

7/22/2016

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# CITY OF **stillwater** STATE OF OKLAHOMA

## PLAN OF PROPOSED RECONSTRUCTION OF **WESTERN ROAD** McELROY ROAD TO LAKEVIEW ROAD CITY OF STILLWATER PROJECT NO. STPW05 PROJECT NO. STP-260B(027)MS STATE JOB NO. 31595(04) **PAYNE COUNTY** GRADE, DRAIN AND SURFACING PLANS

FOR INDEX OF SHEETS  
AND STANDARDS,  
SEE SHEET 2.

CITY OF <b>stillwater</b>						
FILE NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS	DATE	REVISIONS
6	OKLA	31595(04)	16	1		
REVISIONS					DATE	
REVISOR SIGNATURE					T-22-16	



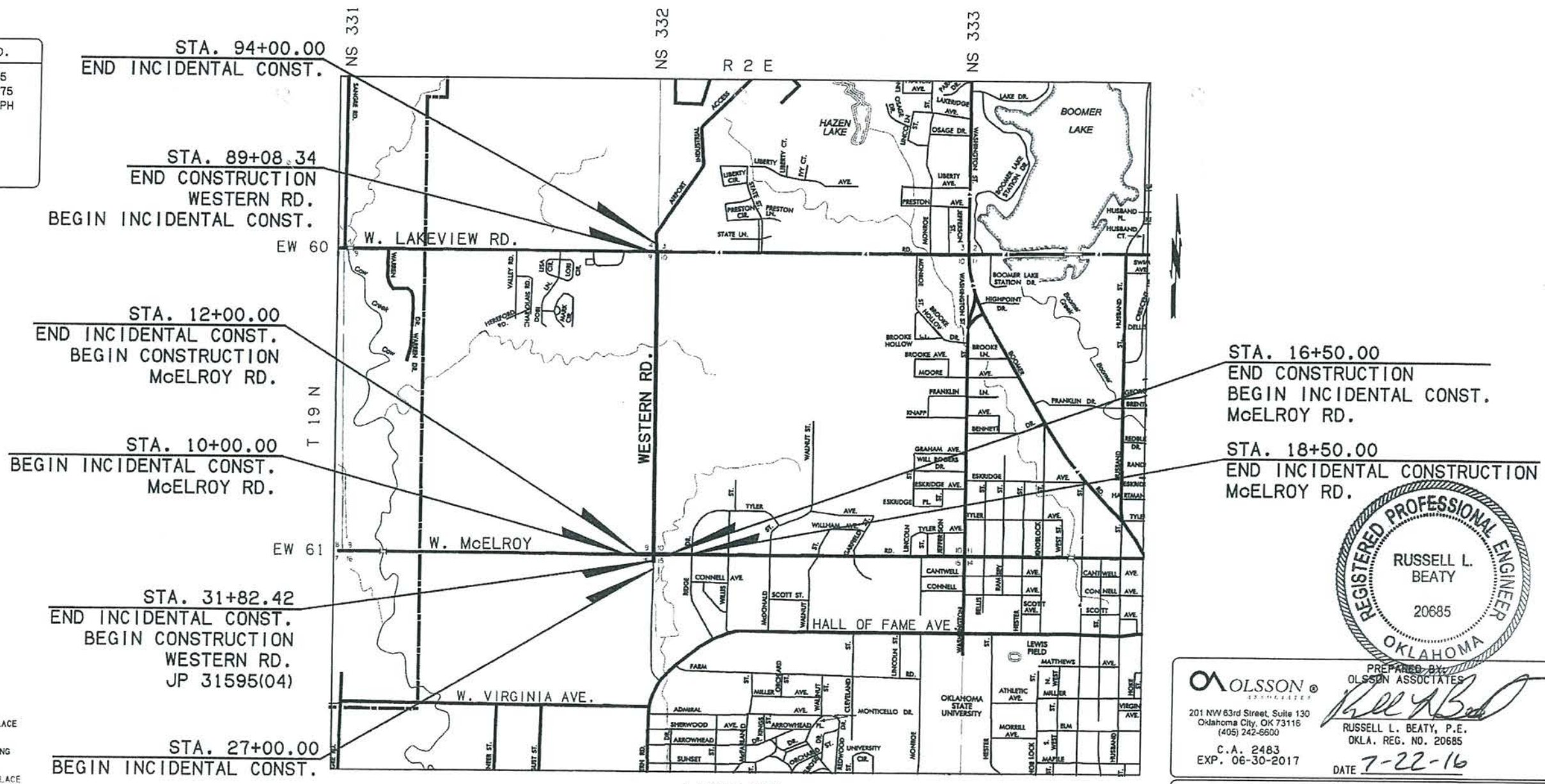
DESIGN DATA: WESTERN RD.	
AADT 2014	= 6,445
AADT 2030	= 11,175
DESIGN SPEED	= 35 MPH
K	= 10%
D	= 61%
T (AADT)	= 4%
T (DHV)	= 2%
T3	= 2%

SCALES

PLAN 1" = 50'  
PROFILE HOR. 1" = 50'  
VER. 1" = 10'  
LAYOUT MAP 1" = 1,000'

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
- OIL WELL
- TELEPHONE UNDERGROUND
- SANITARY SEWER
- GAS LINE
- WATER LINE
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- RIGHT-OF-WAY LINES - EXISTING
- RIGHT-OF-WAY LINES - NEW
- RIGHT-OF-WAY MARKERS - IN PLACE
- RIGHT-OF-WAY MARKERS - REMOVE & REPLACE
- RIGHT-OF-WAY MARKERS - NEW
- CONTROLLED ACCESS
- RIGHT-OF-WAY FENCE



PREPARED BY:  
OLSSON ASSOCIATES  
  
RUSSELL L. BEATY, P.E.  
OKLA. REG. NO. 20685  
C.A. 2483  
EXP. 06-30-2017  
DATE 7-22-16

CITY OF **stillwater**

DATE APPROVED 7-22-16 DATE APPROVED 7-22-16  
BY   
BY   
City of Stillwater, Transportation & Stormwater Services  
S.W.O. Project No. STP-260B(027)MS Sheet No. 1

LAYOUT MAP

ROADWAY LENGTH ----- 6,175.92 FT. 1.170 MI.  
BRIDGE LENGTH ----- 0.0 FT. 0.0 MI.  
PROJECT LENGTH ----- 1.170 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.

CITY OF <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION				REVISION	DATE
ADD SHEET AND STANDARD					8-3-2016

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE
2	INDEX OF SHEETS
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6	GENERAL CONSTRUCTION NOTES
7	ROADWAY PAY QUANTITIES & NOTES
8	TRAFFIC PAY QUANTITIES & NOTES
9-10	SUMMARY OF SHEETS
11-13	SUMMARY OF DRAINAGE STRUCTURES
14	DRAINAGE MAP
15	STORM WATER MANAGENT PLAN
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29	ROADWAY DETAILS
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△ 30A	SIGNAL PLAN
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41-47	SUGGESTED TRAFFIC CONTROL
XS01-XS32	CROSS SECTIONS

ODOT STANDARDS				
ROADWAY	TRAFFIC SIGING	TRAFFIC SIGNAL	TRAFFIC CONTROL	BRIDGE
SSS-1-1	PM1-1-02	△ CFD1-1-01	TCS1-1-01	RCB-C1-6(2-14)-01E
TSC2-3-2	PM3-1-02		TCS2-1-00	
TSD-2-0	PM6-1-00		TCS3-1-01	
TRFD-1-2	RSD1-1-00		TCS4-1-01	
CSCD-5-3	RSD2-1-00		TCS5-1-00	
LECS-4-1	WSD2-1-00		TCS6-1-02	
LTU-4-0	SBS1-1-00		TCS7-1-02	
PR-3-0	SSP1-1-02		TCS8-1-00	
PCPR-3-1	SSA1-1-00		TCS9-1-01	
PSE-1-0			TCS10-1-00	
WCR-3-1			TCS11-1-01	
TWD-1-0			TCS12-1-00	
PCES-4-1			TCS13-1-00	
SMD-3-1			TCS14-1-00	
GPI-4-0			TCS15-1-00	
CI-1-2			TCS19-1-01	
SS-F-4-0			TCS20-1-00	
CIG-3-0			TCS21-1-02	
MFC-4-1			TCS24-1-02	
MJB-3-1			TCS25-1-00	
SPB-1-4				
FHTCP-3-1				
SBI-4-2				
DC-3-2				
PDT-1-3				
RWF2-2-1				

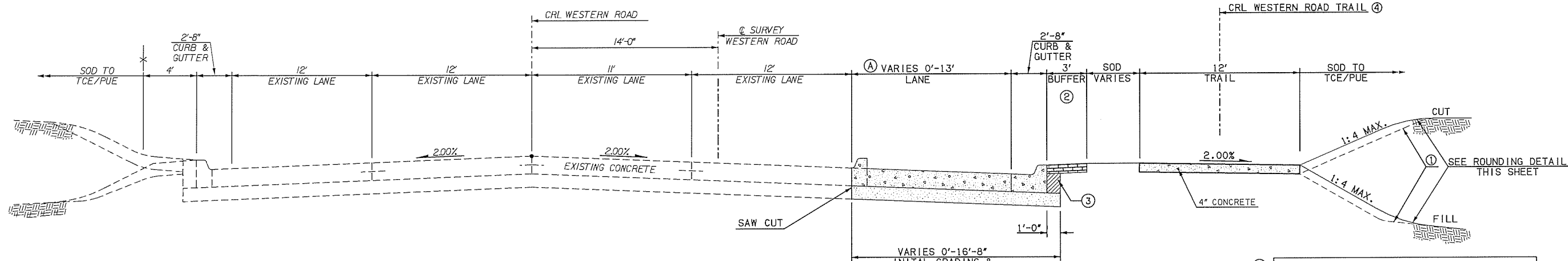


KEARA A. PHILLIPS-BERLIN  
OK PE 25864  
RESPONSIBLE FOR:  
DRAINAGE DETAIL  
SHEETS 34-35



RUSSELL L. BEATY  
OK PE 20685  
RESPONSIBLE FOR:  
ALL OTHER DRAWINGS  
NOT PREVIOUSLY LISTED

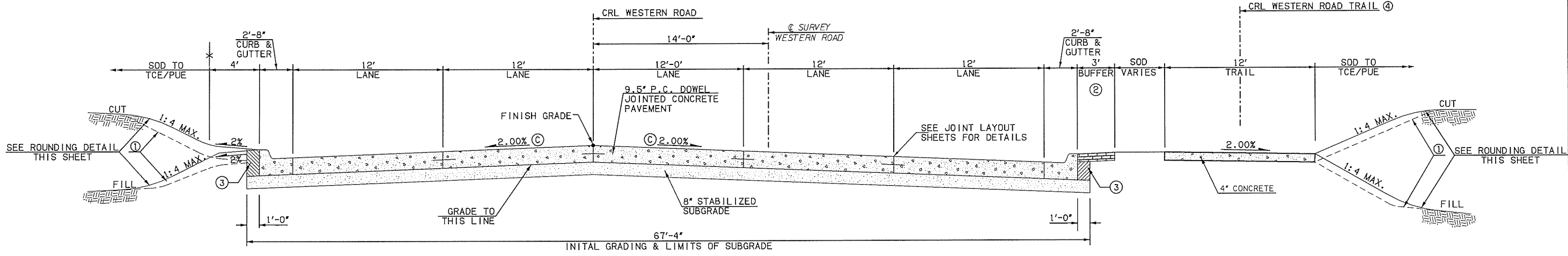
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		INDEX OF SHEETS	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 2



**TYPICAL SECTION NO. 1**  
WESTERN ROAD  
STA. 31+82.42 TO STA. 35+28.84

(A) VARIABLE LANE WIDTH

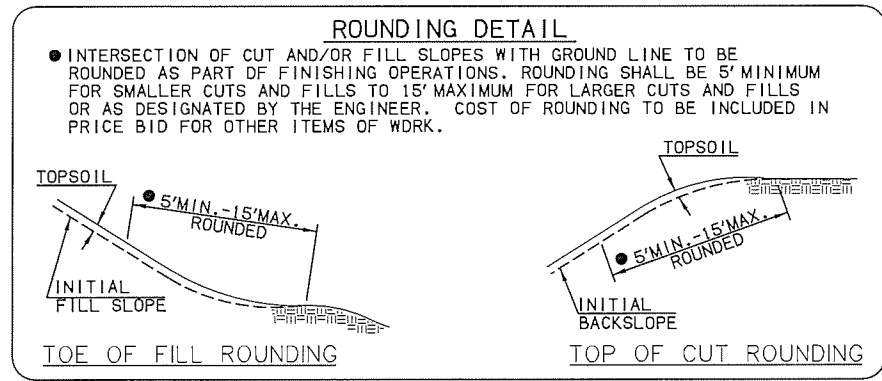
TYPICAL SECTION	SEGMENT	WIDTH	STATION EXTENT
1	A	0'-13'	31+82.42 TO 34+43.36
1	A	13	34+43.36 TO 35+28.84



**TYPICAL SECTION NO. 2**  
WESTERN ROAD  
STA. 35+28.84 TO STA. 40+23.82

(C) VARIABLE PAVEMENT CROSS SLOPE

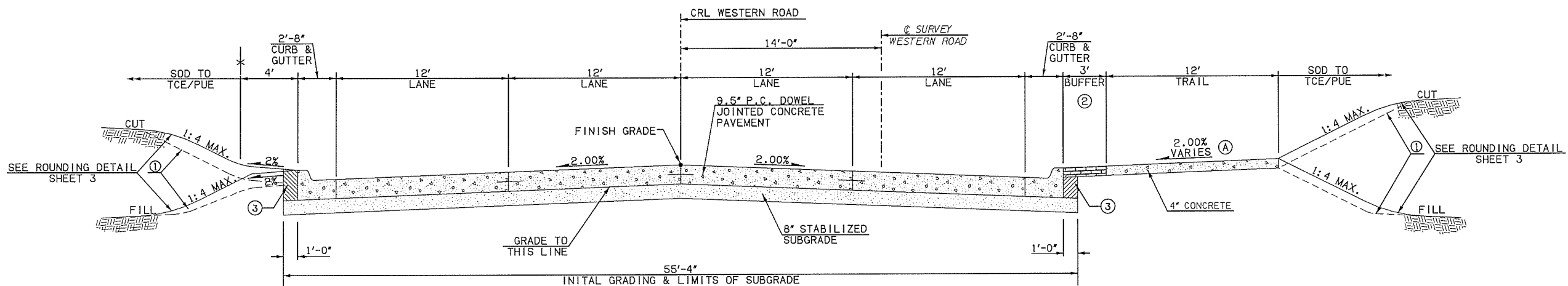
STA. 35+28.84 TO STA. 35+90.00	2.00% TO 1.00%
STA. 35+90.00 TO STA. 36+90.00	1.00%
STA. 36+90.00 TO STA. 37+90.00	1.00% TO 2.00%



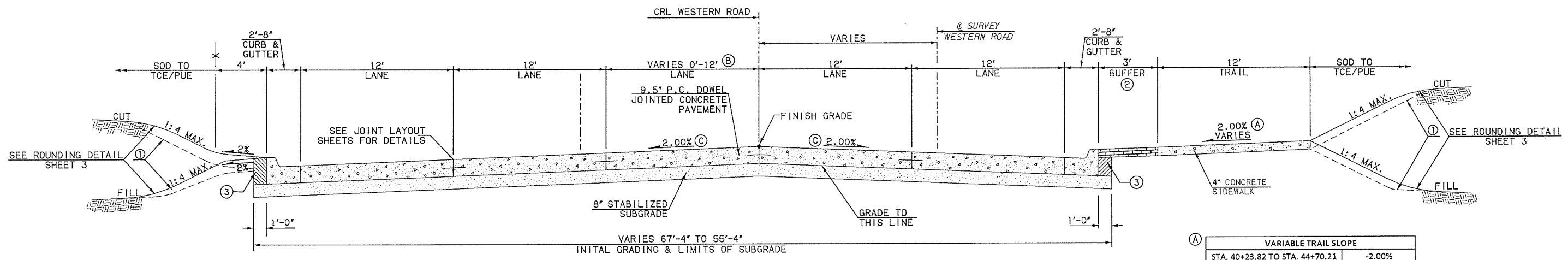
- THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTION AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COST ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.
- SEE STREETScape PLAN FOR DECORATIVE CONCRETE DETAIL.
- THIS AREA TO BE BACKFILLED AND COMPACTED (95% STD. PRDCTOR) AS FINISHING OPERATION. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- SEE SHEET 20 FOR TRAIL ALIGNMENT

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>TYPICAL SECTIONS (1)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
Project No. 31595(04)		Sheet No. 3	





**TYPICAL SECTION NO. 3**  
**WESTERN ROAD**  
 STA. 40+23.82 TO STA. 83+74.21



**TYPICAL SECTION NO. 4**  
**WESTERN ROAD**  
 STA. 83+74.21 TO 89+08.34

(A) VARIABLE TRAIL SLOPE

STA. 40+23.82 TO STA. 44+70.21	-2.00%
STA. 44+70.21 TO STA. 45+00.00	-2.00% TO 2.00%
STA. 45+00.00 TO STA. 53+50.00	2.00%
STA. 53+50.00 TO STA. 54+00.00	2.00% TO -2.00%
STA. 54+00.00 TO STA. 55+50.00	-2.00%
STA. 55+50.00 TO STA. 56+00.00	-2.00% TO 2.00%
STA. 56+00.00 TO STA. 56+50.00	2.00% TO -2.00%
STA. 56+50.00 TO STA. 58+00.00	-2.00%
STA. 58+00.00 TO STA. 58+50.00	-2.00% TO 2.00%
STA. 58+50.00 TO STA. 70+50.00	2.00%
STA. 70+50.00 TO STA. 71+50.00	2.00% TO -2.00%
STA. 71+50.00 TO STA. 79+50.00	-2.00%
STA. 79+50.00 TO STA. 80+00.00	-2.00% TO 2.00%
STA. 80+00.00 TO STA. 89+08.34	2.00%

(B) VARIABLE LANE WIDTH

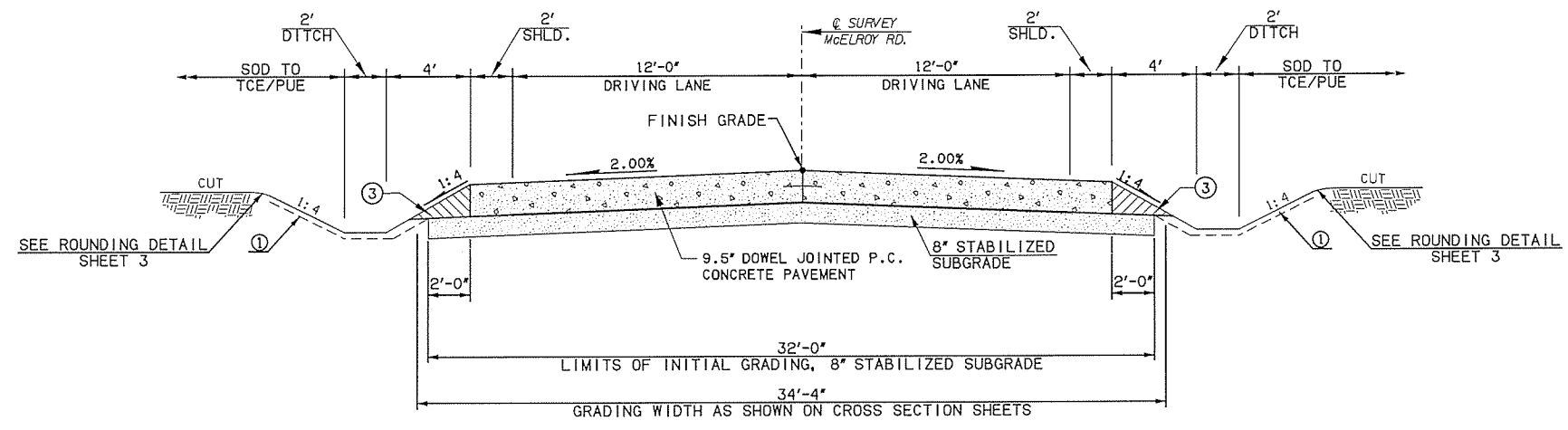
TYPICAL SECTION	SEGMENT	WIDTH	STATION EXTENT
4	B	0'-12'	83+74.21 TO 87+49.35
4	B	12'	87+49.35 TO 89+08.34

- ① 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 SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTION AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COST ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.
- ② SEE STREETScape PLAN FOR DECORATIVE CONCRETE DETAIL.
- ③ THIS AREA TO BE BACKFILLED AND COMPACTED (95% STD. PROCTOR) AS FINISHING OPERATION. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>TYPICAL SECTIONS (2)</b> Project No. 31595(04) Sheet No. 4	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		

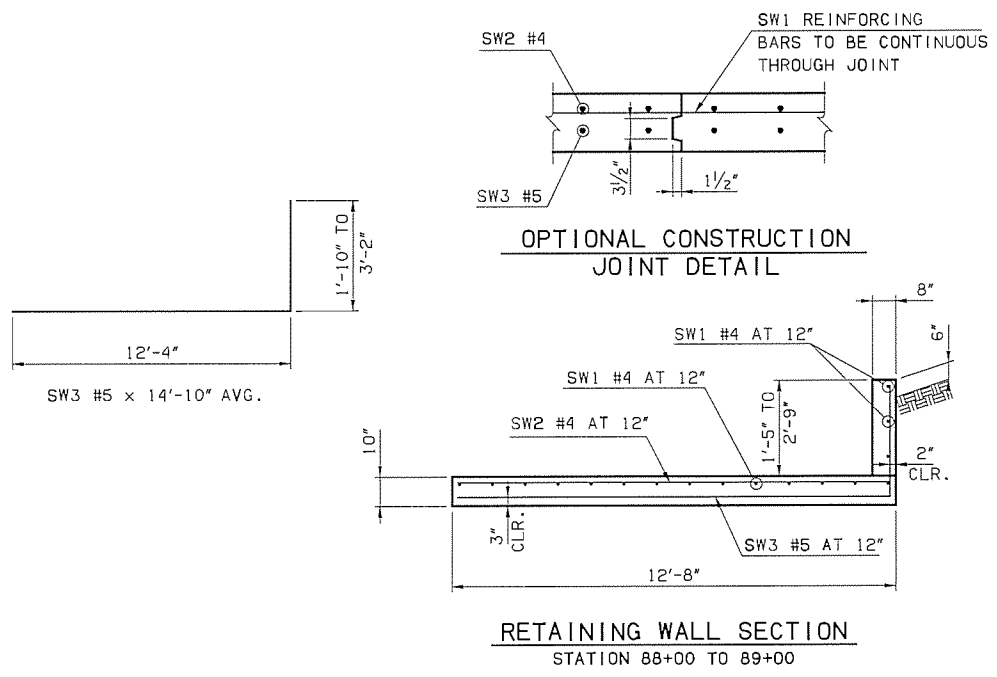


CITY OF <b>stillwater</b>				
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	TOTAL SHEETS
6	OKLA	31595(04)	16	



**TYPICAL SECTION NO. 5**  
**McELROY ROAD**  
 STA. 12+00.00 TO 14+67.14  
 STA. 15+31.14 TO 16+50.00

- ① 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 SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTION AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COST ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.
- ② SEE STREETScape PLAN FOR DECORATIVE CONCRETE DETAIL.
- ③ THIS AREA TO BE BACKFILLED AND COMPACTED (95% STD. PROCTOR) AS FINISHING OPERATION. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.



- NOTES: ① RETAINING WALL HEIGHT SHALL BE 1'-5" BEGINNING AT STA. 88+00.00 AND RISE TO A HEIGHT OF 2'-9" AT STA. 89+00.00.
- ② RETAINING WALL SHALL BE PAID FOR AS SY. OF RETAINING WALL.

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>TYPICAL SECTIONS (2)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 5

**ROADWAY GENERAL CONSTRUCTION NOTES**

**TRAFFIC CONTROL**

MAINTENANCE OF THROUGH TRAFFIC INCLUDES THE MAINTENANCE OF THE EXISTING ROAD IN CLOSE PROXIMITY TO THE NEW CONSTRUCTION AS SHOWN ON THE PLANS.

**GRADING & SITEWORK**

FOR PROJECTS THAT INCLUDE WIDENING AND RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATION, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-1 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY RIGHT-OF-WAY FENCE AS REQUIRED. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED, AND PERMANENT RIGHT-OF-WAY FENCING SHALL BE RESTORED OR INSTALLED IN A MANNER APPROVED BY THE ENGINEER. ALL COST OF TEMPORARY FENCING SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

**EROSION CONTROL**

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 POUNDS PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.

AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEEDED, SODDED, OR SPRIGGED.

PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

**TRAFFIC OPERATIONS GENERAL CONSTRUCTION NOTES**

ANY SIGNS AND/OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE RESIDENT ENGINEER, UNTIL SUCH A TIME THAT THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK TO BE INCLUDED IN OTHER ITEMS OF WORK.

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

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET O.D.O.T.'S QUALITY STANDARD FOR TEMPORARY TRAFFIC CONTROL DEVICES AND SHALL BE IN A "LIKE NEW" CONDITION.

**TRAFFIC SIGNING GENERAL CONSTRUCTION NOTES**

REMOVED MATERIAL TO BECOME PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

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

ALL WARNING SIGNS SHALL HAVE FLUORESCENT YELLOW SHEETING. THE FLUORESCENT YELLOW SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) FOR TYPE III SHEETING.

ALL REGULATORY SIGNS SHALL HAVE HIGH INTENSITY SHEETING. THE HIGH INTENSITY SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST EDITION) FOR TYPE III SHEETING.

ALL PANEL AND OVERHEAD SIGNS SHALL HAVE TYPE III HIGH INTENSITY BACKGROUND WITH TYPE VIII LEGENDS AND BORDERS. THE TYPE III BACKGROUND AND THE TYPE VIII LEGENDS AND BORDERS SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION).

THE MANUFACTURER SHALL FURNISH A TYPE 'A' CERTIFICATION IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS, LATEST EDITION, AND SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON THE MATERIAL SUBMITTED FOR APPROVAL.

ALL BROKEN CONCRETE INCLUDING OLD SIGN FOOTINGS WITH STUBS, WASTE MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THE DISPOSAL OF THIS MATERIAL. ANY PIPE POST OR WIDE FLANGE POST ABOVE THE OLD SIGN FOOTINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT.

NO SPLICES SHALL BE PERMITTED IN ANY PIPE OR WIDE FLANGE SIGN PDSTS.

ALL ANCHOR BOLTS SHALL BE GRADE A-36 STEEL.

THE STATION AND LOCATIONS OF THE SIGN PLACEMENT, AS SHOWN ON THE PLAN SHEETS, ARE APPROXIMATE. EXACT STATIONS AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH DEPARTMENT STANDARDS AND THE MUTCD 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.

POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE, EXACT LENGTH SHALL BE DETERMINED BY FIELD SURVEY BY THE CONTRACTOR.

THE COST OF REPLACEMENT OF MISSING OR DAMAGED EDGE STRIP ON EXISTING SIGNS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ALL EXISTING AND NEW BREAKAWAY SIGN POSTS, PIPES AND WIDE FLANGE BEAMS SHALL HAVE SHEET METAL BOLD RETAINER PLATES AS SPECIFIED IN ODOT STD. FGS1-1-(LATEST REVISION). REPLACEMENT COST OF MISSING OR DAMAGED BOLD RETAINER PLATES AND ALL ASSOCIATED HARDWARE AND LABOR SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ALL REMOVED SIGNS, SIGN POSTS, BOLTS, MISCELLANEOUS HARDWARE, AND DELINEATORS SHALL REMAIN THE PROPERTY OF THE CITY OF STILLWATER. THE CONTRACTOR SHALL NEATLY STACK SUCH REMOVED MATERIAL AT A LOCATION ON THE JOB SITE AS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME AS DIVISION PERSONNEL CAN REMOVE THE MATERIAL FROM THE JOB SITE.

ALL SIGNS SHALL BE REMOVED FROM THE POSTS IN A SALVAGEABLE MANNER FOR REUSE. CARE SHALL BE TAKEN DURING REMOVAL AND TRANSPORTING TO ALLEVIATE DAMAGE OF MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING REMOVAL OF SIGNS AND SIGN POSTS.

AFTER REMOVAL OF ANY SIGN FOOTINGS, THE HOLES SHALL BE FILLED WITH SOIL AND TAMPED AND SHAPED IN A MANNER APPROVED BY THE ENGINEER.

FOR NEW OR EXISTING GROUND MOUNTED SIGNS, MAXIMUM STUB POST PROJECTION ABOVE FOOTING/GROUND LINE SHALL BE 1-3/4" +/- 1/4". MAXIMUM FOOTING PROJECTION ABOVE GROUND LINE SHALL BE NO MORE THAN 2". SHOULD ADDITIONAL SOIL BE REQUIRED, THE ENGINEER WILL DESIGNATE AN AREA TO OBTAIN ADDITIONAL SOIL. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

CITY OF <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		

**GENERAL CONSTRUCTION NOTES - UTILITIES**

ALL WORK AND /OR MATERIALS NOT CLASSIFIED AS A "CONTRACT PAY ITEM" SHALL BE CONSIDERED INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

NO PAYMENT WILL BE MADE FOR THE REMOVAL OF ABANDONED UTILITY PIPELINES THAT INTERFERE WITH CONSTRUCTION. ALL COSTS TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE/ SHE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:  
THE "OKIE" NOTIFICATION CENTER (405)840-5032  
OR 1-800-522-6543  
THE LOCAL COUNTY CLERK'S OFFICE.

DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

FIBER LINE SHOWN ON PLANS AT STA. 15+84.39 SHALL NOT BE DISTURBED AND SHALL BE PROTECTED DURING PROJECT.

**ENVIRONMENTAL MITIGATION NOTES**

CLIFF SWALLOWS AND BARN SWALLOWS ARE SMALL COLONIAL NESTING BIRDS PROTECTED BY THE FEDERAL MIGRATORY BIRD TREATY ACT. THESE SPECIES COMMONLY USE BRIDGES AND CULVERTS FOR NESTING. THE NESTING SEASON FOR THE SWALLOWS RUNS FROM APRIL 1 TO AUGUST 31. ANY ACTIVITIES WHICH WOULD DESTROY ACTIVE NESTS OR HARM EGGS OR BIRDS WOULD VIOLATE THE MIGRATORY BIRD TREATY ACT. SWALLOW USE OF BRIDGE AT STA. 73+00 WAS NOT OBSERVED DURING THE INITIAL SURVEYS CONDUCTED AS PART OF THE BIOLOGICAL STUDIES IN 2015. SWALLOWS MAY OCCUPY THE BRIDGE IN THE FUTURE NESTING SEASONS. THE RESIDENT ENGINEER WILL EVALUATE THE CONTRACTOR'S PROPOSED WORK METHODS AND CONCLUDE WHETHER THE PROPOSED WORK WOULD POSE DISRUPTION TO ANY NESTING BIRDS BEFORE WORK NEAR THE STRUCTURE IS AUTHORIZED. IF THE PROPOSED WORK WILL HARM ANY NESTING BIRDS, THE BRIDGE MAY BE NETTED PRIOR TO APRIL 1 OR THE WORK DELAYED UNTIL THE NESTING SEASON IS COMPLETE. METHODS OTHER THAN NETTING MUST BE PRE-APPROVED BY THE ODOT BIOLOGIST.

Design			WESTERN ROAD	PAYNE COUNTY
Drawn			<b>GENERAL CONSTRUCTION NOTES</b>	
Checked				
Approved				
Squad	OLSSON ASSOCIATES		Project No. 31595(04)	Sheet No. 6

CITY OF <b>stillwater</b>					
PROJ NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISIONS	DATE	
REVISED PAY ITEMS			8-3-2016		

ROADWAY PAY ITEMS					
ITEM NO.	CODE NO.	ITEM DESCRIPTION	NOTES	UNIT	QUANTITY
201(A)	0102	CLEARING AND GRUBBING		LSUM	1.00
202(A)	0183	UNCLASSIFIED EXCAVATION	(R-1)	CY	14,909.00
202(D)	0184	UNCLASSIFIED BORROW	(R-4)	CY	5,998.00
205(A)	4229	TYPE A-SALVAGED TOPSOIL	(R-5)(R-15)(1)(2)	LSUM	1.00
221(C)	2801	TEMPORARY SILT FENCE	(4)(7)	LF	5,913.00
221(D)	2803	TEMPORARY SEDIMENT FILTER	(4)(7)	EA	24.00
221(F)	0100	TEMPORARY SILT DIKE	(4)(7)	LF	140.00
221(G)	0150	TEMPORARY ROCK FILTER DAM TYPE 1		CY	8.84
230(A)	2806	SOLID SLAB SODDING	(R-7)(R-8)	SY	18,215.47
241	2832	MOWING	(R-16)	AC	10.00
307(K)	4300	STABILIZED SUBGRADE	(15)	SY	35,744.95
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE E	(R-25)(16)	TON	100.00
414(B)	5725	DOWEL JOINTED P.C. CONCRETE PAVEMENT(PLACEMENT)		SY	30,824.73
414(G)	5275	P.C. CONCRETE FOR PAVEMENT	(8)	CY	8,160.89
501(A)	0313	STRUCTURAL EXCAVATION UNCLASSIFIED		CY	68.38
509(A)	0319	CLASS AA CONCRETE	(R-1)	CY	130.60
509(D)	0325	CLASS C CONCRETE	(R-41)	CY	64.25
510(A)	6333	RETAINING WALL		SY	208.34
511(A)	0332	REINFORCING STEEL	(R-1)	LB	14,223.00
601(A)	0297	TYPE I PLAIN RIPRAP		TON	114.57
609(B)	1525	2'-8" COMB. CURB & GUTTER (6" BARRIER)		LF	11,204.00
610(A)	0602	4" CONCRETE SIDEWALK	(9)	SY	7,147.17
610(B)	0604	6" CONCRETE DRIVEWAY	(10)	SY	1,423.42
610(C)	5824	DECORATIVE MEDIAN CONCRETE	(14)	SY	1,716.00
611(A)	2657	MANHOLE (4' DIAMETER)		EA	9.00
611(A)	2658	MANHOLE (5' DIAMETER)		EA	4.00
611(B)	2680	ADD'L DEPTH IN MANHOLE (4' DIAMETER)		VF	3.96
611(B)	2681	ADD'L DEPTH IN MANHOLE (5' DIAMETER)		VF	4.66
611(G)	5112	INLET CI DES. 2 (STD)	(R-44)	EA	1.00
611(G)	5113	INLET CI DES. 2 (B)	(R-44)	EA	2.00
611(G)	5115	INLET CI DES. 2 (D)	(R-44)	EA	12.00
611(G)	5117	INLET CI DES. 2 (2B)	(R-44)	EA	2.00
611(G)	5120	INLET CI DES. 3 (STD)	(R-44)	EA	1.00
611(G)	5121	INLET CI DES. 3 (B)	(R-44)	EA	2.00
611(G)	5123	INLET CI DES. 3 (2B)	(R-44)	EA	1.00
611(G)	5334	INLET GPI TYPE 2 (DES. 8)		EA	1.00
611(G)	5336	INLET GPI TYPE 2 (DES. 10)		EA	1.00
611(G)	6000	INLET (SMD-TYPE 1)		EA	1.00
611(H)	5325	ADD'L DEPTH IN INLET CI DES. 2		VF	35.25
611(H)	5330	ADD'L DEPTH IN INLET CI DES. 3		VF	4.88
613(A)	0491	18" R.C.P.IPE CLASS III	(11)	LF	1,108.00
613(A)	0492	24" R.C.P.IPE CLASS III	(11)	LF	1,624.00
613(A)	0493	30" R.C.P.IPE CLASS III	(11)	LF	918.00
613(A)	0494	36" R.C.P.IPE CLASS III	(11)	LF	186.00
613(A)	4500	58" X 36" R.C.P.IPE ARCH CLASS A-III	(11)	LF	106.00
613(L)	4546	58" X 36" PREFAB. CULVERT END SECTION, ARCH		EA	1.00
613(L)	5726	18" PREFAB. CULVERT END SECTION, ROUND		EA	1.00
613(L)	5732	30" PREFAB. CULVERT END SECTION, ROUND		EA	1.00
613(L)	5734	36" PREFAB. CULVERT END SECTION, ROUND		EA	2.00
619(A)	0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(R-48)(R-49)(5)	LSUM	1.00
619(B)	4727	REMOVAL OF CONCRETE PAVEMENT	(R-49)(R-50)(12)	SY	457.00
619(B)	4728	REMOVAL OF ASPHALT PAVEMENT	(R-49)(R-50)(12)	SY	16,646.00
619(C)	0924	SAWING PAVEMENT		LF	458.00
622(A)	4445	2" PIPE RAILING		LF	52.00
624(C)	4459	FENCE-STYLE SWF (5 BARBED WIRE)	(R-52)(R-53)(13)	LF	7,036.00

STAKING PAY ITEMS					
ITEM NO.	CODE NO.	ITEM DESCRIPTION	NOTES	UNIT	QUANTITY
642(B)	0096	CONSTRUCTION STAKING LEVEL II	(6)	LSUM	1.00

CONSTRUCTION PAY ITEMS					
ITEM NO.	CODE NO.	ITEM DESCRIPTION	NOTES	UNIT	QUANTITY
0640 CONSTRUCTION					
220	2800	SWPPP DOCUMENTATION AND MANAGEMENT		LSUM	1.00
641	1552	MOBILIZATION		LSUM	1.00

PAY QUANTITY NOTES (ROADWAY)

- (R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.
- (R-4) INCLUDES 1,000 CU. YDS. FOR DRIVEWAYS, RETURNS, DIKES, AND MISCELLANEOUS EARTHWORK.
- (R-5) AN ESTIMATED QUANTITY OF 6942 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.
- (R-7) PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 POUNDS PER 1000 SQ. YD.
- (R-8) PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 80 GALLONS PER SY.
- (R-15) ESTIMATED AT 150 POUNDS OF 18-46-0 FERTILIZER PER ACRE OF AREA ON WHICH TOPSOIL IS TO BE REPLACED.
- (R-16) QUANTITY BASED ON TWO APPLICATIONS.
- (R-25) ESTIMATED AT 120 LBS. PER CU. FT.
- (R-41) QUANTITY INCLUDES AN ESTIMATED 50 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- (R-44) PRICE BID TO INCLUDE COST OF 118 - 6" BARRIER CURB HOODS.
- (R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
- (R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
- (R-50) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
- (R-52) INCLUDES 2% FOR GROUND MEASUREMENT.
- (R-53) ALL GATES AND GATE END POSTS FOR STRANDED WIRE FENCE (SWF) SHALL BE CONSTRUCTED AT THE SAME WIDTH AS THE EXISTING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

1 THE CONTRACTOR SHALL STRIP ALL AVAILABLE TOPSOIL IN THE LIMITS OF THE CONSTRUCTION, APPROXIMATELY 5 INCHES DEEP. STOCKPILE THE MATERIAL AND REPLACE THE TOPSOIL ON THE FINISHED SLOPES OF THE GRADING SECTION. ALL ADDITIONAL COSTS NOT COVERED IN OTHER ITEMS SHALL BE INCLUDED IN THE LUMP SUM TOPSOIL ITEM AS FOLLOWS:

EXCAVATION SECTIONS:  
CONTRACTORS ARE TO INCLUDE ANY ADDITIONAL COSTS TO REMOVE, STOCKPILE, AND REPLACE THE MATERIAL ON THE FINISHED GRADING SLOPES IN THE LUMP SUM TOPSOIL ITEM.

EMBANKMENT SECTIONS:  
DETERMINE THE AMOUNT OF TOPSOIL IN THESE AREAS AND INCLUDE ALL COSTS TO REMOVE, STOCKPILE, AND REPLACE THE MATERIAL IN THE LUMP SUM TOPSOIL ITEM.

2 TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS ARE TO BE STABILIZED WITH TEMPORARY SEEDING AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THE AREA. PRIOR TO SEEDING, (10-20-10) FERTILIZER SHALL BE APPLIED TO ALL AREAS TO BE STABILIZED. TO BE INCLUDED IN PRICE BID FOR TYPE A SALVAGED TOPSOIL.

PAY QUANTITY NOTES (ROADWAY) CONT...

- 4 ESTIMATED QUANTITY TO BE USED IN A MANNER AND LOCATION TO BE DETERMINED BY THE ENGINEER.
- 5 PRICE BID FOR "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" SHALL INCLUDE COST OF REMOVING FOUNDATIONS, PARKING AREAS, CONCRETE FLOORS, HEADWALLS, EXISTING STORM SEWERS AND APPURTENANCES, EXISTING WATER AND SEWER LINES AND APPURTENANCES, CONCRETE DITCH LINER, DEBRIS, SHEDS, FENCES, POLES, SIGNS AND OTHER ITEMS NOT SPECIFICALLY PAID FOR AS REMOVAL ITEMS BUT EXIST IN THE RIGHT-OF-WAY OF THE PROJECT.
- 6 PRICE BID SHALL INCLUDE ALL STAKING FOR ROADWAY AND SIGNALS. SEE 2009 ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 642 PARAGRAPH (B) FOR CONTRACTOR RESPONSIBILITIES.
- 7 EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS TO INCLUDE REMOVAL OF ACCUMULATED SILT SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE.
- 8 CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO EXPEDITE CONSTRUCTION TIME. THE DEPARTMENT WILL NOT PAY FOR SUBSTITUTIONS OF HIGH EARLY-STRENGTH CONCRETE FOR STANDARD PCC (SEE SECTION 414.06 OF 2009 ODOT STANDARD SPECIFICATIONS). CONTRACTOR SHALL ADJUST PRICE BID FOR AFFECTED ITEMS ACCORDINGLY.
- 9 COST TO INCLUDE ALL MATERIALS AND WORK TO INSTALL TACTILE WARNING DEVICES AND SAFETY BOLLARDS IN ACCORDANCE WITH THE LATEST ODOT STANDARD, ESTIMATED AT 462 SF AND 3 EACH, RESPECTIVELY. PRICE BID ALSO TO INCLUDE THE COST OF SIDEWALK CURB TRANSITIONS AS SHOWN IN THE PLANS.
- 10 PRICE BID SHALL INCLUDE THE COST OF DRIVEWAY CURB TRANSITIONS AS SHOWN IN THE PLANS.
- 11 PRICE BID TO INCLUDE COST OF TRENCH EXCAVATION AND STANDARD BEDDING MATERIAL AS SHOWN ON THE SUMMARY OF DRAINAGE STRUCTURES.
- 12 ITEM SHALL INCLUDE SAWCUT REQUIRED FOR REMOVAL, AND SHALL INCLUDE THE COST TO REMOVE AN ESTIMATED 187 LF OF CURB AND GUTTER.
- 13 FENCE SHALL BE A 5 WIRE FENCE THAT IS 54' FROM THE GROUND TO THE TOP WIRE. THE SPACING OF THE WIRE SHALL BE 11 INCHES AND WIRES SHALL BE ON THE INSIDE OF THE POSTS. T-POSTS SHALL BE 1.33 GAUGE AND A 5.25"x8" CREOSOTE POST SHALL BE PLACED EVERY 5 T-POSTS FOR FENCE STABILITY. WIRE SHALL BE SHEFFIELD, BEKAERT OR RED BRAND WIRE OR APPROVED EQUAL. T-POST PAINT COLOR SHALL BE APPROVED BY THE ENGINEER AND SHALL BE APPLIED PRIOR TO THE WIRE GOING ON.
- 14 PAY ITEM INCLUDES COST OF STAMP AND COLOR.
- 15 "STABILIZED SUBGRADE" SHALL INCLUDE THE COST OF THE CHEMICAL ADDITIVE TO ACHIEVE THE RATE SPECIFIED FOR THE APPROPRIATE SOIL CLASSIFICATION AS SPECIFIED IN THE MOST CURRENT ODOT MATERIALS DIVISION OHD L-50. CONTRACTOR SHALL MAINTAIN ACCESS TO AT LEAST ONE DRIVEWAY AT EVERY PROPERTY DURING CONSTRUCTION.
- 16 ESTIMATED QUANTITY TO BE USED IN A MANNER AND LOCATION TO BE DETERMINED BY THE ENGINEER.

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		ROADWAY PAY QUANTITIES & NOTES	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 7



TRAFFIC SIGNING & STRIPING PAY QUANTITY NOTES

- (TS-15) QUANTITY SHOWN INCLUDES 1,295 L.F. TRAFFIC STRIPE (PAINT)(WHITE) AND 1,295 L.F. TRAFFIC STRIPE (PAINT)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE
(TS-19) QUANTITY SHOWN INCLUDES 3,230 L.F. TRAFFIC STRIPE (PLASTIC)(WHITE) AND 13,505 L.F. TRAFFIC STRIPE(PLASTIC)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE.
(TS-21) QUANTITY SHOWN INCLUDES 580 L.F. TRAFFIC STRIPE (PLASTIC)(WHITE) AND 0 L.F. TRAFFIC STRIPE(PLASTIC)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT INCH (8") WIDE TRAFFIC STRIPE.
(TS-23) QUANTITY SHOWN INCLUDES 189 L.F. TRAFFIC STRIPE (PLASTIC)(WHITE) AND WILL BE MEASURED BY THE LINEAR FOOT OF TWENTY-FOUR INCH (24") WIDE TRAFFIC STRIPE.
(TS-33) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1-(LATEST REVISION).
(TS-34) INCLUDED IN THIS PAY ITEM IS THE REMOVAL OF ANY EXISTING SIGNS TO BE REPLACED BY NEW ASSEMBLIES AND THE REMOVAL OF ANY EXISTING SIGNS THAT WILL BE IN CONFLICT WITH THE NEW ROADWAY OR NEW SIGNAGE.
(TS-41) \*REMOVAL OF EXISTING SIGNS\* SHALL INCLUDE THE REMOVAL OF A COMPLETE SIGN ASSEMBLY WHICH MAY INCLUDE MULTIPLE SIGNS, POSTS, FOOTINGS, AND ANY FOOTINGS ADJACENT TO THE SIGN ASSEMBLY. WHEN APPROVED BY THE ENGINEER, FOOTINGS MAY BE OBLITERATED TO A POINT BELOW GROUND LEVEL IN LIEU OF BEING COMPLETELY REMOVED. SEE GENERAL CONSTRUCTION NOTES FOR DISPOSAL OF OLD CONCRETE FOOTING MATERIAL.

TRAFFIC CONTROL PAY QUANTITY NOTES

- (TC-1) THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PRECAST CONCRETE MEDIAN BARRIER.
(TC-2) QUANTITY INCLUDES SUFFICIENT LENGTH OF MEDIAN BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THIS SAME BARRIER WILL BE USED ON OTHER DETOUR PHASES.
(TC-14) SEE STANDARD DRAWING PM1-1 AND PM4-1 (LATEST REVISION). A PART, OR ALL, OF THE QUANTITY SHOWN IS TO BE USED AS FINAL PAVEMENT MARKING.
(TC-17) INCLUDES AN ESTIMATED 4,500 L.F. (PAINT)(4" WIDE) WHITE AND 5,000 L.F. (PAINT)(4" WIDE) YELLOW STRIPE.
(TC-20) ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. TEMPORARY PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT OR EXISTING PAVEMENT TO REMAIN IN PLACE SHALL USE ONE OF THE FOLLOWING METHODS:
• REMOVABLE PAVEMENT MARKING TAPE
• CLASS A PAVEMENT MARKERS
(TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS AND SYMBOLS, AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON REMOVABLE MARKING TAPE.
(TC-26) CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.
ALL SIGNS, BARRICADES, AND CHANNELIZING DEVICES WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
(TC-28) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 0.00 S.F. AND 6.25 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS
(TC-29) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 6.26 S.F. AND 15.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
(TC-30) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.

TRAFFIC CONTROL PAY QUANTITY NOTES (CONT.)

- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS AND CHANNELIZING DEVICES SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM 4956-07 FOR TYPE VIII SHEETING.
THE MANUFACTURER SHALL FURNISH A TYPE 'A' CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.
(TC-52) ANY USED CONSTRUCTION ZONE IMPACT ATTENUATOR OR PORTABLE CHANGEABLE MESSAGE SIGN TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT. THESE DEVICES SHALL MEET ALL NCHRP-350, TL-3 CRITERIA.
\* CHANGEABLE MESSAGE SIGN (EXEMPT FROM NCHRP-350 REQUIREMENT)
(TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
(TC-75) TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING.
(TC-84) 165 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
(TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT: http://www.okladot.state.ok.us/traffic/qpl/Index.php

TRAFFIC SIGNING & STRIPING PAY QUANTITY NOTES

- 1 PRICE BID SHALL INCLUDE COST TO REMOVE AND RELOCATE EXISTING TRAFFIC SIGNAL, INCLUDING FOOTING AND NECESSARY CONDUIT.

SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 1:

CONSTRUCT THE NEW NORTHBOUND AND SOUTHBOUND LANES OF WESTERN ROAD FROM STA. 35+28.94 TO STA. 46+00. ALSO CONSTRUCT BOTH EASTBOUND AND WESTBOUND LANES OF WEST MCELROY ROAD FROM STA. 12+00 TO STA. 16+50.

DURING CONSTRUCTION: TRAFFIC ON WESTERN ROAD AND MCELROY ROAD WILL BE DETOURED AROUND THE WORK AREA AS SHOWN IN THE PLANS.

PHASE 2:

CONSTRUCT THE NEW SOUTHBOUND LANES OF WESTERN ROAD FROM STA. 46+00 TO STA. 88+72.90.

DURING CONSTRUCTION: TRAFFIC ON WESTERN ROAD WILL REMAIN ON THE EXISTING LANES SEPARATED FROM THE WORK AREA BY PORTABLE LONGITUDINAL BARRIER.

PHASE 3:

CONSTRUCT THE NEW NORTHBOUND LANES OF WESTERN ROAD FROM STA. 46+00 TO STA. 88+72.90.

DURING CONSTRUCTION: NORTHBOUND AND SOUTHBOUND TRAFFIC ON WESTERN ROAD WILL BE RELOCATED TO THE NEW SOUTHBOUND LANES SEPARATED FROM THE WORK AREA BY PORTABLE LONGITUDINAL BARRIER.

CITY OF stillwater
REVISED PAY ITEMS 8-3-2016

TRAFFIC CONTROL PAY ITEMS
ITEM NO. CODE NO. ITEM DESCRIPTION NOTES UNIT QUANTITY
857(A) 8839 CONSTRUCTION TRAFFIC STRIPE(PAINT)(4" WIDE) (TC-17)(TC-20)(TC-75) LF 9,500.00
857(F) 8006 PAVEMENT MARKING REMOVAL(TRAFFIC STRIPE) (TC-22)(TC-70)(TC-75) LF 5,000.00
871(B) 8705 (SP)CONST.ZONE IMPACT ATTEN. (TC-52)(TC-84)(TC-70) SD 165.00
877(B) 8484 DELIVER PORTABLE LONGITUDINAL BARRIER (TC-1)(TC-2) LF 5,000.00
877(C) 8486 RELOCATION OF PORTABLE LONGITUDINAL BARRIER (TC-1) LF 4,750.00
880(B) 8818 CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26)(TC-28)(TC-33)(TC-84) SD 1,850.00
880(B) 8821 CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF (TC-26)(TC-29)(TC-33)(TC-84) SD 3,795.00
880(B) 8824 CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF (TC-26)(TC-30)(TC-33)(TC-84) SD 2,475.00
880(C) 8842 CONSTRUCTION BARRICADES(TYPE III) (TC-26)(TC-84) SD 3,960.00
880(C) 8848 WING BARRICADES (TC-26)(TC-84) SD 1,980.00
880(E) 8860 WARNING LIGHTS(TYPE A) (TC-26)(TC-84) SD 10,395.00
880(F) 8878 DRUMS (TC-26)(TC-33)(TC-84) SD 5,445.00
882(A) 8306 PORT.CHANGEABLE MESSAGE SIGN (TC-52)(TC-84)(TC-85) SD 330.00

TRAFFIC SIGNING & STRIPING PAY ITEMS
ITEM NO. CODE NO. ITEM DESCRIPTION NOTES UNIT QUANTITY
805(A) 8722 (PL) REMOVAL OF EXISTING SIGNS (TS-41) LSUM 1.00
850(A) 8110 SHEET ALUMINUM SIGNS (TS-34) SF 158.34
851(C) 8324 2" SQUARE TUBE POST (TS-33) LF 274.00
854(A) 8800 TRAFFIC STRIPE(PAINT)(4" WIDE) (TS-15) LF 2,590.00
855(A) 8812 TRAFFIC STRIPE(PLASTIC)(4" WIDE) (TC-14)(TS-19) LF 16,735.00
855(A) 8814 TRAFFIC STRIPE(PLASTIC)(8" WIDE) (TC-14)(TS-21) LF 580.00
855(A) 8825 TRAFFIC STRIPE(PLASTIC)(24" WIDE) (TC-14)(TS-23) LF 189.00
855(B) 8818 TRAFFIC STRIPE(PLASTIC)(ARROWS) (TC-14) EA 8.00
857(F) 8820 PAVEMENT MARKING REMOVAL (HYDROBLASTING) LF 6,085.00

TRAFFIC SIGNAL PAY ITEMS
0330 TRAFFIC SIGNAL
ITEM NO. CODE NO. ITEM DESCRIPTION NOTES UNIT QUANTITY
803 (A) 8060 PULL BOX EA 1.00
804(A) 2915 STRUCTURAL CONCRETE CY 2.70
804(B) 2916 REINFORCING STEEL LB 416.30
805 (D) 8742 (PL)REMOVE & RESET TRAFFIC SIGNAL EQUIPMENT (1) LSUM 1.00
850(C) 8118 MAST ARM MOUNTED SIGNS(ALUMINUM) SF 7.50

Design Drawn Checked Approved Squad OLSSON ASSOCIATES
WESTERN ROAD PAYNE COUNTY
TRAFFIC PAY QUANTITIES & NOTES
Project No. 31595(04) Sheet No. 8

CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISIONS	DATE	
REVISED DRIVE				8-3-2016	

SUMMARY OF SURFACING								
PLAN SHEET NO.	STATION TO STATION	ALIGNMENT	STABILIZED SUBGRADE	DOWEL JOINTED P.C.C. PAVT. (PLACEMENT)	P.C. CONCRETE FOR PAVEMENT	2'-8" COMB. CURB & GUTTER (6" BARRIER)	4" CONCRETE SIDEWALK	
			307(K) SY	414(B) SY	414(G) CY	609(B) LF	610(A) SY	
WESTERN RD.								
22	31+82.42 TO 36+26.12	CRL WESTERN RD.	1173.74	900.58	237.65	575.95	585.77	
23	36+26.12 TO 38+00.00	CRL WESTERN RD.	1138.61	935.61	246.90	325.77	332.41	
24	38+00.00 TO 53+00.00	CRL WESTERN RD.	9361.66	8139.03	2147.80	3000.00	1721.76	
25	53+00.00 TO 68+00.00	CRL WESTERN RD.	9222.22	8000.00	2111.11	3000.00	1889.50	
26	68+00.00 TO 83+00.00	CRL WESTERN RD.	9222.22	8000.00	2111.11	3000.00	1925.77	
27	83+00.00 TO 89+08.34	CRL WESTERN RD.	4254.06	3748.62	989.22	1302.28	691.96	
McELROY RD.								
28	12+00.00 TO 14+67.14	CL SURVEY McELROY RD.	949.83	831.10	219.32	0.00	0.00	
	15+31.14 TO 16+50.00	CL SURVEY McELROY RD.	422.61	369.79	97.58	0.00	0.00	
TOTALS			35,744.95	30,924.73	8,160.69	11,204.00	7,147.17	

SUMMARY OF TEMPORARY SEDIMENT CONTROL							
PLAN SHEET NO.	STATION TO STATION	TEMPORARY				PERMANENT	
		*TEMPORARY SILT FENCE 221(C) LF	TEMPORARY SEDIMENT FILTER (TYPE 1) 221(D) EA	TEMPORARY SILT DIKE 221(F) LF	TEMPORARY ROCK FILTER DAM TYPE 1 221(G) CY	SOLID SLAB SODDING 230(A) SY	TYPE I PLAIN RIPRAP 601(A) TON
15	STA. 31+82.42 TO STA. 60+00.00	2,560	14	140.00	0.00	10,523.35	19.69
16	STA. 60+00.00 TO STA. 89+08.34	3,353	10	0.00	8.84	7,692.12	94.88
TOTALS		5,913.00	24.00	140.00	8.84	18,215.47	114.57

\* QUANTITY INCLUDES 1000 LINEAR FEET TO BE USED AT THE DIRECTION OF THE ENGINEER.

SUMMARY OF FENCE				
STATION TO STATION LIMITS OF FENCE		LOCATION	SIDE	FENCE STYLE SWF (5 BARBED WIRE) 624(C) LF
STA. 37+02.29	TO STA. 82+71.48	WESTERN RD.	LT.	4,569
STA. 79+00.00	TO STA. 82+79.84	WESTERN RD.	RT.	2,443
TOTAL				7,012

SUMMARY OF STREETScape				
PLAN SHEET NO.	STATION TO STATION	ALIGNMENT	DECORATIVE MEDIAN CONCRETE 610(C) SY	
22	STA. 31+82.42 TO STA. 38+00.00	WESTERN RD.	274.54	
23	STA. 38+00.00 TO STA. 53+00.00	WESTERN RD.	443.08	
24	STA. 53+00.00 TO STA. 68.00.00	WESTERN RD.	434.91	
25	STA. 68+00.00 TO STA. 83+00.00	WESTERN RD.	471.57	
26	STA. 83+00.00 TO STA. 89+08.34	WESTERN RD.	146.77	
TOTAL			1,771.00	

SUMMARY OF PAVED DITCHES							
PLAN SHEET NO.	LOCATION STATION TO STATION	DESIGN NO.	BOTTOM WIDTH	SIDE SLOPE RATIO	LENGTH	NO. OF CURTAIN WALLS	CLASS C CONCRETE
			FT.	XX:1	L.F.	EA.	509(D) C.Y.
23	STA. 41+50.00 TO STA. 43+50.00, RT	2A	8	3:1	201.15	4	36.48
TOTAL							36.48

SUMMARY OF REMOVALS								
PLAN SHEET NO.	LOCATION CL SURVEY WESTERN RD.	REMOVAL OF CONCRETE PAVEMENT 619(B) SY	REMOVAL OF ASPHALT PAVEMENT 619(B) SY	REMOVAL OF CONCRETE DRIVEWAY 619(B) SY	REMOVAL OF ASPHALT DRIVEWAY 619(B) SY	REMOVAL OF CURB 619(B) LF	REMOVAL OF SIDEWALK 619(B) SY	SAWING PAVEMENT 619(C) LF
40	STA. 31+82.42 TO STA. 48+00.00	122	7,608	0	716	481	580	232
41	STA. 48+00.00 TO STA. 75+47.21	243	6,948	417	245	127	0	226
TOTALS		365	14,556	417	961	608	580	458

SUMMARY OF EARTHWORK					
LOCATION	UNCLASSIFIED EXCAVATION 202(A) CY	EMBANKMENT CY	EMBANKMENT +15%' CY	UNCLASSIFIED BORROW 202(C) CY	EXCESS EXCAVATION CY
WESTERN RD.	13,929	17,299	19,894	5,965	
McELROY RD.	980	11	13	0	967
TOTALS (ROADWAY)	14,909			4,998 *	

\* NOTE: EXCESS EXCAVATION FROM McELROY RD. WAS USED TO OFFSET THE UNCLASSIFIED BORROW FROM WESTERN RD.

SUMMARY OF DRIVES AND STREET RETURNS						
PLAN SHEET NO.	STATION/LOCATION	TYPE	WIDTH	LENGTH	RADII	6" CONCRETE DRIVEWAY
			FT	FT	FT	610(B) SY
23	STA 49+16.74 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	30.00	29.00	25	126.47
23	STA 51+21.91 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	23.00	34.00	25	116.69
23	STA 52+59.13 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	20.00	43.00	25	125.36
24	STA 56+24.73 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	19.00	43.00	25	120.58
24	STA 57+82.35 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	19.00	43.00	25	120.58
24	STA 61+67.28 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	30.00	43.00	15	154.06
24	STA 67+00.00 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	24.00	43.00	25	144.47
25	STA 82+51.54 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	23.00	43.00	42	194.01
26	STA 84+61.77 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	36.00	42.00	25	197.81
26	STA 87+04.40 RT. WESTERN RD. CRL	COMM. DR. TYPE 2	36.00	29.65	10	123.37
TOTALS						1,423.42

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUMMARY OF SHEETS (1)</b> Project No. 31595(04) Sheet No. 9	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		

City of **stillwater**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		

SUMMARY OF STRIPING									
PLAN SHEET NO.	STATION TO STATION	4" WHITE PAINT	4" YELLOW PAINT	4" WHITE	4" YELLOW	6" WHITE	8" WHITE	24" WHITE	ARROW
		854(A)	854(A)	885(A)	885(A)	885(A)	885(A)	885(A)	885(B)
		LF	LF	LF	LF	LF	LF	LF	EA
37	31+08.00 TO STA. 61+00.00	650	650	1,680	7,203	0	384	150	4
38	61+00.00 TO STA. 88+76.48	645	645	1,550	6,302	2	196	39	4
<b>TOTAL</b>		<b>1,295</b>	<b>1,295</b>	<b>3,230</b>	<b>13,505</b>	<b>2</b>	<b>580</b>	<b>189</b>	<b>8</b>

SUMMARY OF SIGNS									
SIGN NO.	APPROXIMATE STATION	OFFSET DISTANCE	ROADWAY ALIGNMENT	SIGN TYPE	SHEET ALUM.	2" SQUARE TUBE	2" SQUARE TUBE	SPACING	REMARKS
					850(A)	851(C)	851(C)		
					(S.F.)	(L.F.)	(L.F.)	(L.F.)	
1	STA. 33+00	30' RT.	WESTERN ROAD	W3-1E	16.00	13	13	2.33	
2	STA. 36+00	50' RT.	WESTERN ROAD	R1-1E	7.46	12			
3	STA. 36+15	40' LT.	WESTERN ROAD	R1-1E	7.46	12			
4	STA. 36+23	325' LT.	WESTERN ROAD	W3-1E	16.00	13	13	2.33	
5	STA. 36+57	325' RT.	WESTERN ROAD	W3-1E	16.00	13	13	2.33	
6	STA. 36+65	50' RT.	WESTERN ROAD	R1-1E	7.46	12			
7	STA. 36+85	30' LT.	WESTERN ROAD	R1-1E	7.46	12			
8	STA. 39+80	30' LT.	WESTERN ROAD	W3-1E	16.00	13	13	2.33	
9	STA. 42+00	30' LT.	WESTERN ROAD	R2-1E(35)	12.00	12	12	1.50	
10	STA. 42+00	50' RT.	WESTERN ROAD	R2-1E(35)	12.00	12	12	1.50	
11	STA. 86+00	30' LT.	WESTERN ROAD	R2-1E(35)	12.00	12	12	1.50	
12	STA. 86+00	50' RT.	WESTERN ROAD	R3-3E	16.00	13	13	2.33	
13	STA. 86+50	50' RT.	WESTERN ROAD	R4-7(A)	6.25	12			
14	STA. 88+00	50' RT.	WESTERN ROAD	R4-7(A)	6.25	12			
<b>TOTAL</b>					<b>158.34</b>	<b>173.00</b>	<b>101.00</b>		

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUMMARY OF SHEETS (2)</b> Project No. <u>31595(04)</u> Sheet No. <u>10</u>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		





SUMMARY OF STORM SEWERS AND DRAINAGE STRUCTURES						STORM SEWER DESIGN CRITERIA								STR. INSTALLATION																
STR. NO.	PLAN SH. NO.	STATION/OFFSET	DESCRIPTION	DESIGN	DRAINAGE AREA		CAPTURE "Q"		TOTAL "Q" IN STRUCTURE		BY-PASS "Q"		ELEV. TOP MANHOLE OR GRATE		FLOWLINE IN		FLOWLINE OUT		FLOWLINE IN @ DOWN-STREAM STR. OR DITCH		TRENCH * EXCAVATION		STANDARD * BEDDING MATERIAL CLASS A		STANDARD * BEDDING MATERIAL CLASS B					
					AC	CFS	CFS	CFS	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
					613(V)	613(R)	613(S)	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY
16	24	STA. 52+15.00 35.67' RT WESTERN RD	4" DIA MANHOLE W/ 242 L.F. 24" RCP STUB INTO STR. 13	MJB-3, MFC-4, FPI-4, SPB-1, FHTCP-3	—	—	16.85	—	943.59	938.71 E	938.21 N	932.73	209.05		130.42															
17	25	STA. 54+95.00 26.00' RT WESTERN RD	CICI DES. 2(D) W/ 8 L.F. 18" RCP STUB INTO STR. 18	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.52	3.35	3.35	1.27	951.47	— S	—	947.57 N	4.47		2.47															
18	25	STA. 54+95.00 35.67' RT WESTERN RD	4" DIA MANHOLE W/ 276 L.F. 18" RCP STUB INTO STR. 16	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	—	—	6.45	—	951.83	947.55 E	947.55 S	938.71	152.19		76.99															
19	25	STA. 57+35.00 26.00' RT WESTERN RD	CICI DES. 2(D) W/ 8 L.F. 18" RCP STUB INTO STR. 20	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	1.21	3.09	3.09	1.04	959.11	—	—	955.21 E	4.47		2.47															
20	25	STA. 57+35.00 35.67' RT WESTERN RD	4" DIA MANHOLE W/ 236 L.F. 18" RCP STUB INTO STR. 18	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	—	—	3.09	—	959.47	955.19 E	955.19 S	947.55	129.98		65.76															
21	25	STA. 65+94.00 26.00' RT WESTERN RD	CICI DES. 2(D) W/ 8 L.F. 18" RCP STUB INTO STR. 22	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	1.75	3.82	3.82	1.40	953.03	—	—	949.16 E	3.95		2.19															
22	25	STA. 65+94.00 35.67' RT WESTERN RD	4" DIA MANHOLE W/ 246 L.F. 18" RCP STUB INTO STR. 25	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	—	—	3.82	—	953.75	949.14 E	949.14 N	940.81	145.09		68.50															
23	25	STA. 68+43.00 26.00' LT WESTERN RD	CICI DES. 2(D) W/ 48 L.F. 18" RCP STUB INTO STR. 24	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.44	3.72	3.72	0.00	944.92	—	—	941.05 W	22.21		12.33															
24	25	STA. 68+43.00 26.00' RT WESTERN RD	CICI DES. 2(D) W/ 8 L.F. 18" RCP STUB INTO STR. 25	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	1.95	3.78	7.50	1.37	944.92	940.83 W	940.83 E	940.81	4.67		2.47															
25	25	STA. 68+43.00 35.67' LT WESTERN RD	4" DIA MANHOLE W/ 394 L.F. 24" RCP STUB INTO STR. 27	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	—	—	11.32	—	945.64	940.81 E	940.31 N	930.55	334.75		210.67															
26	25	STA. 72+42.00 26.00' RT WESTERN RD	CICI DES. 2(D) W/ 8 L.F. 18" RCP STUB INTO STR. 27	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	1.69	3.74	3.74	0.72	934.97	—	—	931.07 N	4.47		2.47															
27	25	STA. 72+42.00 35.67' RT WESTERN RD	4" DIA MANHOLE W/ 52 L.F. 24" RCP STUB INTO STR. 28	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	—	—	15.06	—	935.33	931.05 E	930.55 S	926.75	39.39		20.07															

\* FOR INFORMATION ONLY

SUMMARY OF STORM SEWERS CONT.		INLETS											MANHOLES				PIPE										STR. NO.		
STATION/OFFSET	INLET (SMD-TYPE 1)	INLET GPI-TYPE 2 (DES. 8)	INLET GPI-TYPE 2 (DES. 10)	INLET CI DES. 2 (STD)	INLET CI DES. 2 (B)	INLET CI DES. 2 (D)	INLET CI DES. 2 (2B)	INLET CI DES. 3 (STD)	INLET CI DES. 3 (B)	INLET CI DES. 3 (2B)	ADD'L DEPTH IN INLET CI DES. 2	ADD'L DEPTH IN INLET CI DES. 3	MANHOLE (4" DIA.)	MANHOLE (5" DIA.)	ADD'L DEPTH IN MANHOLE (4" DIA.)	ADD'L DEPTH IN MANHOLE (5" DIA.) 611(B)	MANHOLE FRAME & COVER	18" R.C. PIPE CLASS III	24" R.C. PIPE CLASS III	30" R.C. PIPE CLASS III	36" R.C. PIPE CLASS III	58" X 36" R.C. PIPE ARCH CLASS A-II	18" PREFAB. CULVERT END SEC., ROUND	30" PREFAB. CULVERT END SEC., ROUND	36" PREFAB. CULVERT END SEC., ROUND	58" X 36" PREFAB. CULVERT END SECTION, ARCH			
																		613(A)	613(A)	613(A)	613(A)	613(A)	613(L)	613(L)	613(L)	613(L)		EA	EA
STA. 52+15.00 35.67' RT WESTERN RD													1		0.38		1	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	16
STA. 54+95.00 26.00' RT WESTERN RD						1					1.23							8											17
STA. 54+95.00 35.67' RT WESTERN RD													1				1	276											18
STA. 57+35.00 26.00' RT WESTERN RD						1					1.23							8											19
STA. 57+35.00 35.67' RT WESTERN RD																		236						1					20
STA. 65+94.00 26.00' RT WESTERN RD							1				1.20							8											21
STA. 65+94.00 35.67' RT WESTERN RD													1				1	246											22
STA. 68+43.00 26.00' LT WESTERN RD						1					1.20							48											23
STA. 68+43.00 26.00' RT WESTERN RD						1					1.42							8											24
STA. 68+43.00 35.67' LT WESTERN RD													1		0.33		1	394											25
STA. 72+42.00 26.00' RT WESTERN RD						1					1.23							8											26
STA. 72+42.00 35.67' RT WESTERN RD													1				1	52											27
<b>TOTALS</b>	0	0	0	0	0	6	0	0	0	0	8	0	4	0	0	0	4	846	446	0	0	0	0	0	0	1	0		

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		SUMMARY OF DRAINAGE STRUCTURES (2) Project No. 31595(04) Sheet No. 12	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		

SUMMARY OF STORM SEWERS AND DRAINAGE STRUCTURES				STORM SEWER DESIGN CRITERIA										STR. INSTALLATION					
STR. NO.	PLAN SH. NO.	STATION/OFFSET	DESCRIPTION	DESIGN	DRAINAGE AREA	CAPTURE "Q"	TOTAL "Q" IN STRUCTURE	BY-PASS "Q"	ELEV. TOP MANHOLE OR GRATE	FLOWLINE IN	FLOWLINE OUT	FLOWLINE IN @ DOWN-STREAM STR. OR DITCH	TRENCH * EXCAVATION	STANDARD * BEDDING MATERIAL, CLASS A	STANDARD * BEDDING MATERIAL, CLASS B	CLASS AA	REINFORCING	UNCLASSIFIED	STRUCTURAL
																CONCRETE	STEEL	EXCAVATION 202(A)	EXCAVATION UNCLASSIFIED 501(A)
					AC	CFS	CFS	CFS	FT	FT	FT	FT	CY	CY	CY	509(A)	511(A)	202(A)	501(A)
																CY	LB	CY	CY
28	25	STA. 73+10.00 WESTERN RD	6'x6' RCB W/ SP. DES. END SECTIONS	RCB-C1-6(2-14), SP. DESIGN SBI-4	SEE DRAINAGE STR. DESIGN RECORD										96.10	12,013.00	596.05	68.38	
29	25	STA. 74+51.11 26.00' LT WESTERN RD	CICI DES. 2(2B) W/ 48 L.F. 24" RCP STUB INTO STR. 30	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.88	9.13	9.12	0.00	933.61	--	929.25 E	929.00	31.98		17.76				
30	25	STA. 74+51.11 26.00' RT WESTERN RD	CICI DES. 2(2B) W/ 8 L.F. 24" RCP STUB INTO STR. 31	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.50	2.85	11.73	0.00	933.61	929.00 W	929.00 E	928.95	6.59		3.47				
31	25	STA. 74+51.11 35.67' RT WESTERN RD	5' DIA MANHOLE W/ 148 L.F. 30" RCP STUB INTO STR. 28	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	--	--	37.38	--	933.97	928.95 W 928.45 N	928.45 S	926.75	146.94		94.28				
32	25	STA. 78+79.00 26.00' LT WESTERN RD	CICI DES. 2(D) W/ 48 L.F. 18" RCP STUB INTO STR. 33	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.69	4.16	4.16	1.41	939.25	--	935.35 E	935.13	22.86		12.60				
33	25	STA. 78+79.00 26.00' RT WESTERN RD	CICI DES. 2(D) W/ 8 L.F. 18" RCP STUB INTO STR. 34	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.23	2.41	6.57	0.38	939.25	935.13 W	935.13 E	935.11	4.71		2.47				
34	25	STA. 78+79.00 35.67' RT WESTERN RD	5' DIA MANHOLE W/ 422 L.F. 30" RCP STUB INTO STR. 31	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	--	--	25.65	--	939.61	935.11 W 934.65 N	934.11 S	928.45	423.48		272.64				
35	25	STA. 81+77.00 26.00' RT WESTERN RD	CICI DES. 3(STD) W/ 8 L.F. 18" RCP STUB INTO STR. 36	CI-1, SSIF-4, CIG-3, SPI-4, SPB-1, FHTCP-3	0.59	4.22	4.22	0.80	946.30	--	942.40 E	942.38	4.47		2.47				
36	25	STA. 81+77.00 35.67' RT WESTERN RD	4' DIA MANHOLE W/ 294 L.F. 24" RCP STUB INTO STR. 34	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	--	--	19.08	--	947.02	942.38 W 941.88 N	941.88 S	934.65	241.62		157.34				
37	26	STA. 84+26.00 35.67' RT WESTERN RD	4' DIA MANHOLE W/ 246 L.F. 24" RCP STUB INTO STR. 36	MJB-3, MFC-4, SPI-4, SPB-1, FHTCP-3	--	--	14.85	--	952.94	948.64 NE	948.64 S	941.88	171.59		96.50				
38	26	STA. 84+96.50 57.77' RT WESTERN RD	INLET SMD-TYPE 1 GRATE W/ 72 L.F. 24" RCP STUB INTO STR. 37	SMD-3, SPI-4, SPB-1, FHTCP-3	0.00	14.85	14.85	0.00	953.13	--	950.50 SW	948.64	34.24	30.11					

\* FOR INFORMATION ONLY

SUMMARY OF STORM SEWERS CONT.																																							
STATION/OFFSET	INLETS										MANHOLES						PIPE								STR. NO.														
	INLET (SMD-TYPE 1)		INLET GPI-TYPE 2 (DES. 8)		INLET GPI-TYPE 2 (DES. 10)		INLET CI DES. 2 (STD)		INLET CI DES. 2 (B)		INLET CI DES. 2 (D)		INLET CI DES. 2 (2B)		INLET CI DES. 3 (STD)		INLET CI DES. 3 (B)		INLET CI DES. 3 (2B)		ADD'L DEPTH IN INLET CI DES. 2		ADD'L DEPTH IN INLET CI DES. 3			MANHOLE (4' DIA.)		MANHOLE (5' DIA.)		ADD'L DEPTH IN MANHOLE (4' DIA.)		ADD'L DEPTH IN MANHOLE (5' DIA.)		MANHOLE FRAME & COVER					
	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(G)	611(H)	611(H)	611(A)	611(A)		611(B)	611(B)	EA	18" R.C.P. PIPE CLASS III	24" R.C.P. PIPE CLASS III	30" R.C.P. PIPE CLASS III	36" R.C.P. PIPE CLASS III	58" X 36" R.C.P. PIPE ARCH CLASS A-II	18" PREFAB. CULVERT END SEC. ROUND	30" PREFAB. CULVERT END SEC. ROUND	36" PREFAB. CULVERT END SEC. ROUND	58" X 36" PREFAB. CULVERT END SECTION, ARCH		
STA. 73+10.00 WESTERN RD	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	VF	VF	EA	EA	VF	VF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA				
STA. 74+51.11 26.00' LT WESTERN RD																																							29
STA. 74+51.11 26.00' RT WESTERN RD																																							30
STA. 74+51.11 35.67' RT WESTERN RD																																							31
STA. 78+79.00 26.00' LT WESTERN RD																																							32
STA. 78+79.00 26.00' RT WESTERN RD																																							33
STA. 78+79.00 35.67' RT WESTERN RD																																							34
STA. 81+77.00 26.00' RT WESTERN RD																																							35
STA. 81+77.00 35.67' RT WESTERN RD																																							36
STA. 84+26.00 35.67' RT WESTERN RD																																							37
STA. 84+96.50 57.77' RT WESTERN RD	1																																						38
<b>TOTALS</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>64</b>	<b>668</b>	<b>570</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		SUMMARY OF DRAINAGE STRUCTURES (3)	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 13

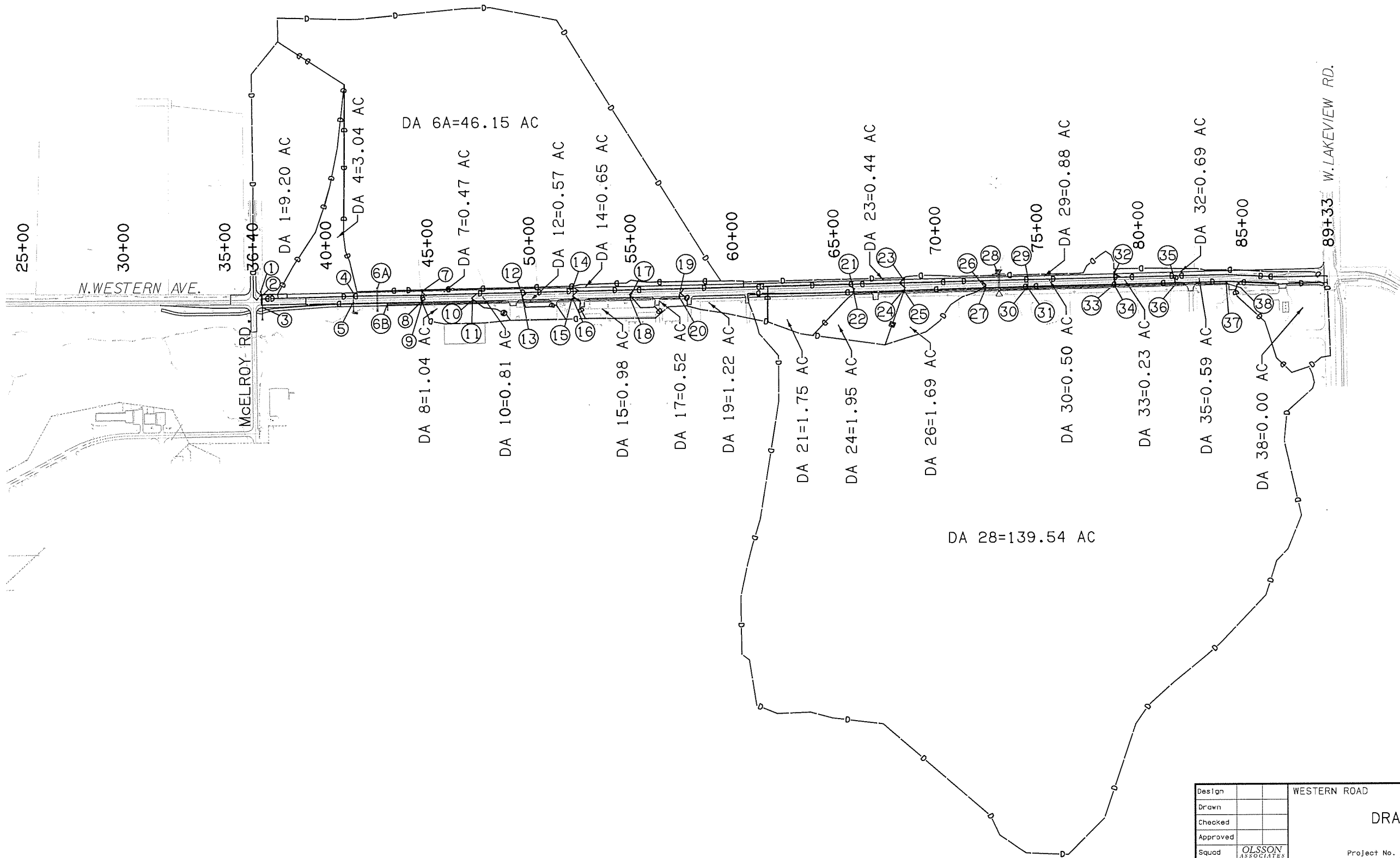
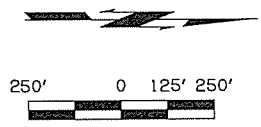


DRAINAGE STRUCTURE DESIGN RECORD

STRUCTURE NO.	DESIGN YEAR	CENTER LINE STATION	STRUCTURE SIZE & TYPE	DRAINAGE AREA AC	ANTICIPATED LAND USE	AVG. SLOPE OF WATERSHED FT/FT	"C" RUNOFF COEFFICIENT WEIGHTED	LENGTH OF OVERLAND FLOW FT	LENGTH OF CHANNEL FLOW FT	SLOPE OF CHANNEL FT/FT	"Tc" TIME OF CONCENTRATION MIN	INTENSITY OF DESIGN YEAR RAINFALL			DESIGN YEAR DISCHARGE			TW. DESIGN TAILWATER FT	FLOW LINE INLET ELEV.	FLOW LINE OUTLET ELEV.	STRUCTURE SLOPE FT/FT	MAXIMUM ALLOWABLE HEADWATER ELEV.	FLOW VELOCITY V50 FT/S	CONTROLLING HEADWATER ELEV.	TYPE OF HYDRAULIC CONTROL	REMARKS	
												10 IN/HR	50 IN/HR	100 IN/HR	10 CFS	50 CFS	100 CFS										
28	50	STA. 73+10.00 CRL. WESTERN RD	REMOVE EXISTING 60" CGMP. CONSTRUCT 85 LF 1-6'X6' RCB W/ SP. DES. END SECTIONS	139.54	PASTURE	0.014	0.36	1177	2201	0.013	49.7				289.60				2.73	925.75	924.47	0.0148	933.83	17.65	933.35	INLET	

CITY OF **stillwater**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		***

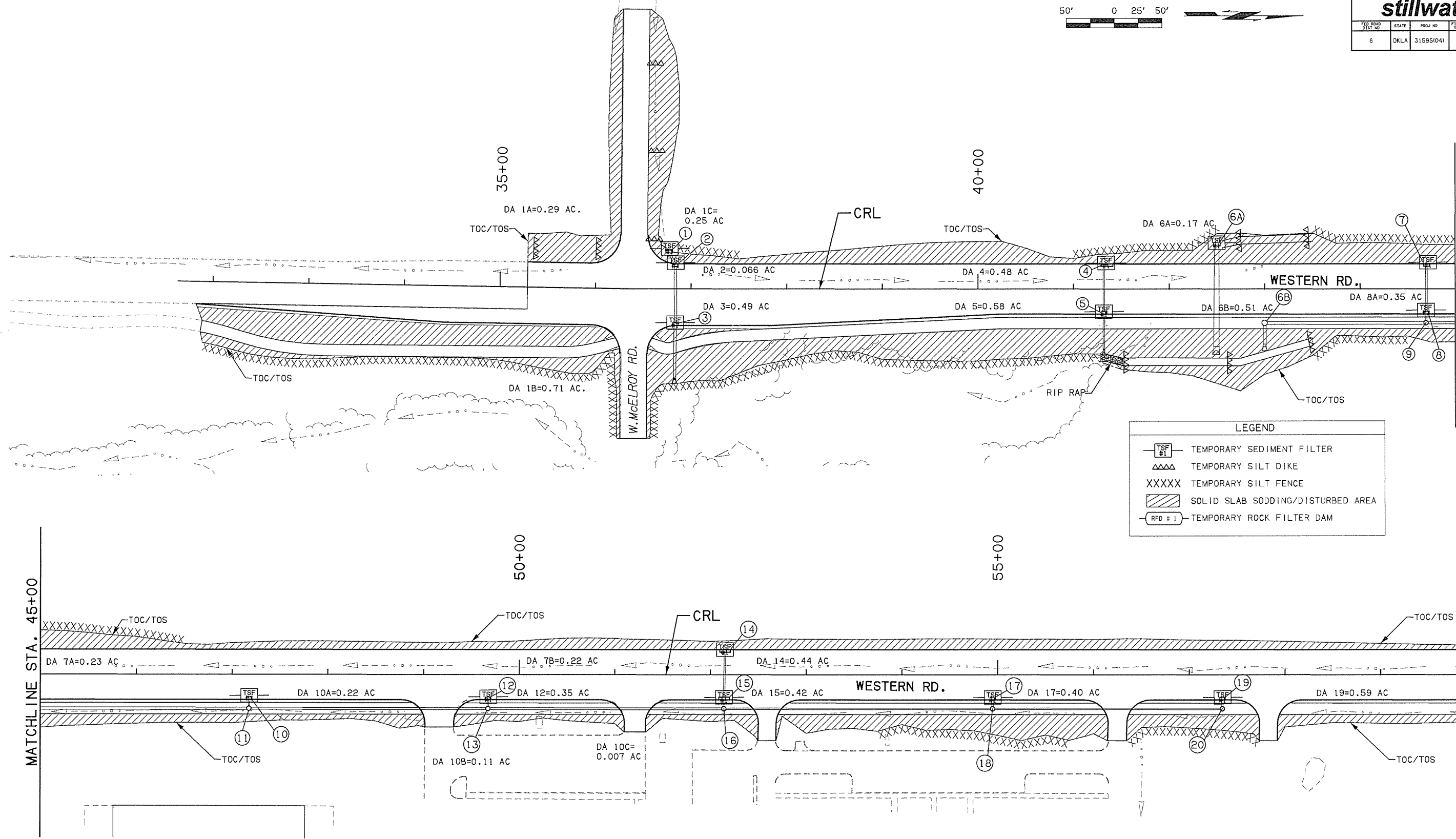
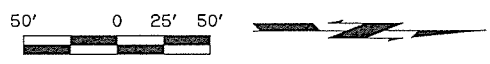


Design		WESTERN ROAD	PAYNE COUNTY
Drawn		DRAINAGE MAP	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
Project No. 31595(04)		Sheet No. 14	



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CITY OF <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		



LEGEND	
	TEMPORARY SEDIMENT FILTER
	TEMPORARY SILT DIKE
	TEMPORARY SILT FENCE
	SOLID SLAB SODDING/DISTURBED AREA
	TEMPORARY ROCK FILTER DAM

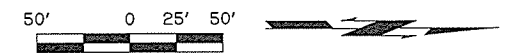
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>EROSION CONTROL (1)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 16



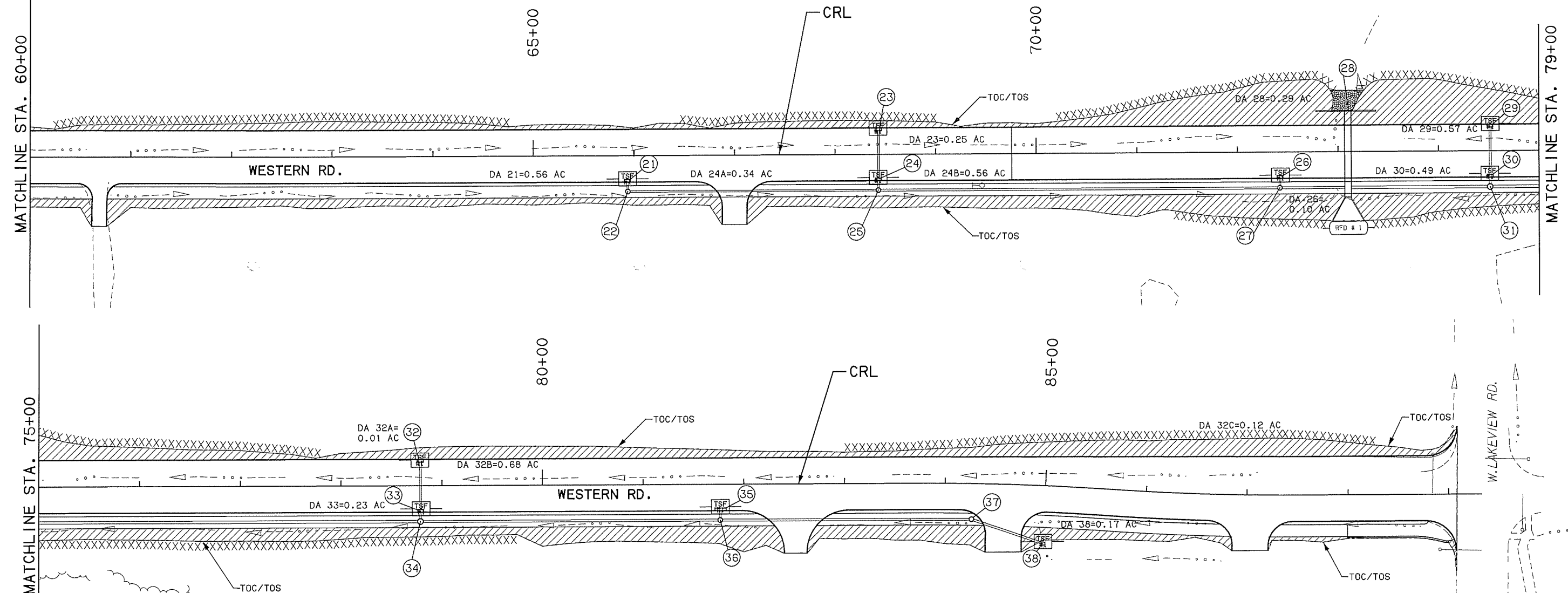
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CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	31595(04)	16		

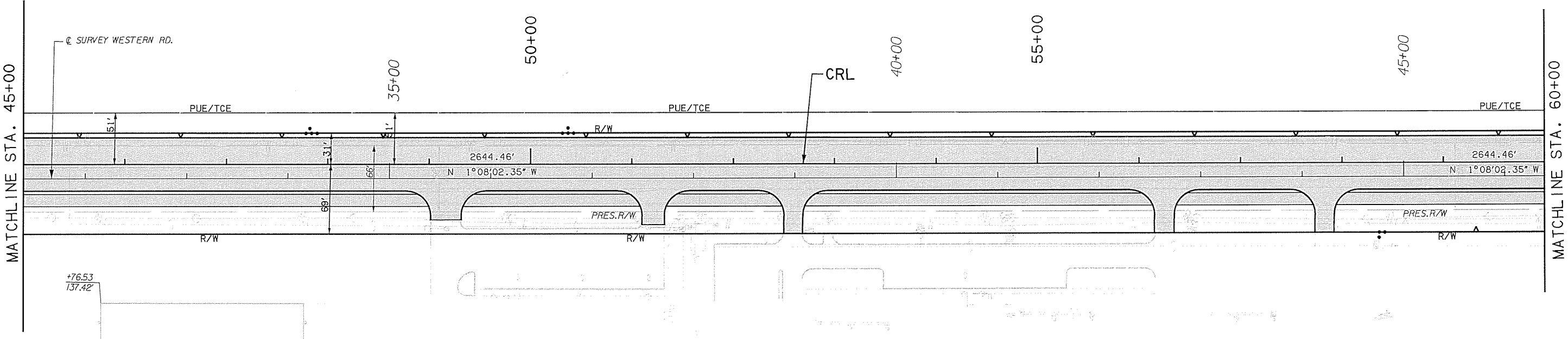
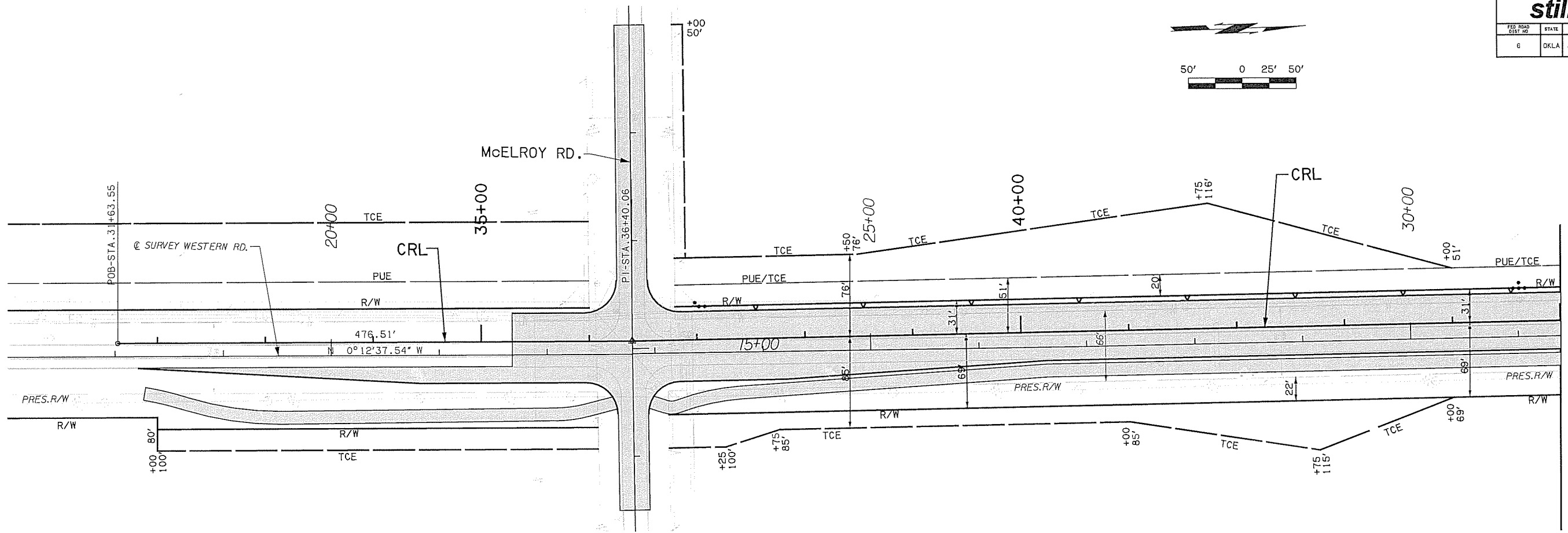
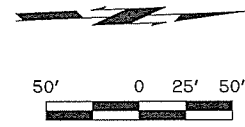


SUMMARY OF DISTURBED DRAINAGE AREA (FOR INFORMATION ONLY)							
EROSION CONTROL PLAN NO.	DISTURBED AREA NO.	DRAINAGE STATION EXTENTS		OUTFALL STATION OR STRUCTURE	AREA ACRE	SEDIMENT CONTROL MEASURES	STANDARDS
		STATION TO	STATION				
EC 1	1	31+63.55	TO 36+76.42	1	1.25	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	2	36+79.81	TO 38+05.81	2	0.06	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	3	36+79.09	TO 38+97.26	3	0.49	TEMP SED.FILTER	TSC2-3-2,TSD-2-0
EC 1	4	37+61.53	TO 44+86.67	4	0.48	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	5	38+97.47	TO 44+85.80	5	0.58	TEMP SED.FILTER	TSC2-3-2,TSD-2-0
EC 1	6	36+39.96	TO 44+63.27	6	0.87	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	7	44+65.08	TO 52+11.60	7	0.45	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	8	44+63.34	TO 47+12.72	8	0.35	TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2
EC 1	10	47+13.12	TO 51+35.44	10	0.33	TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2
EC 1	12	49+62.34	TO 52+10.50	12	0.35	TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2
EC 1	14	52+11.72	TO 60+52.34	14	0.44	TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2
EC 1	15	49+62.34	TO 52+11.21	15	0.42	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	17	52+11.96	TO 54+91.19	17	0.40	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 1	19	54+91.01	TO 57+72.47	19	0.59	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	21	65+69.44	TO 68+46.91	21	0.56	TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	23	68+20.02	TO 73+06.41	23	0.25	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	24	68+23.87	TO 75+45.03	24	0.90	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	26	71+52.13	TO 73+06.36	26	0.10	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	28	70+64.26	TO 73+06.43	28	0.29	RFD, SILT FENCE, SOLID SLAB SOD	RFD, SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	29	73+13.62	TO 77+18.29	29	0.57	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	30	74+51.14	TO 78+76.03	30	0.49	TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	32	78+74.87	TO 77+72.71	32	0.81	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	33	78+76.22	TO 81+74.00	33	0.23	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	35	81+74.00	TO 89+23.09	35	0.91	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
EC 2	38	84+72.32	TO 89+23.09	38	0.17	SILT FENCE, TEMP SED.FILTER, SOLID SLAB SOD	SSS-1-1,TSC2-3-2,TSD-2-0
TOTAL						12.34	

LEGEND	
	TEMPORARY SEDIMENT FILTER
	TEMPORARY SILT DIKE
	TEMPORARY SILT FENCE
	SOLID SLAB SODDING/DISTURBED AREA
	TEMPORARY ROCK FILTER DAM

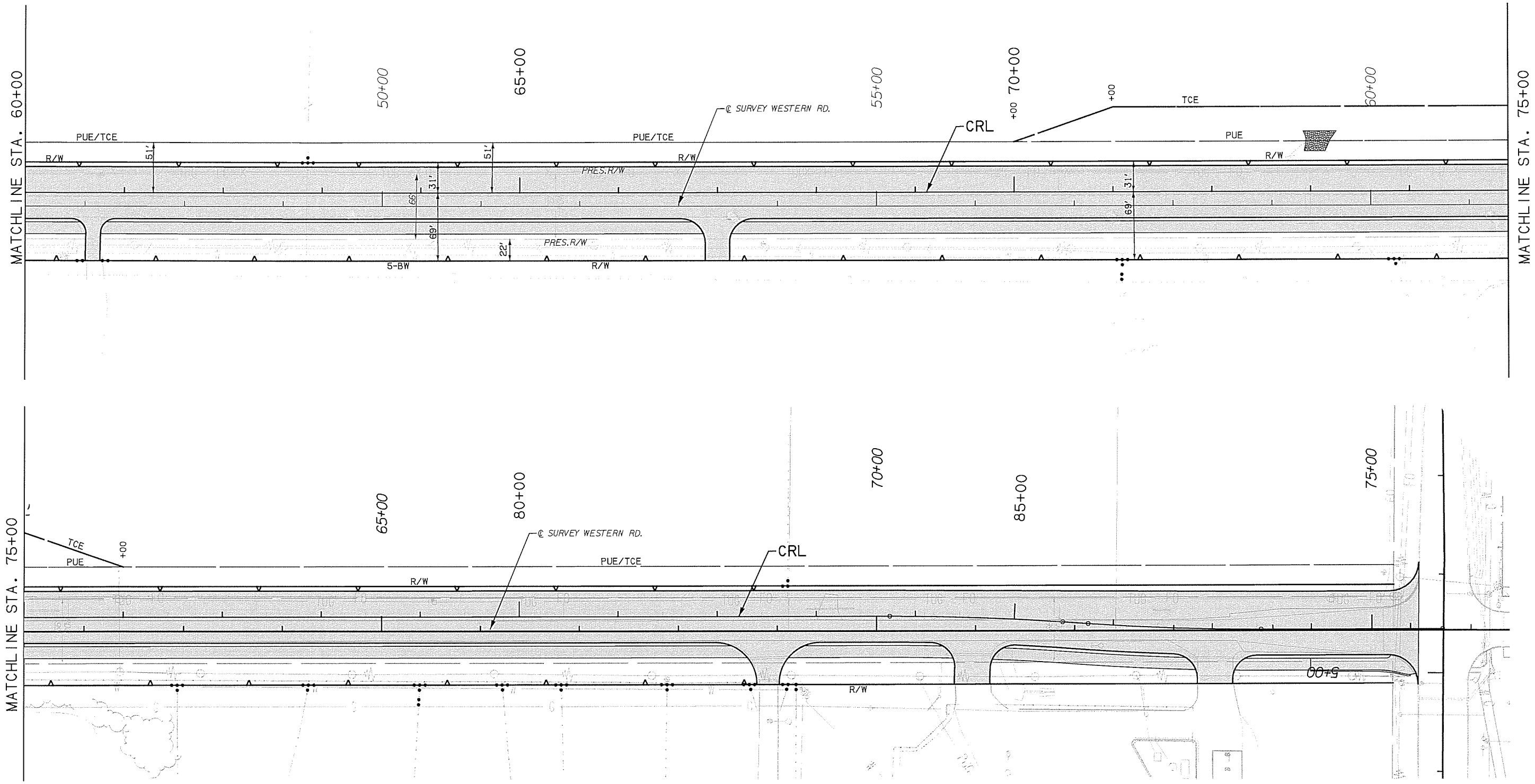
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>EROSION CONTROL (2)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 17

CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>R/W PLAN (1)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 18

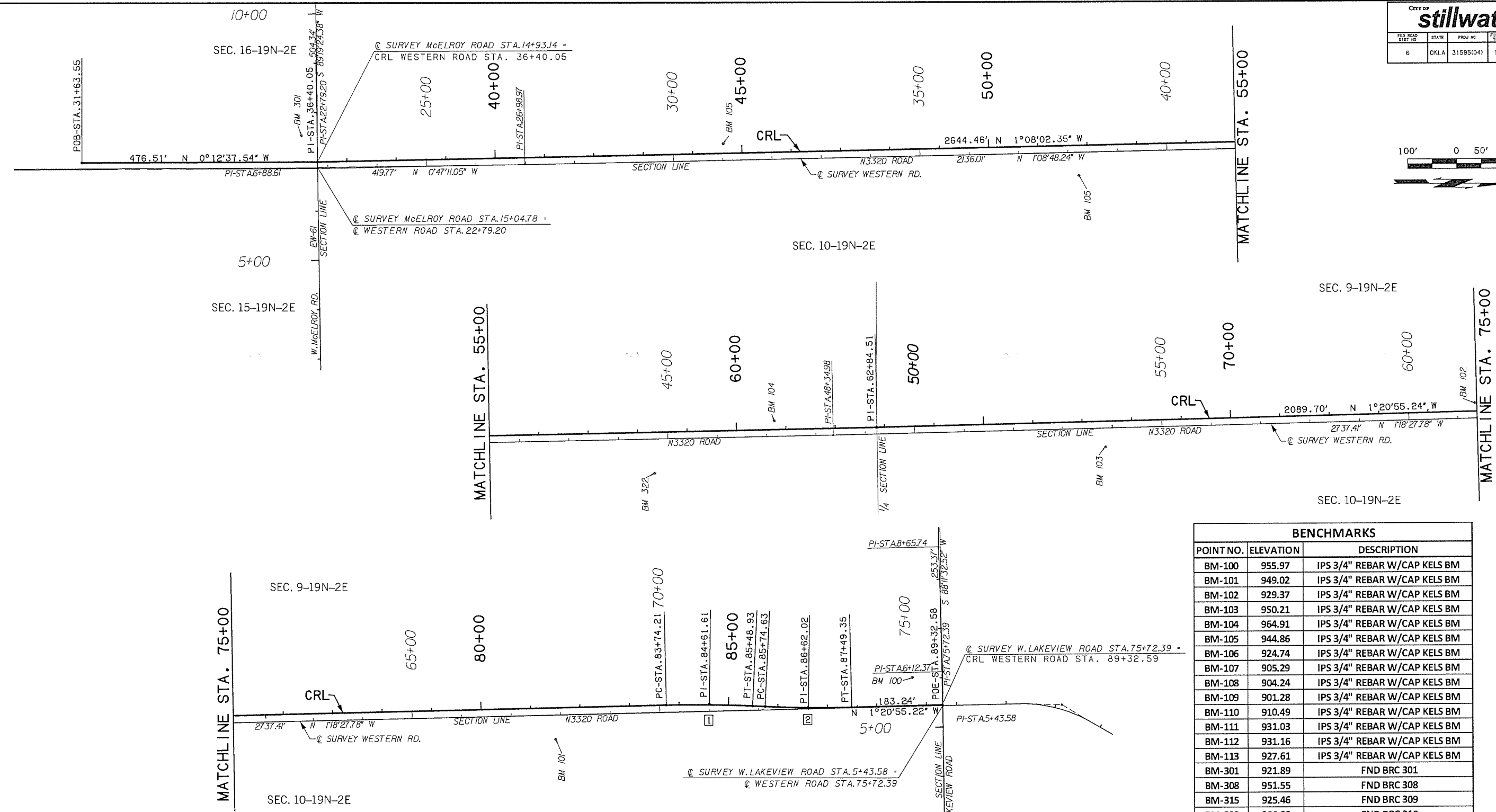
City of <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		



Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>R/W PLAN (2)</b> Project No. 31595(04) Sheet No. 19	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		

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City of <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



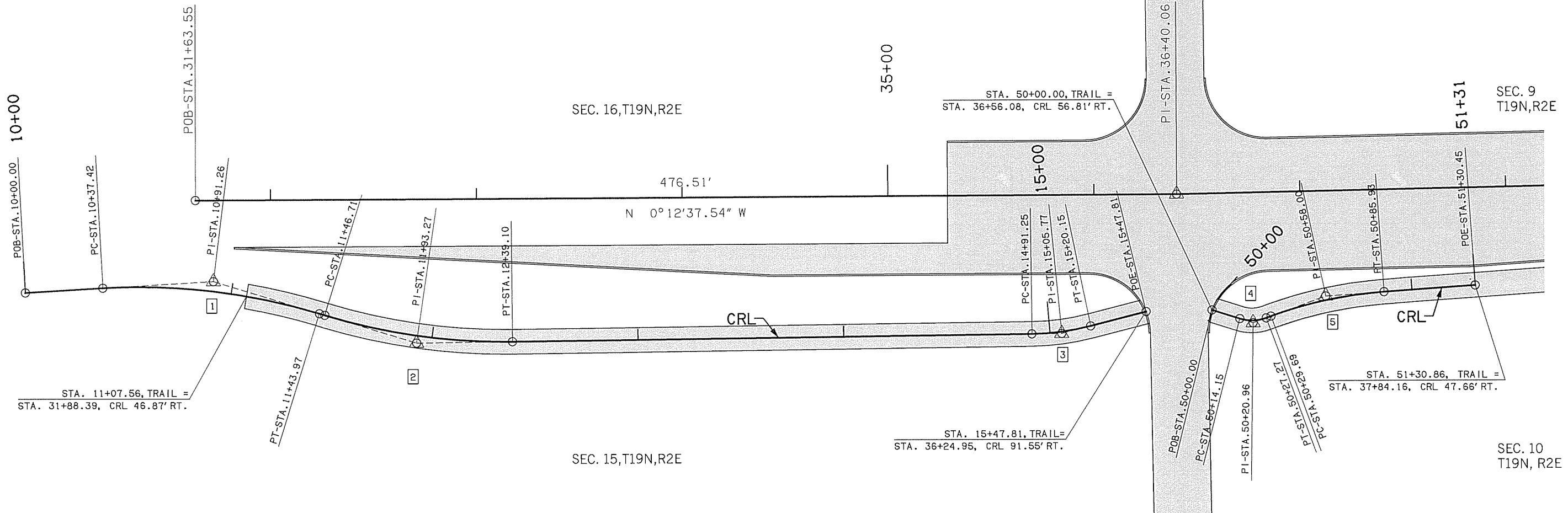
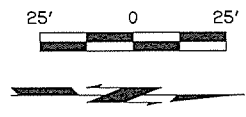
CURVE	CARDINAL POINTS			CURVE DATA						
	STATION	X (EAST) (FEET)	Y (NORTH) (FEET)	DELTA	RADIUS (FEET)	TANGENT (FEET)	ARC (FEET)	EXTERNAL (FEET)	DEGREE	
POB	31+63.55	2238029.6285	412274.2894							
PI	36+40.05	2238027.8785	412750.7938							
PI	62+84.51	2237975.5432	415394.7392							
1	PC	83+74.21	2237926.3586	417483.8600	4°00'15.03"	2500.00	87.39	174.72	1.527	2°17'30.59"
	PI	84+61.61	2237925.8286	417571.2114						
	PT	85+48.93	2237928.3506	417658.5281						
2	PC	85+74.63	2237929.5415	417684.2038	4°00'15.01"	2500.00	87.39	174.71	1.527	2°17'30.59"
	PI	86+62.02	2237932.0635	417771.5204						
	PT	87+49.35	2237931.5335	417858.8717						
POE	89+32.58	2237927.2207	418042.0574							

BENCHMARKS		
POINT NO.	ELEVATION	DESCRIPTION
BM-100	955.97	IPS 3/4" REBAR W/CAP KELS BM
BM-101	949.02	IPS 3/4" REBAR W/CAP KELS BM
BM-102	929.37	IPS 3/4" REBAR W/CAP KELS BM
BM-103	950.21	IPS 3/4" REBAR W/CAP KELS BM
BM-104	964.91	IPS 3/4" REBAR W/CAP KELS BM
BM-105	944.86	IPS 3/4" REBAR W/CAP KELS BM
BM-106	924.74	IPS 3/4" REBAR W/CAP KELS BM
BM-107	905.29	IPS 3/4" REBAR W/CAP KELS BM
BM-108	904.24	IPS 3/4" REBAR W/CAP KELS BM
BM-109	901.28	IPS 3/4" REBAR W/CAP KELS BM
BM-110	910.49	IPS 3/4" REBAR W/CAP KELS BM
BM-111	931.03	IPS 3/4" REBAR W/CAP KELS BM
BM-112	931.16	IPS 3/4" REBAR W/CAP KELS BM
BM-113	927.61	IPS 3/4" REBAR W/CAP KELS BM
BM-301	921.89	FND BRC 301
BM-308	951.55	FND BRC 308
BM-315	925.46	FND BRC 309
BM-322	906.88	FND BRC 310
BM-320	913.04	FND BRC 320
BM-321	970.29	FND BRC 321
BM-322	965.05	FND BRC 322
BM-324	951.51	FND BRC 324
BM-326	933.99	FND BRC 326

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>GEOMETRIC DATA (1)</b> Project No. 31595(04) Sheet No. 20	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		



CITY OF <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		



CRL WESTERN ROAD TRAIL										
CURVE	CARDINAL POINTS				CURVE DATA					
	STATION	X (EAST) (FEET)	Y (NORTH) (FEET)	DELTA	RADIUS (FEET)	TANGENT (FEET)	ARC (FEET)	EXTERNAL (FEET)	DEGREE	
1	POB	10+00	2238074.5714	412192.0830						
	PC	10+37.42	2238072.3636	412229.4010	19°05'54.94"	300.00	53.84	106.55	4.793	
	PI	10+91.26	2238069.1877	412283.1872						
	PT	11+43.97	2238084.8999	412334.6843						
2	PC	11+46.71	2238085.6987	412337.3022	17°38'42.30"	300.00	46.56	92.39	3.592	
	PI	11+93.27	2238099.2872	412381.8387						
	PT	12+39.10	2238098.7364	412428.3988						
	POE	15+47.81	2238085.0357	412735.8959						
3	PC	14+91.25	2238095.7591	412680.5307	13°48'04.00"	120.00	14.52	28.9	0.88	
	PI	15+05.77	2238095.5824	412695.0525						
	PT	15+20.15	2238091.9514	412709.1140						
	POB	50+00.00	2238084.3611	412767.9290						
4	PC	50+14.15	2238088.6125	412781.4247	37°35'37.53"	20.00	6.81	13.12	1.13	
	PI	50+20.96	2238090.6579	412787.9175						
	PT	50+27.27	2238088.3175	412794.3099						
	POB	50+00.00	2238084.3611	412767.9290						
5	PC	50+29.69	2238087.4859	412796.5816	16°06'42.56"	200.00	28.31	56.24	1.990	
	PI	50+58.00	2238077.7539	412823.1633						
	PT	50+85.93	2238075.7810	412851.4017						
	POE	51+30.45	2238072.6782	412895.8124						

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>GEOMETRIC DATA (2)</b> Project No. 31595(04) Sheet No. 21	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		

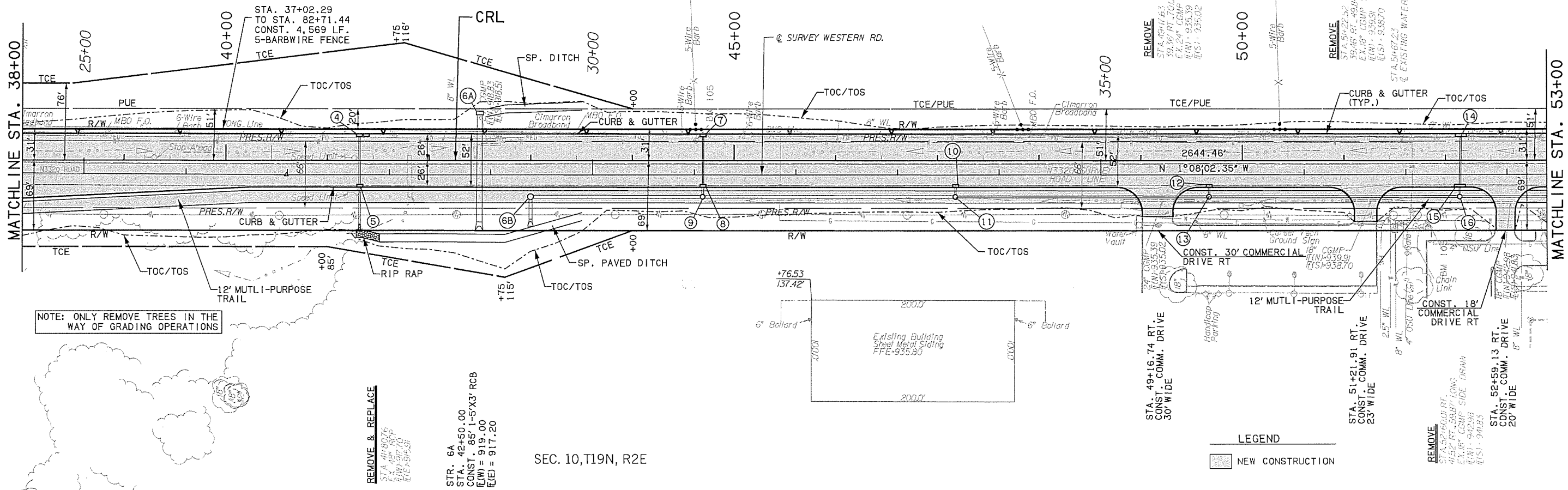


OKLAHOMA STATE UNIVERSITY

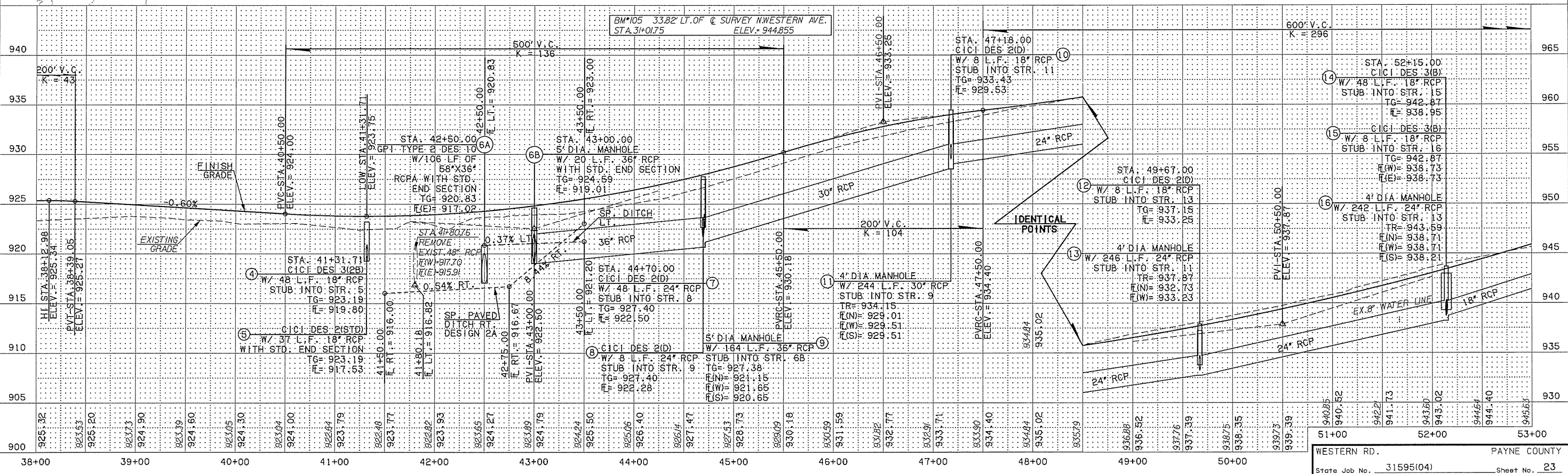
SEC. 9, T19N, R2E



City of <b>stillwater</b>					
PROJ. NO.	STATE	J/P PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



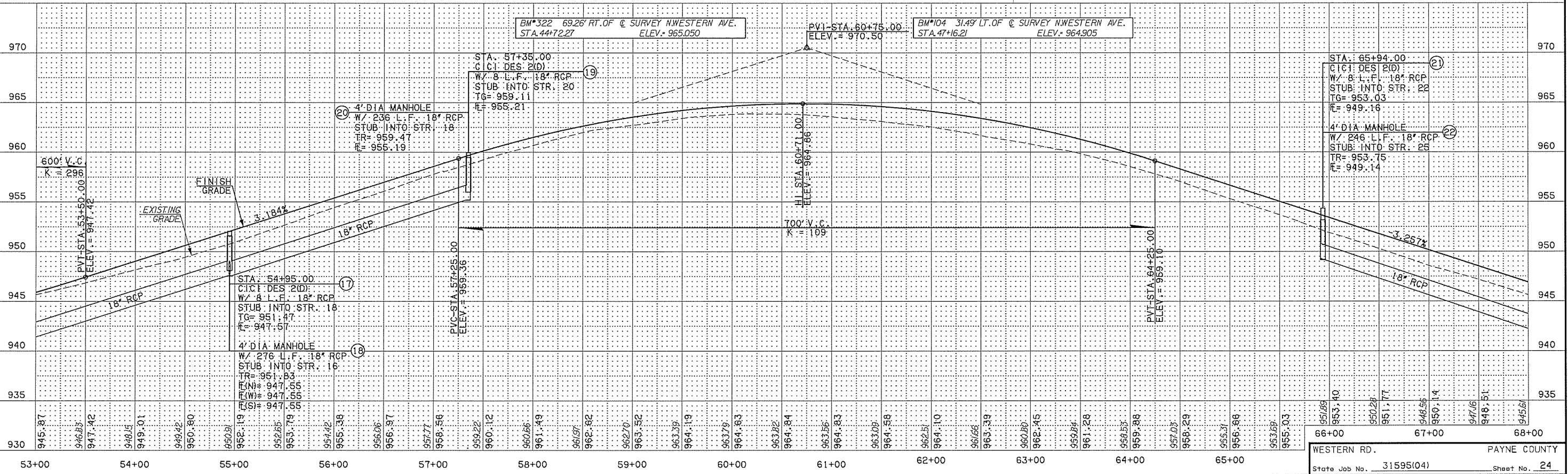
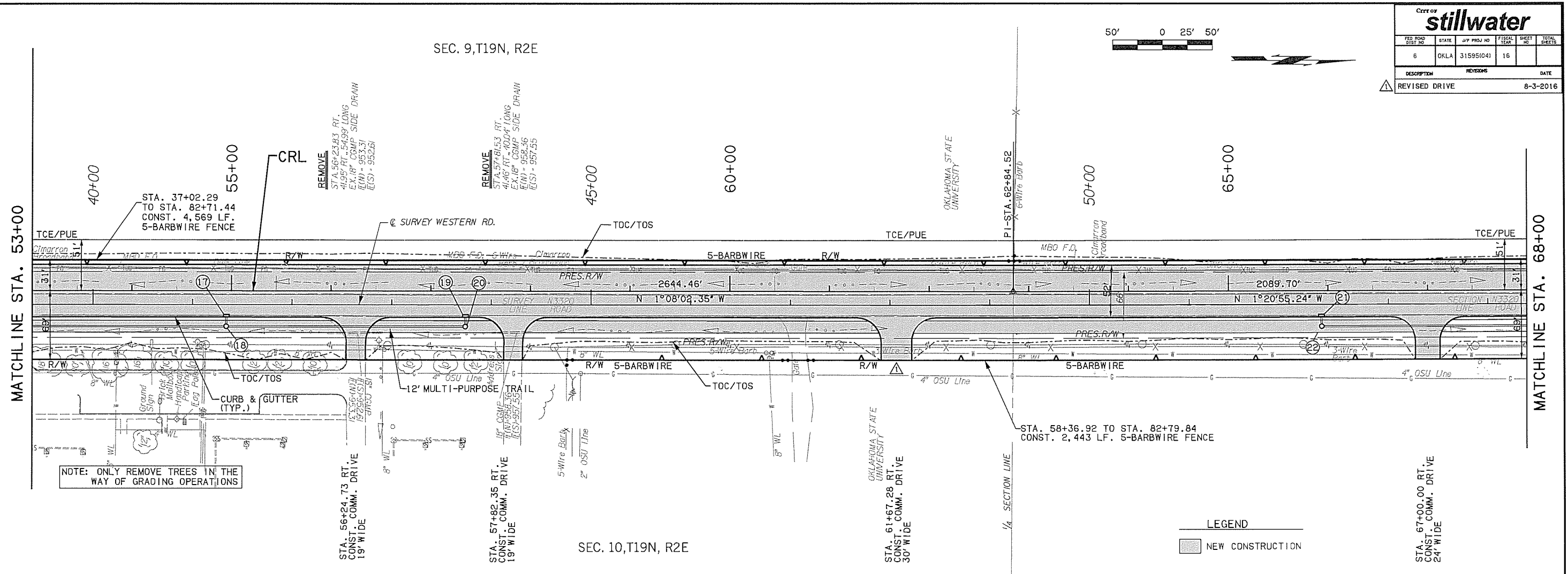
SEC. 10, T19N, R2E



City of **stillwater**

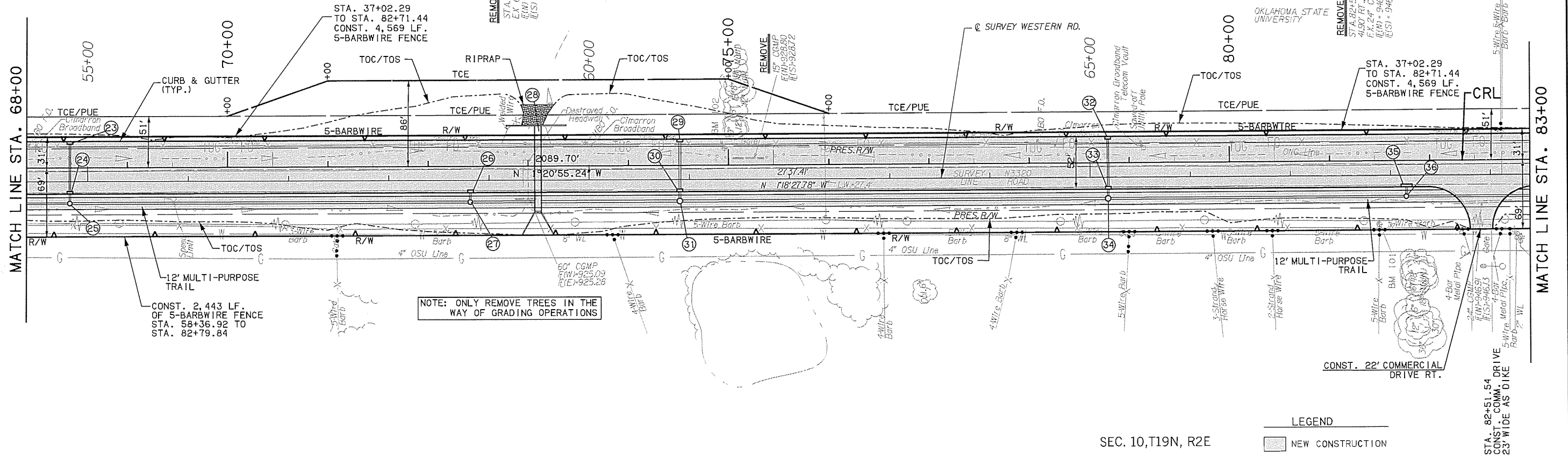
FED. ROAD DIST. NO.	STATE	J/P PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		

DESCRIPTION: REVISED DRIVE  
DATE: 8-3-2016



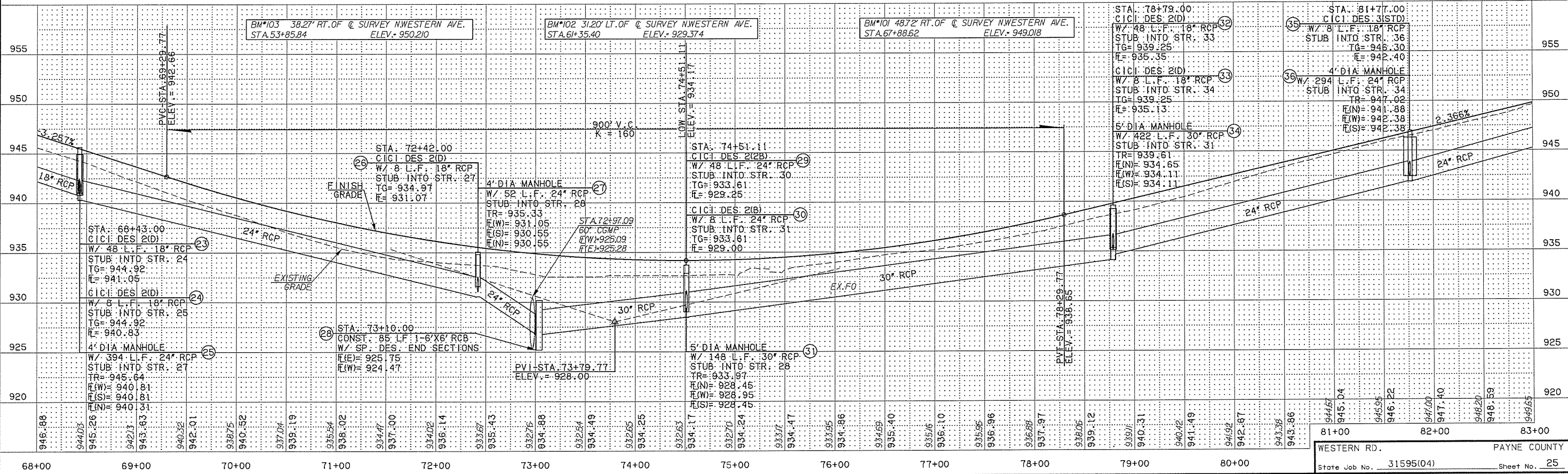


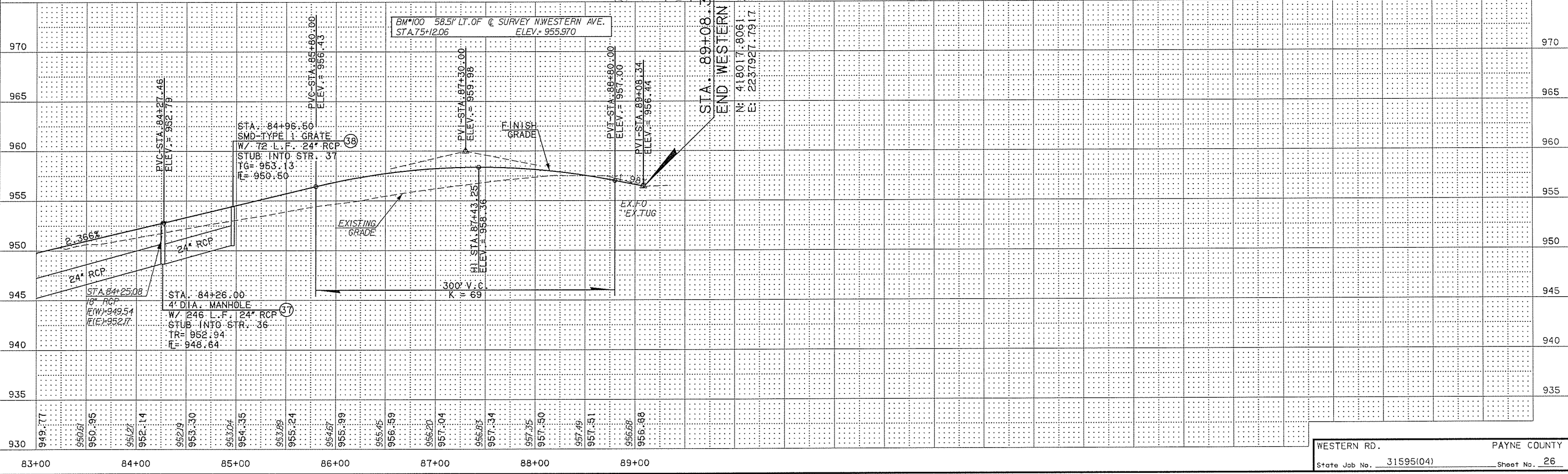
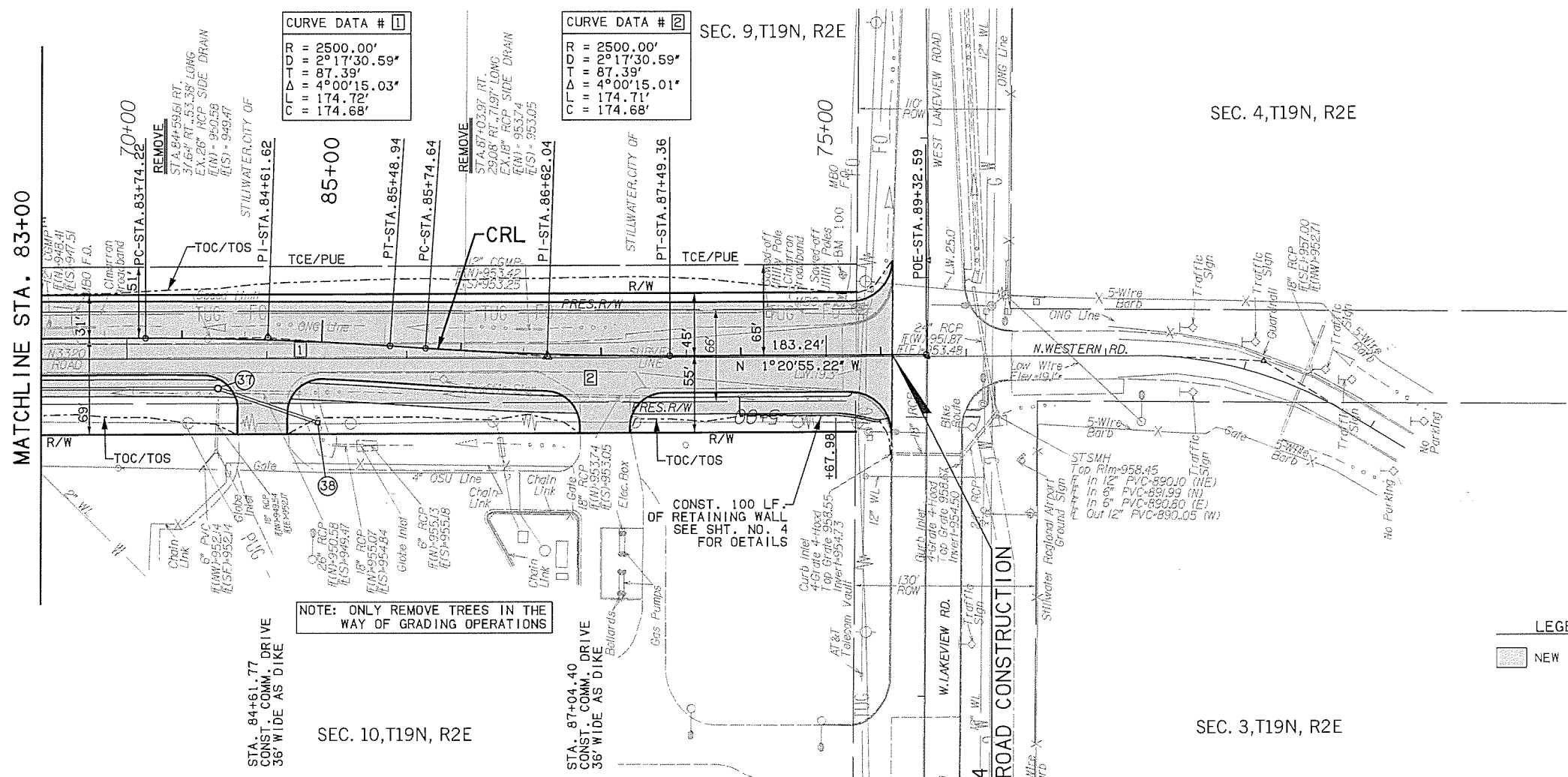
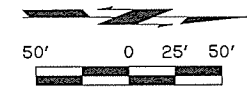
SEC. 9, T19N, R2E



LEGEND  
 NEW CONSTRUCTION

SEC. 10, T19N, R2E



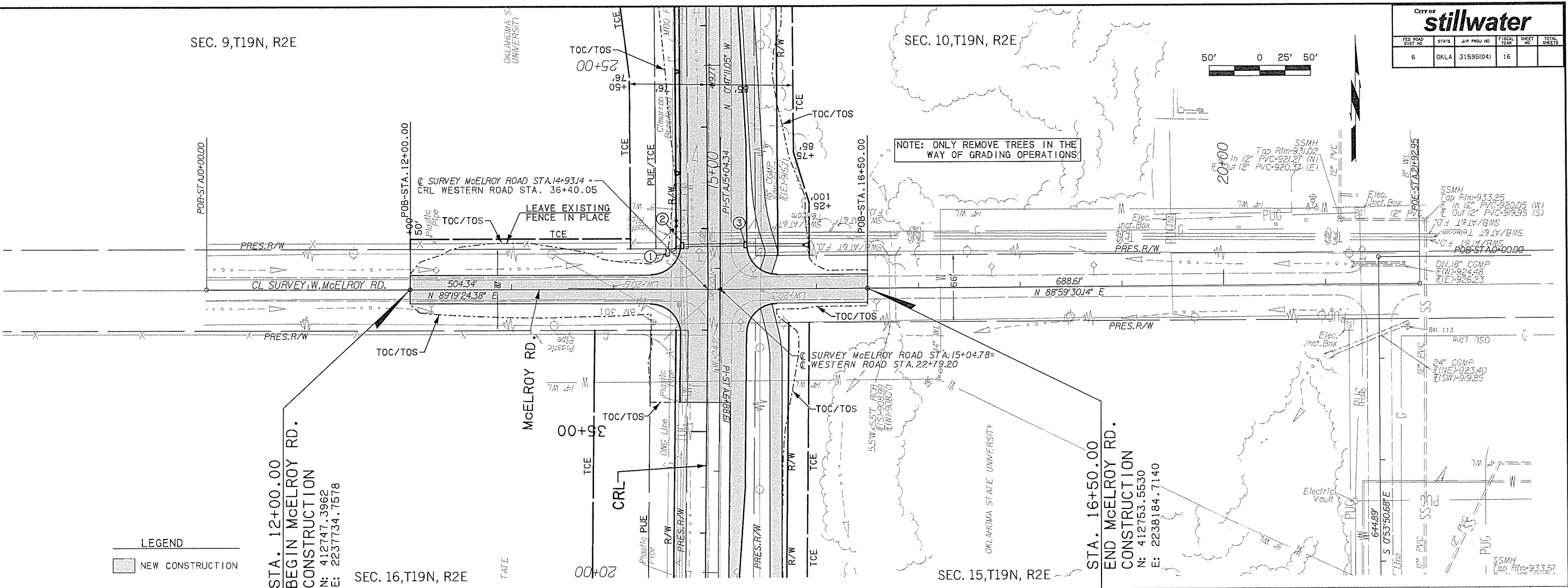


SEC. 9, T19N, R2E

SEC. 10, T19N, R2E

CITY OF **stillwater**

PER ROAD DIST NO	STATE	J/P PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		

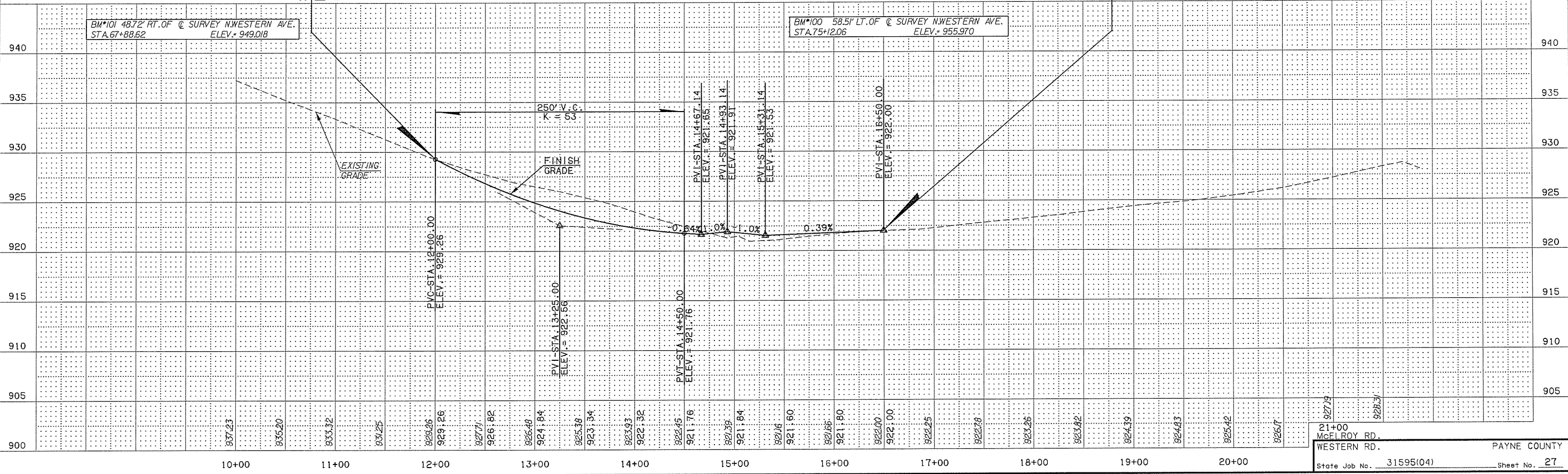


**LEGEND**

NEW CONSTRUCTION

STA. 12+00.00  
 BEGIN MCELROY RD.  
 CONSTRUCTION  
 N: 412747.3962  
 E: 2237734.7578

STA. 16+50.00  
 END MCELROY RD.  
 CONSTRUCTION  
 N: 412753.5530  
 E: 2238184.7140

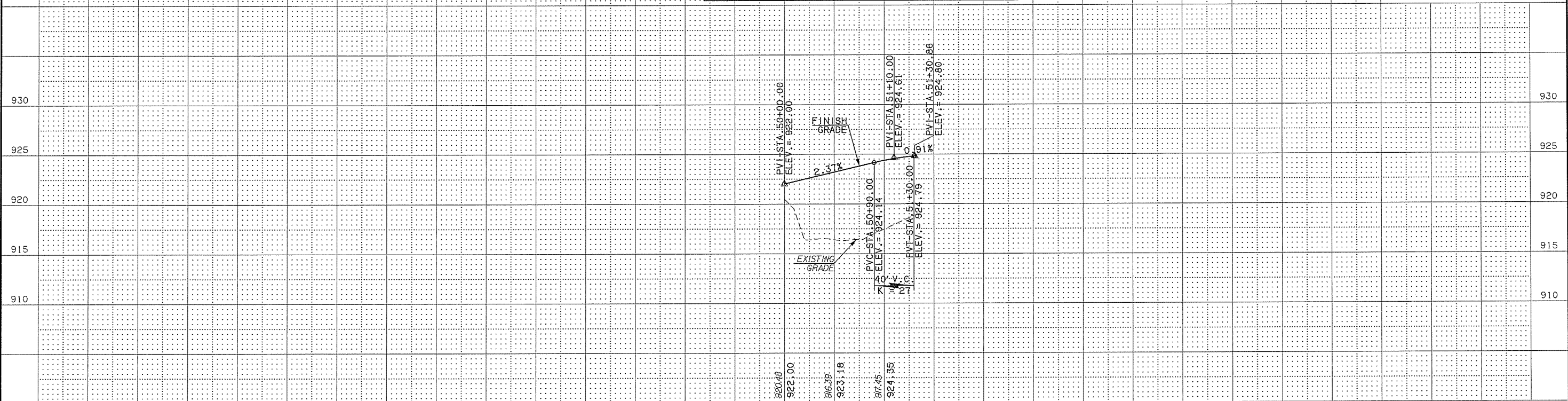


21+00  
 MCELROY RD.  
 WESTERN RD.  
 State Job No. 31595(04) Sheet No. 27

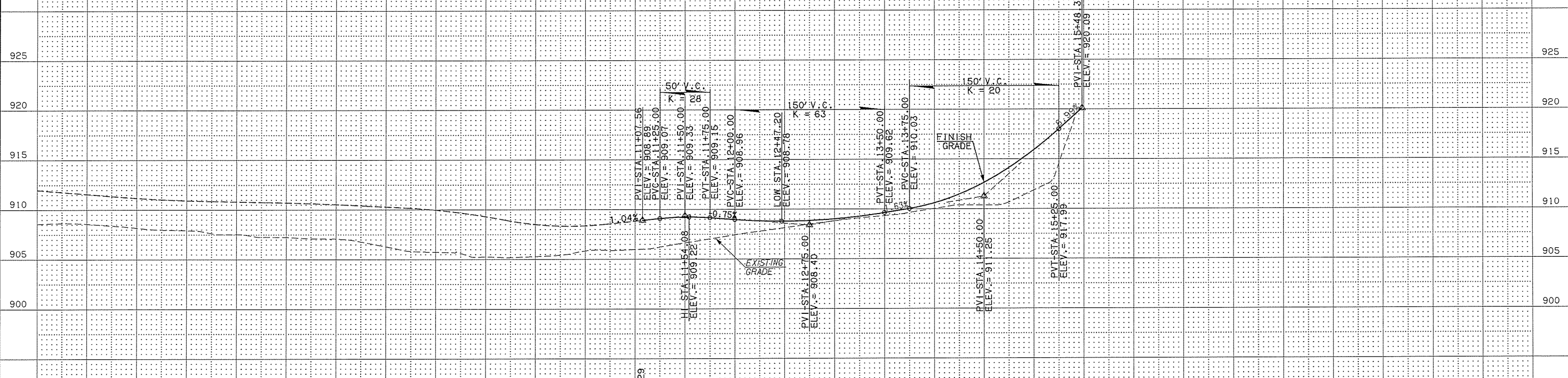


CITY OF <b>stillwater</b>					
FED ROAD DIST NO	STATE	JWP PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		

WESTERN RD. TRAIL N. of McELROY



WESTERN RD. TRAIL S. of McELROY

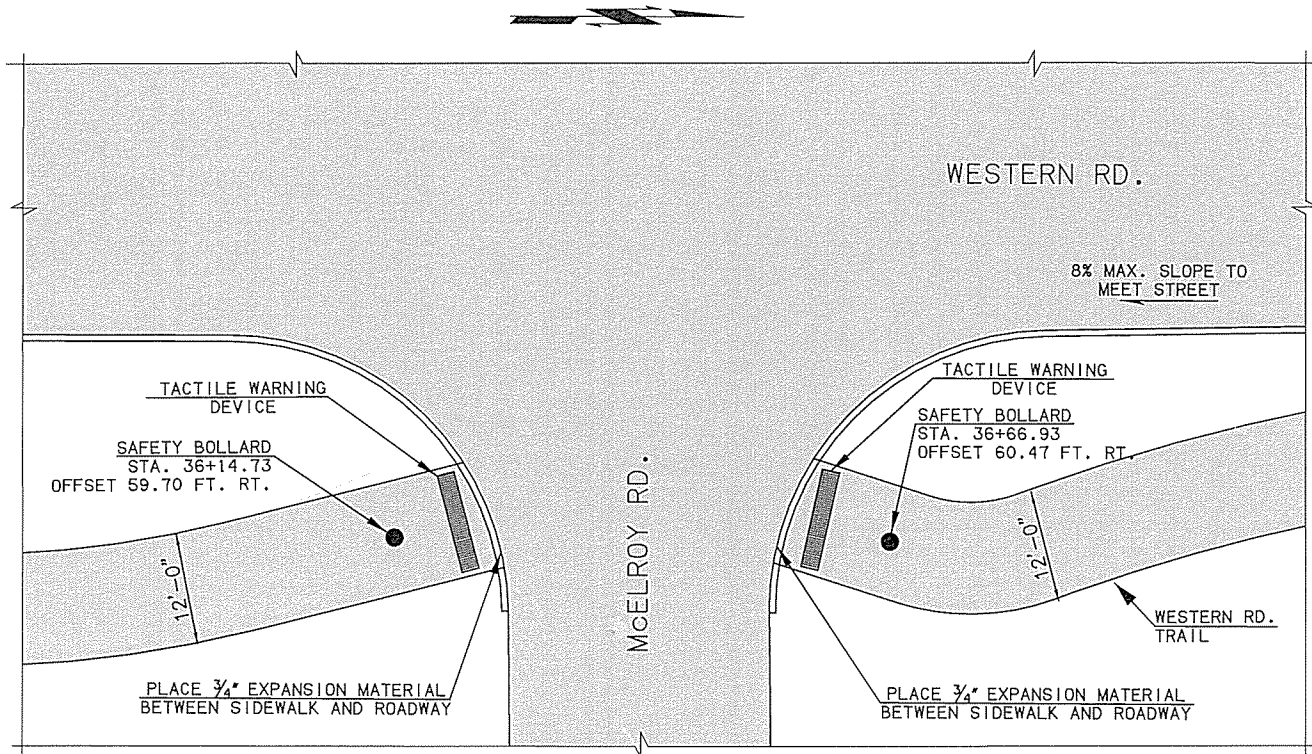


7/13/2016

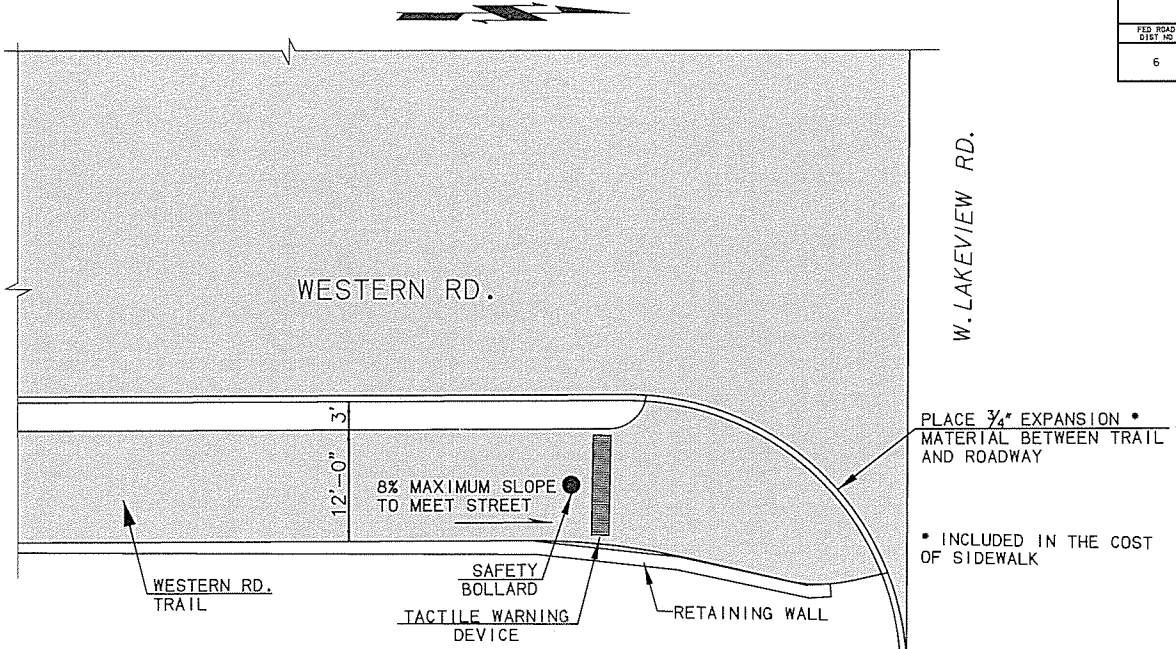
3:24:44 PM

F:\Projects\015-0013\TRNS\DCM\WP2\C\RDWY\_DET\_01.WP2.dgn

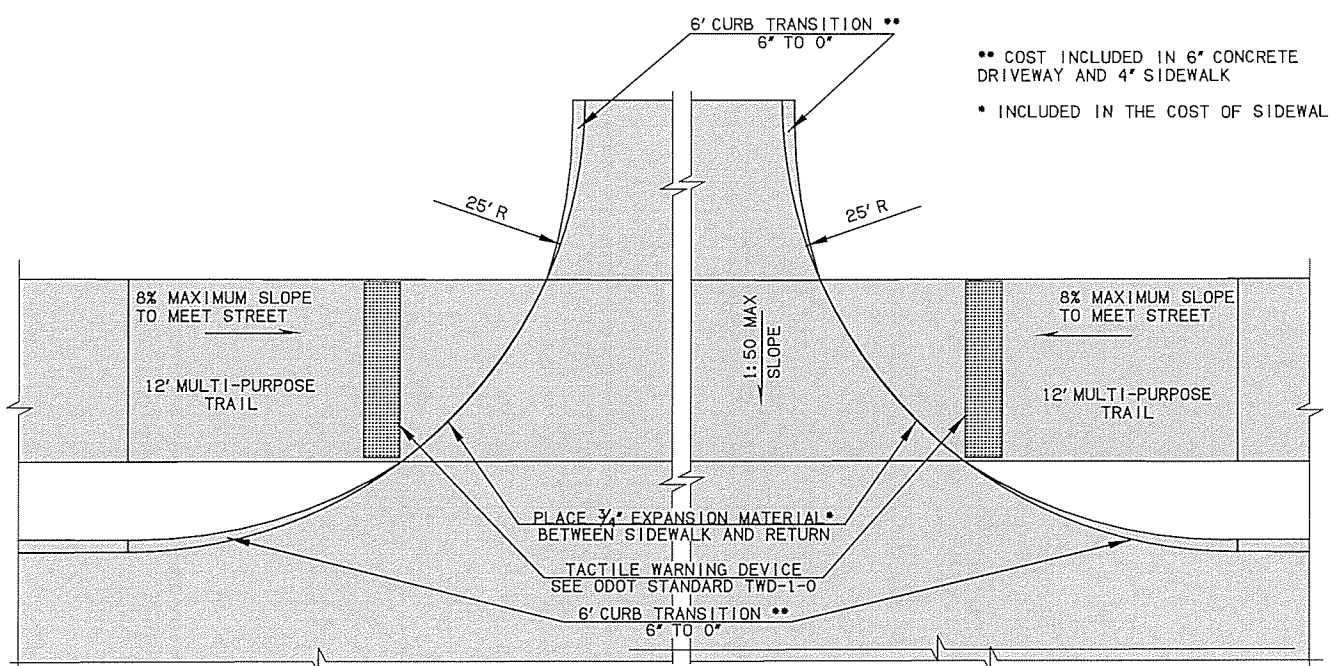
City of <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



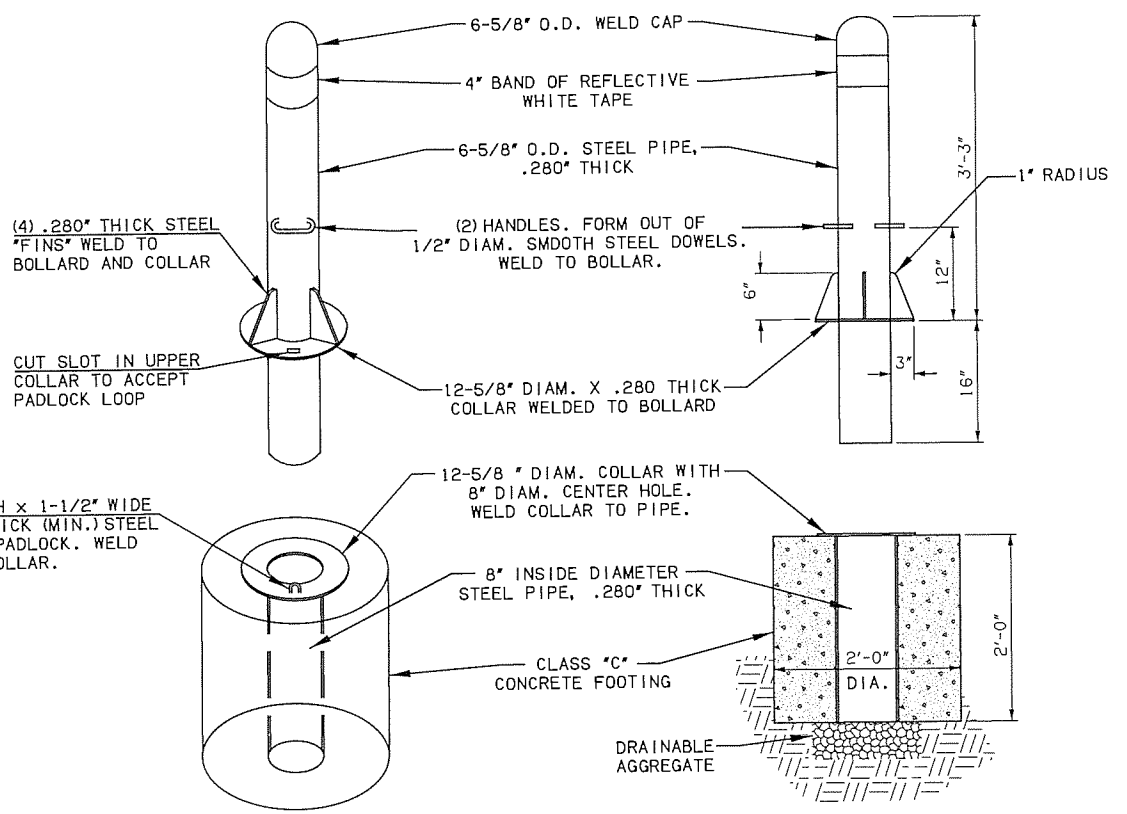
**TRAIL CONNECTION AT McELROY RD. DETAIL**  
N.T.S.



**TRAIL CONNECTION AT W. LAKEVIEW RD. DETAIL**  
N.T.S.



**TRAIL CONNECTION AT DRIVES - TYPE B**  
N.T.S.

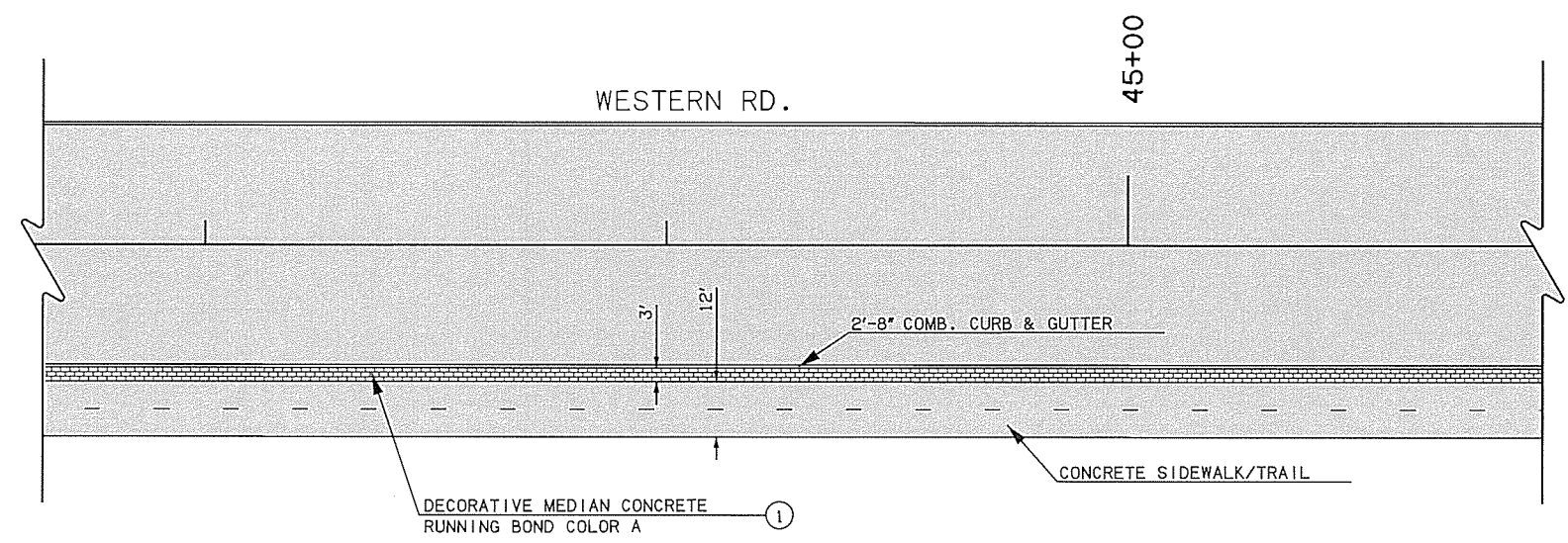
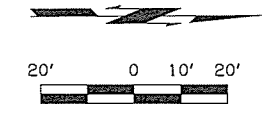


**REMOVABLE BOLLARD DETAIL AT TRAIL**  
N.T.S.

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>ROADWAY DETAILS</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 29

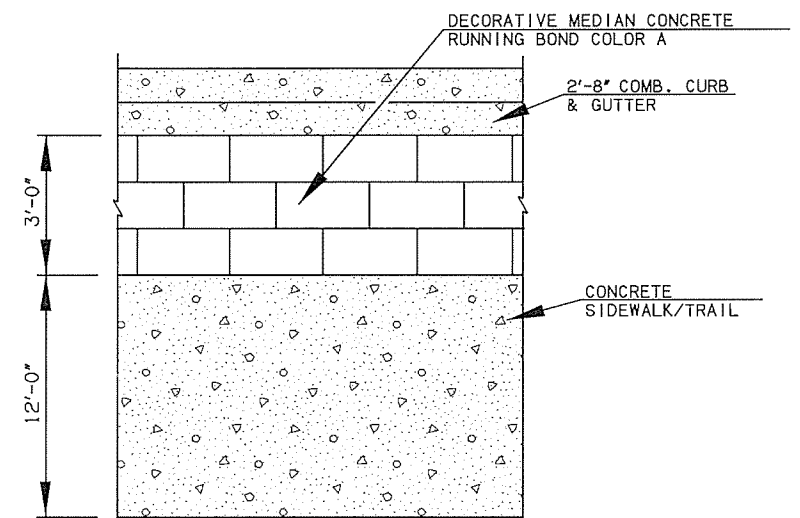


CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



DECORATIVE MEDIAN CONCRETE  
RUNNING BOND COLOR A ①

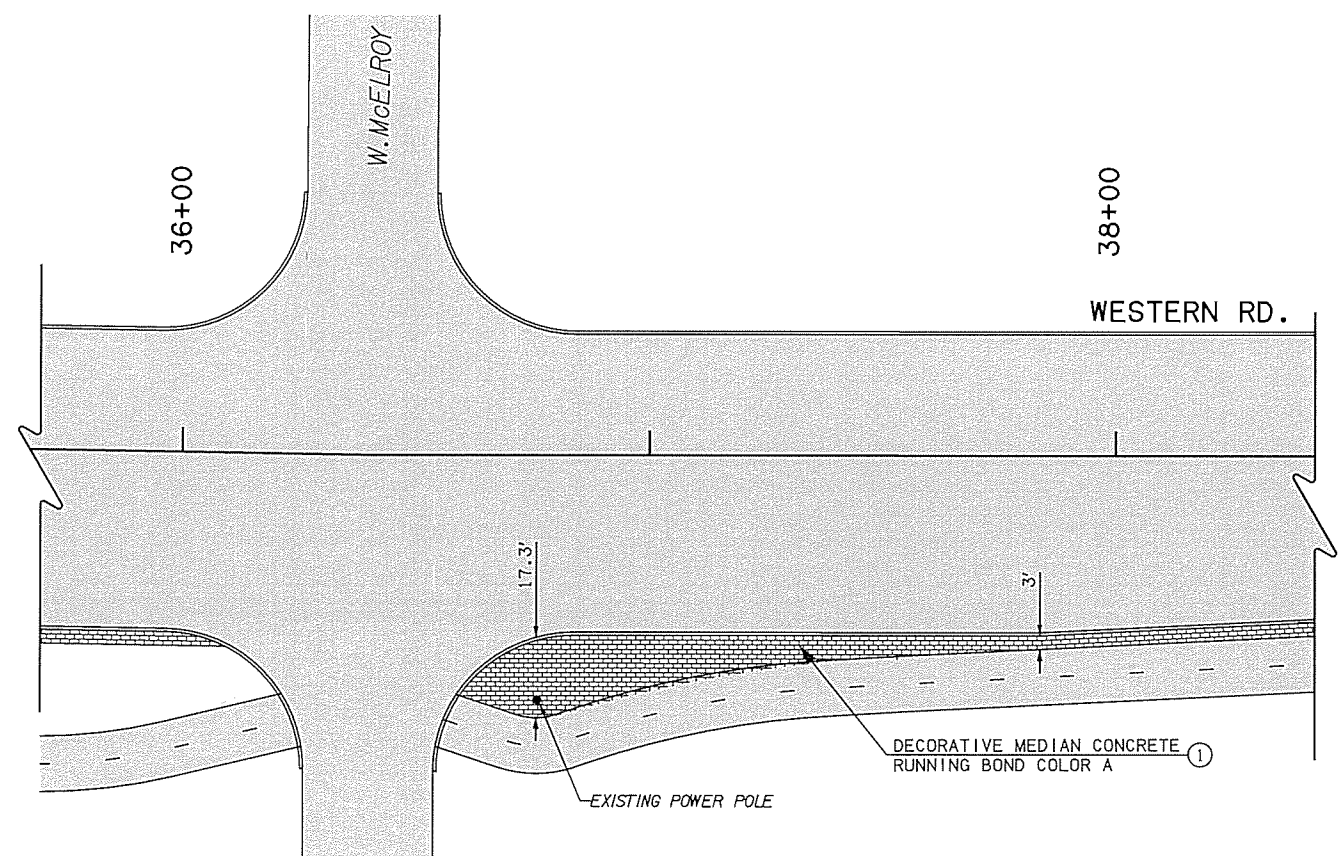
DECORATIVE CONCRETE  
PLACEMENT DETAIL



DECORATIVE CONCRETE  
DETAIL  
N.T.S.

NOTE:

- ① COLOR A: FANCISCAN RED COLOR HARDENER. USE BOMONITE COLOR OR APPROVED EQUAL.

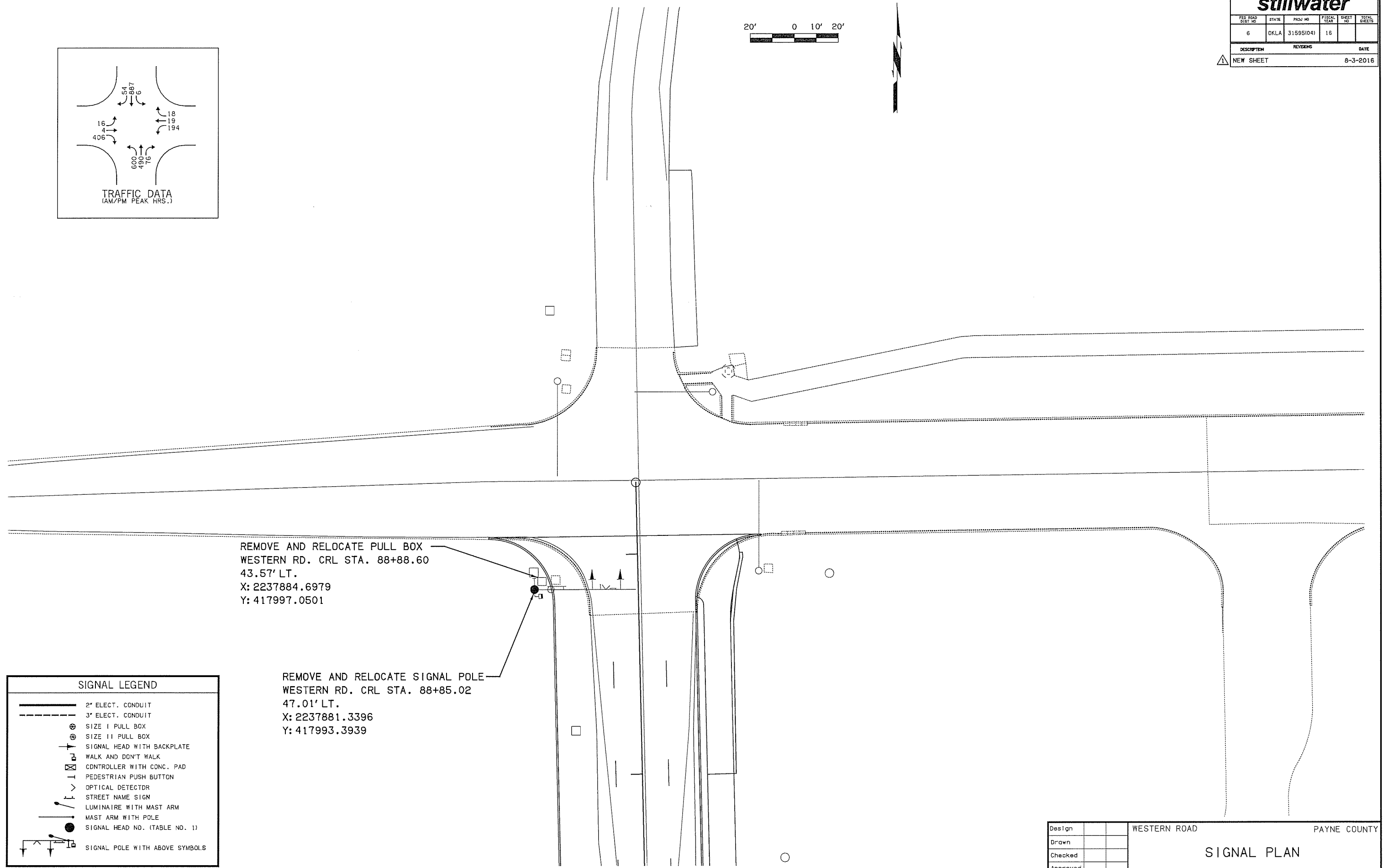
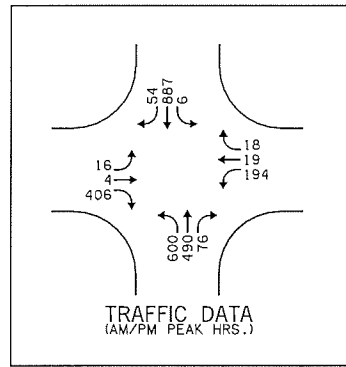


DECORATIVE MEDIAN CONCRETE  
RUNNING BOND COLOR A ①

EXISTING POWER POLE

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>STREETSCAPE</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 30

CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	15		
DESCRIPTION			REVISIONS	DATE	
NEW SHEET				8-3-2016	



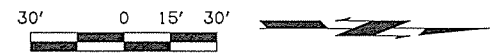
REMOVE AND RELOCATE PULL BOX  
WESTERN RD. CRL STA. 88+88.60  
43.57' LT.  
X: 2237884.6979  
Y: 417997.0501

REMOVE AND RELOCATE SIGNAL POLE  
WESTERN RD. CRL STA. 88+85.02  
47.01' LT.  
X: 2237881.3396  
Y: 417993.3939

SIGNAL LEGEND	
	2" ELECT. CONDUIT
	3" ELECT. CONDUIT
	SIZE I PULL BOX
	SIZE II PULL BOX
	SIGNAL HEAD WITH BACKPLATE
	WALK AND DON'T WALK
	CONTROLLER WITH CONC. PAD
	PEDESTRIAN PUSH BUTTON
	OPTICAL DETECTOR
	STREET NAME SIGN
	LUMINAIRE WITH MAST ARM
	MAST ARM WITH POLE
	SIGNAL HEAD NO. (TABLE NO. 1)
	SIGNAL POLE WITH ABOVE SYMBOLS

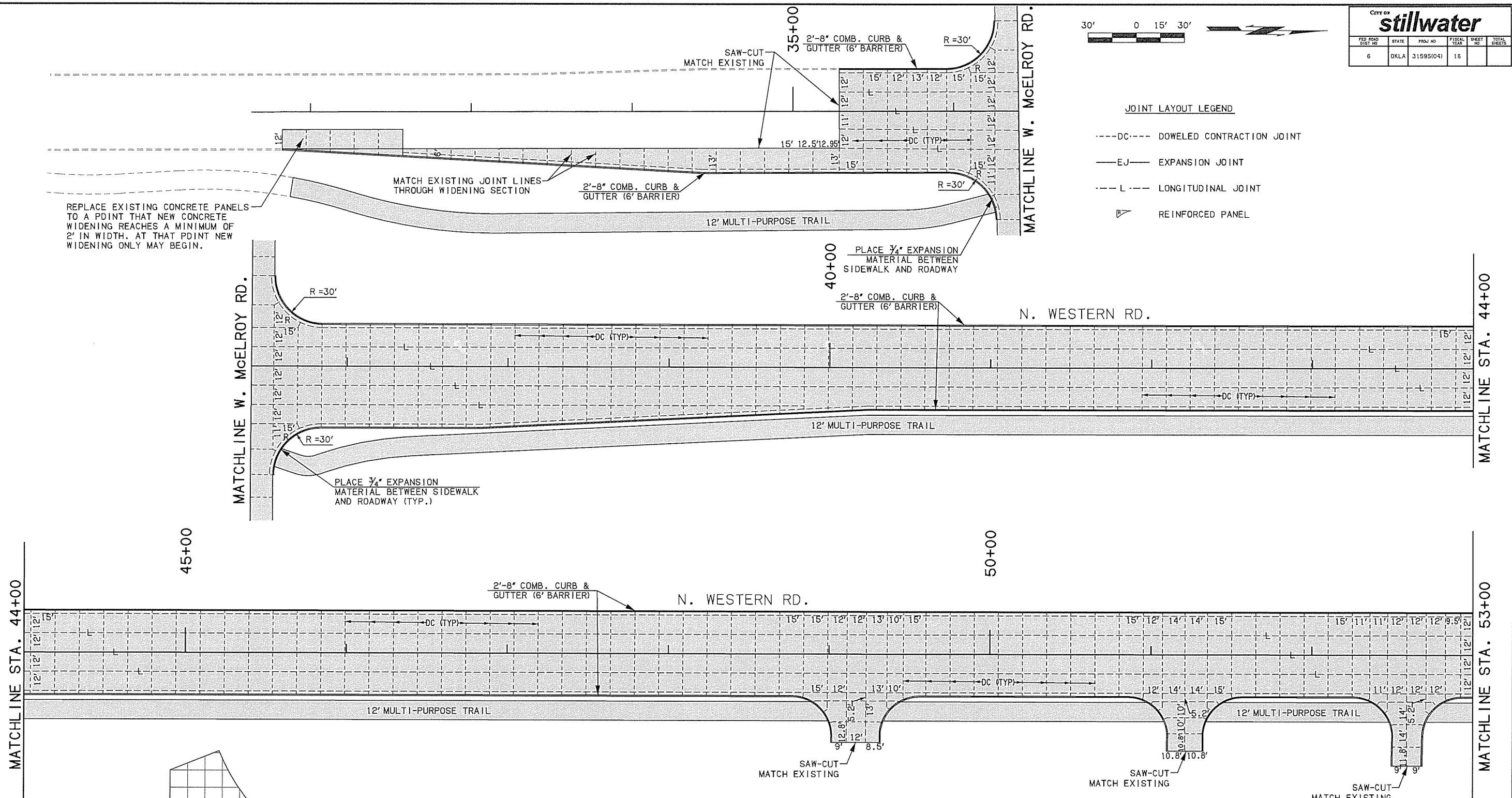
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SIGNAL PLAN</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
Project No. 31595(04)		Sheet No. 30A	

CITY OF <b>Stillwater</b>					
PROJECT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



**JOINT LAYOUT LEGEND**

- DC--- DOWELED CONTRACTION JOINT
- EJ— EXPANSION JOINT
- L--- LONGITUDINAL JOINT
- ▴ REINFORCED PANEL



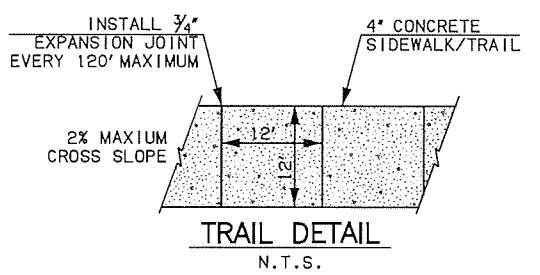
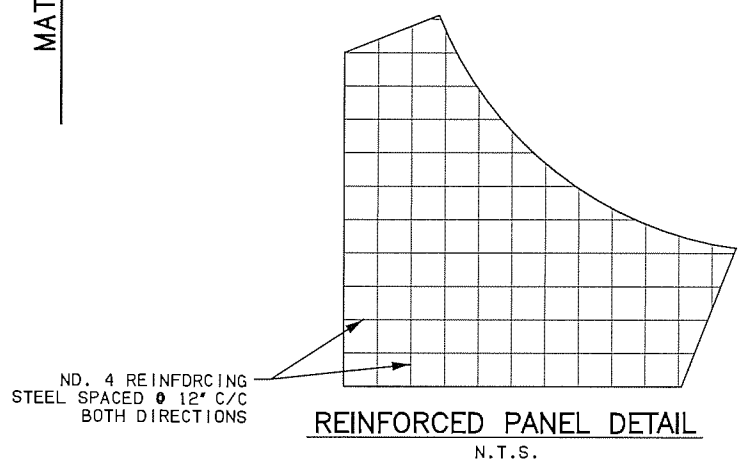
REPLACE EXISTING CONCRETE PANELS TO A POINT THAT NEW CONCRETE WIDENING REACHES A MINIMUM OF 2' IN WIDTH. AT THAT POINT NEW WIDENING ONLY MAY BEGIN.

MATCH EXISTING JOINT LINES THROUGH WIDENING SECTION

SAW-CUT MATCH EXISTING

PLACE 3/4" EXPANSION MATERIAL BETWEEN SIDEWALK AND ROADWAY

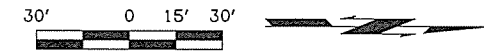
PLACE 3/4" EXPANSION MATERIAL BETWEEN SIDEWALK AND ROADWAY (TYP.)



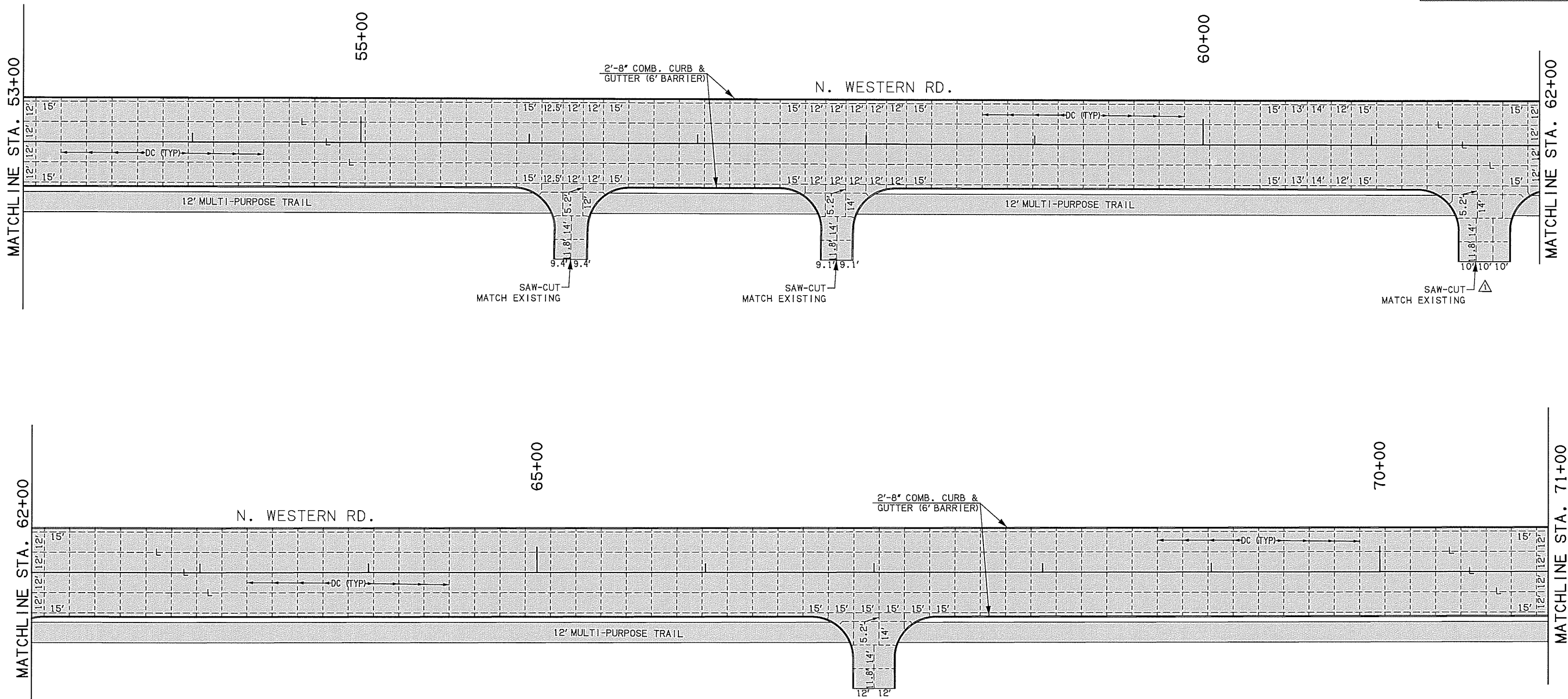
**NOTES:**

1. TRANSVERSE JOINTS SHALL BE PLACED AT 15 FOOT SPACING UNLESS OTHERWISE NOTED.
2. SEE ODOT STD. LECS-4 & LTU-4 (CURRENT REVISION) FOR DOWEL BAR & TIE BAR DETAILS.
3. SEE JOINT LAYOUT DETAIL SHEET FOR REINFORCEMENT PANEL DETAILS AND SIDEWALK DETAILS.
4. FOR ADDITIONAL INFORMATION SEE ODOT STD. ASCD-5 & CSCD-5.
5. MAINTAIN GUTTER FLOWLINE ACROSS DRIVES.
6. ALL PANELS HAVING GREATER THAN 1.5 TO 1 RATIO ON SIDES AND ALL ODD SHAPED PANELS SHALL BE REINFORCED WHETHER OR NOT DESIGNATED AS "R" ON THE PLANS.

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>JOINT LAYOUT (1)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 31



CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	DKLA	31595(04)	16		
DESCRIPTION			REVISIONS	DATE	
REVISED DRIVE				8-3-2016	



**JOINT LAYOUT LEGEND**

- DC---- DOWELED CONTRACTION JOINT
- EJ— EXPANSION JOINT
- L--- LONGITUDINAL JOINT
- REINFORCED PANEL

**NOTES:**

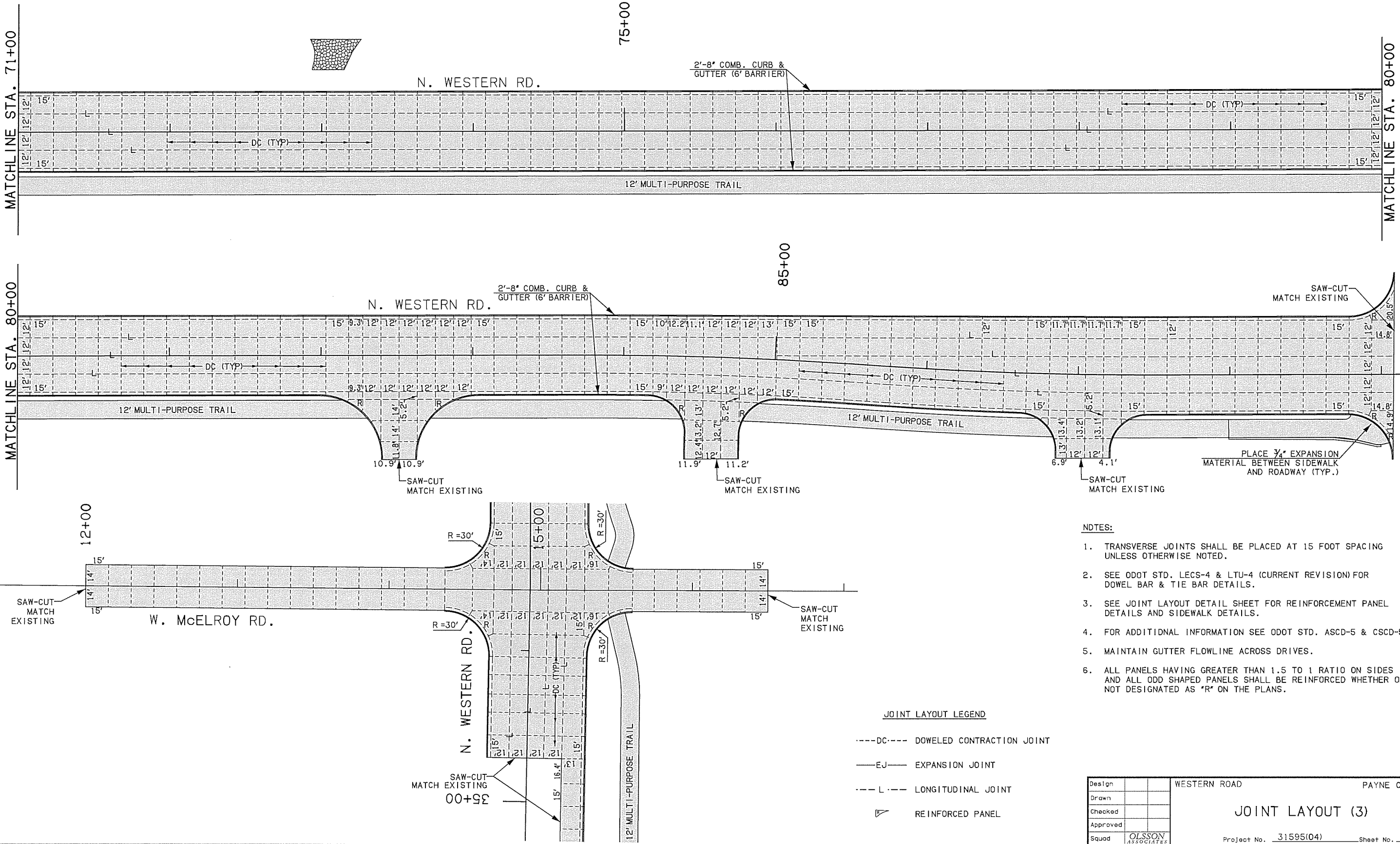
1. TRANSVERSE JOINTS SHALL BE PLACED AT 15 FOOT SPACING UNLESS OTHERWISE NOTED.
2. SEE ODOT STD. LECS-4 & LTU-4 (CURRENT REVISION) FOR DOWEL BAR & TIE BAR DETAILS.
3. SEE JOINT LAYOUT DETAIL SHEET FOR REINFORCEMENT PANEL DETAILS AND SIDEWALK DETAILS.
4. FOR ADDITIONAL INFORMATION SEE ODOT STD. ASCD-5 & CSCD-5.
5. MAINTAIN GUTTER FLOWLINE ACROSS DRIVES.
6. ALL PANELS HAVING GREATER THAN 1.5 TO 1 RATIO ON SIDES AND ALL ODD SHAPED PANELS SHALL BE REINFORCED WHETHER OR NOT DESIGNATED AS "R" ON THE PLANS.

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>JOINT LAYOUT (2)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 32





City of <b>stillwater</b>				
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.
6	OKLA	31595(04)	16	
				TOTAL SHEETS
				16



**NOTES:**

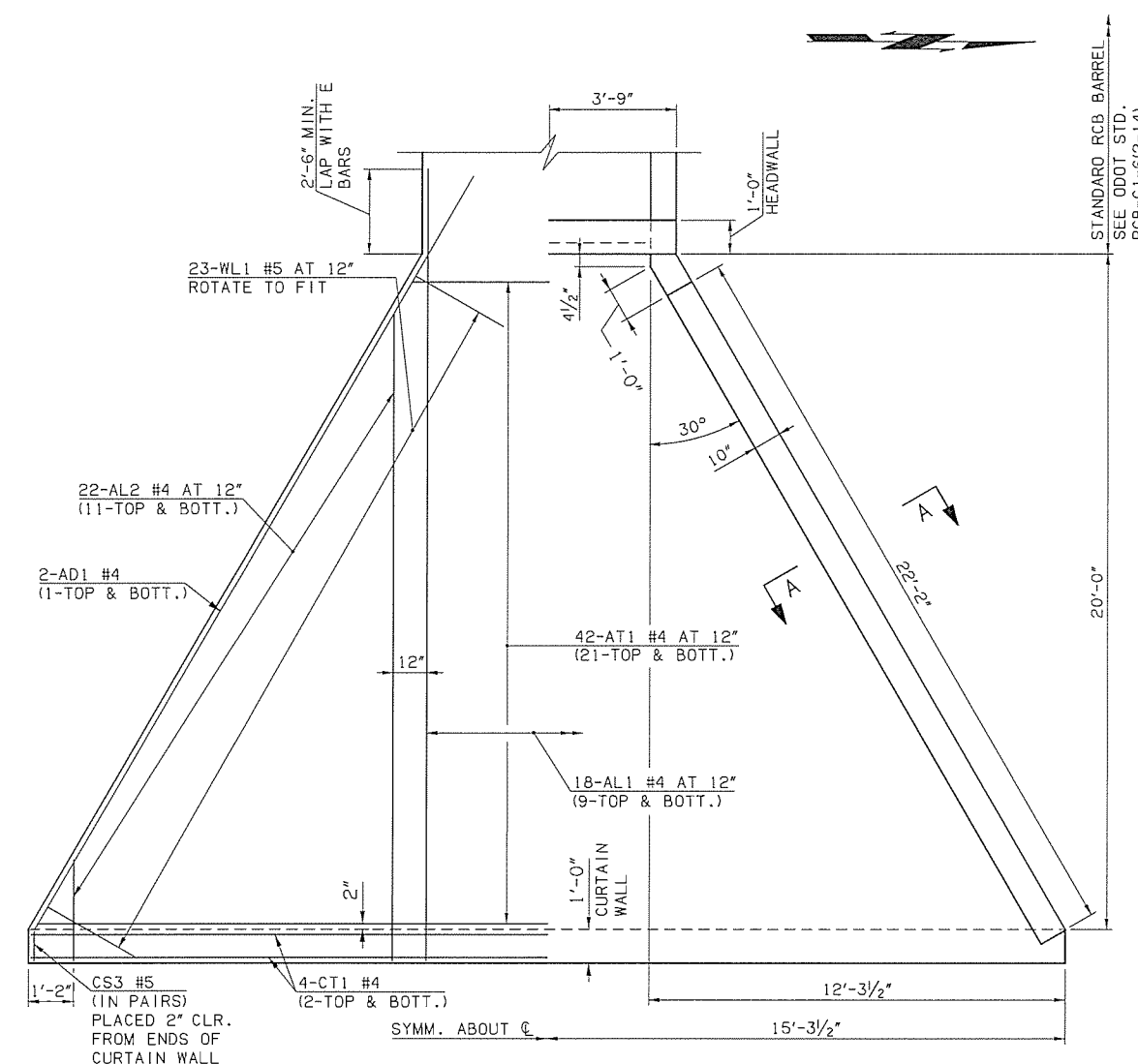
1. TRANSVERSE JOINTS SHALL BE PLACED AT 15 FOOT SPACING UNLESS OTHERWISE NOTED.
2. SEE ODOT STD. LECS-4 & LTU-4 (CURRENT REVISION) FOR DOWEL BAR & TIE BAR DETAILS.
3. SEE JOINT LAYOUT DETAIL SHEET FOR REINFORCEMENT PANEL DETAILS AND SIDEWALK DETAILS.
4. FOR ADDITIONAL INFORMATION SEE ODOT STD. ASCD-5 & CSCD-5.
5. MAINTAIN GUTTER FLOWLINE ACROSS DRIVES.
6. ALL PANELS HAVING GREATER THAN 1.5 TO 1 RATIO ON SIDES AND ALL ODD SHAPED PANELS SHALL BE REINFORCED WHETHER OR NOT DESIGNATED AS \*R\* ON THE PLANS.

**JOINT LAYOUT LEGEND**

- DC---- DOWELED CONTRACTION JOINT
- EJ— EXPANSION JOINT
- L--- LONGITUDINAL JOINT
- REINFORCED PANEL

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>JOINT LAYOUT (3)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 33

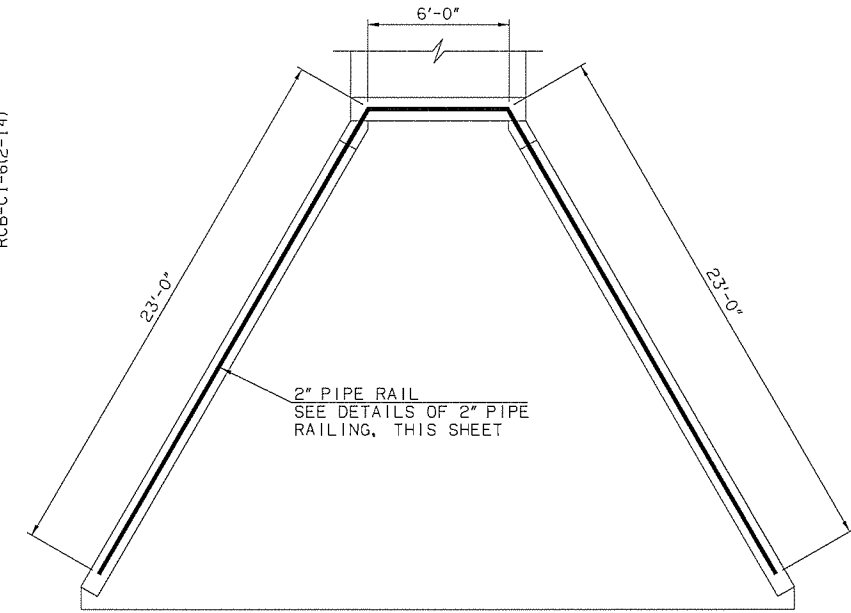
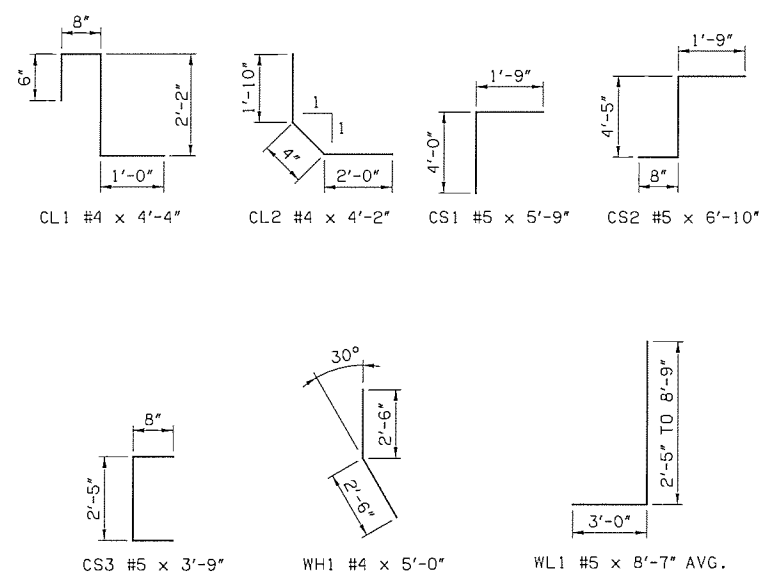




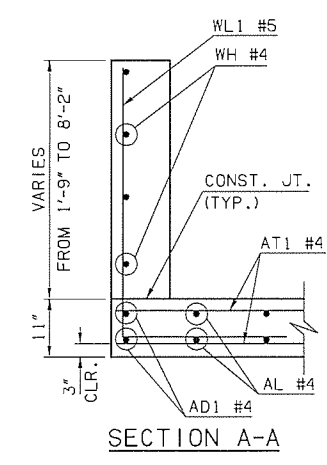
HALF APRON REINFORCING

HALF APRON PLAN

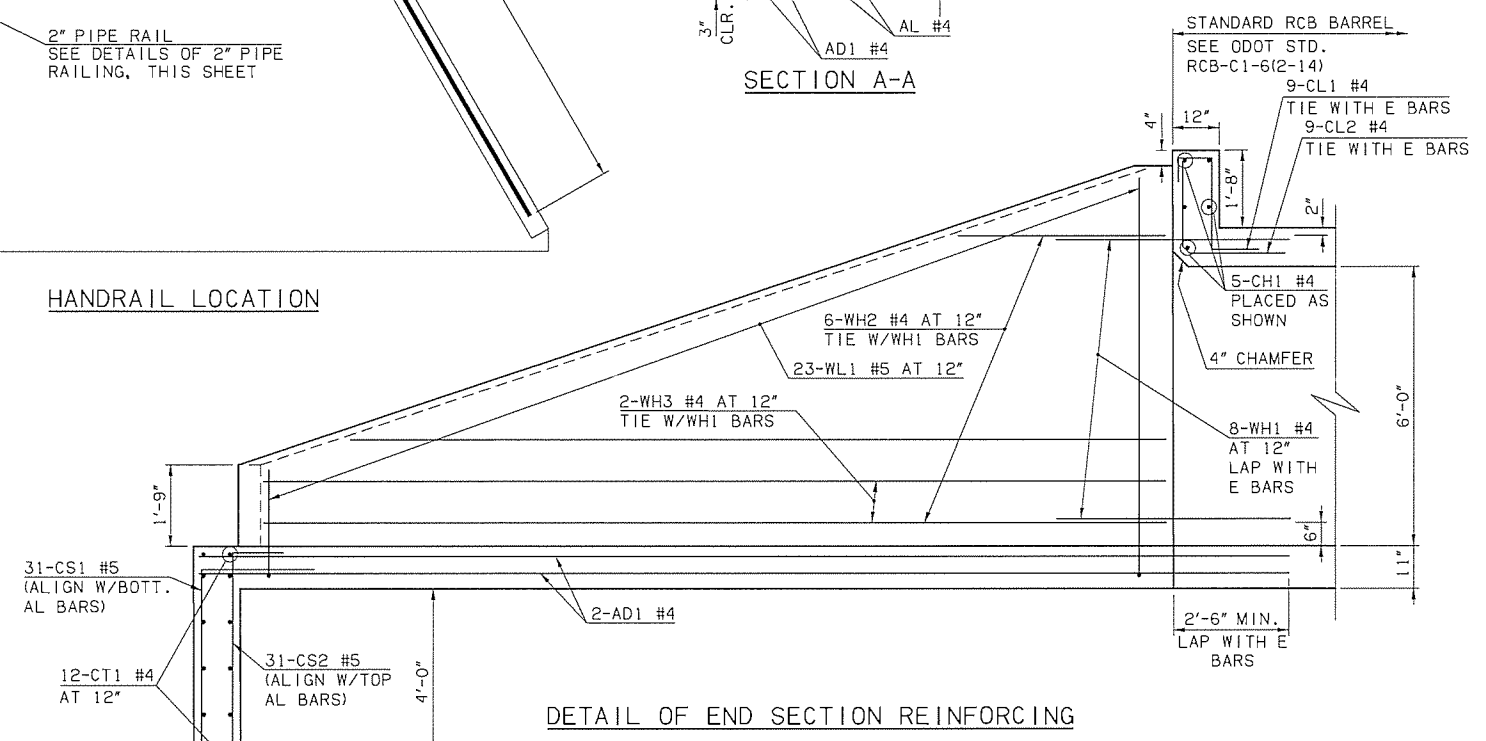
APRON SECTION



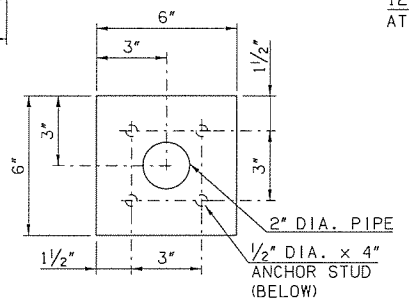
HANDRAIL LOCATION



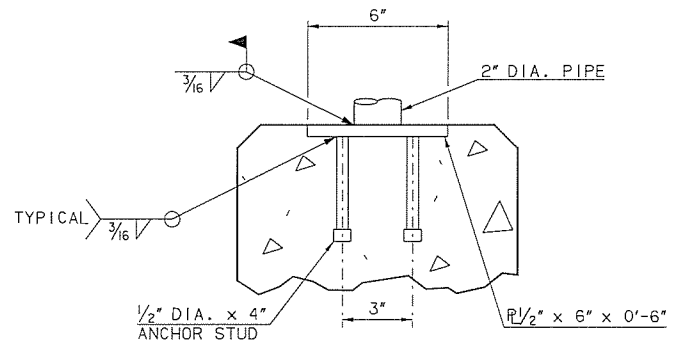
SECTION A-A



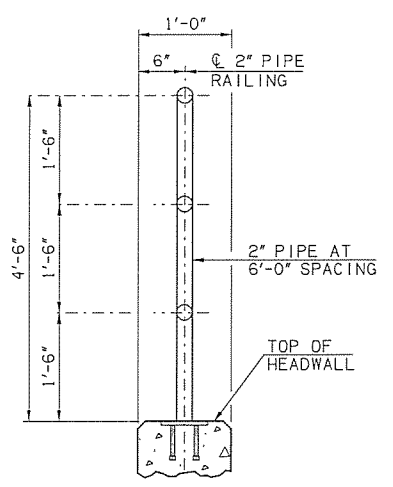
DETAIL OF END SECTION REINFORCING



PLAN AT RAIL BASE PLATE



SECTION AT RAIL BASE PLATE



HANDRAIL AT HEADWALL

DETAILS OF 2" PIPE RAILING

DESIGN DATA

MATERIAL  
 CLASS AA CONCRETE F'C = 4 KSI  
 REINFORCING STEEL F<sub>y</sub> = 60 KSI

LOADING  
 HL-93 OR OKLAHOMA OVERLOAD TRUCK

DESIGN  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION

GENERAL NOTES

- ALL CONCRETE EDGES WILL HAVE A 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS WILL BE SIZED LUMBER.
- ALL REINFORCING STEEL WILL HAVE A 2" MINIMUM CLEAR COVER UNLESS OTHERWISE SHOWN.
- FOR E BARS, REFER TO ODOT STANDARD RCB-C1-6(2-14)

BAR LIST - END SECTION

MARK	SIZE	QTY	FORM	LENGTH	REMARKS
AD1	# 4	4	STR	25'-4"	
AL1	# 4	18	STR	23'-4"	
AL2	# 4	44	STR	10'-9" AVG.	2'-6" TO 19'-0"
AT1	# 4	42	STR	19'-1" AVG.	8'-0" TO 30'-3"
CH1	# 4	5	STR	7'-1"	
CL1	# 4	9	BNT	4'-4"	
CL2	# 4	9	BNT	4'-2"	
CS1	# 5	31	BNT	5'-9"	
CS2	# 5	31	BNT	6'-10"	
CS3	# 5	4	BNT	3'-9"	
CT1	# 4	12	STR	30'-3"	
WH1	# 4	16	BNT	5'-0"	
WH2	# 4	12	STR	11'-2" AVG.	4'-1" TO 18'-3"
WH3	# 4	4	STR	22'-0"	
WL1	# 5	46	BNT	8'-7" AVG.	5'-5" TO 11'-9"

QUANTITIES

ITEM	UNIT	TOTAL
CLASS AA CONCRETE	CY	26.00
REINFORCING STEEL	LB	2560.00
2" PIPE RAILING	LF	52.00

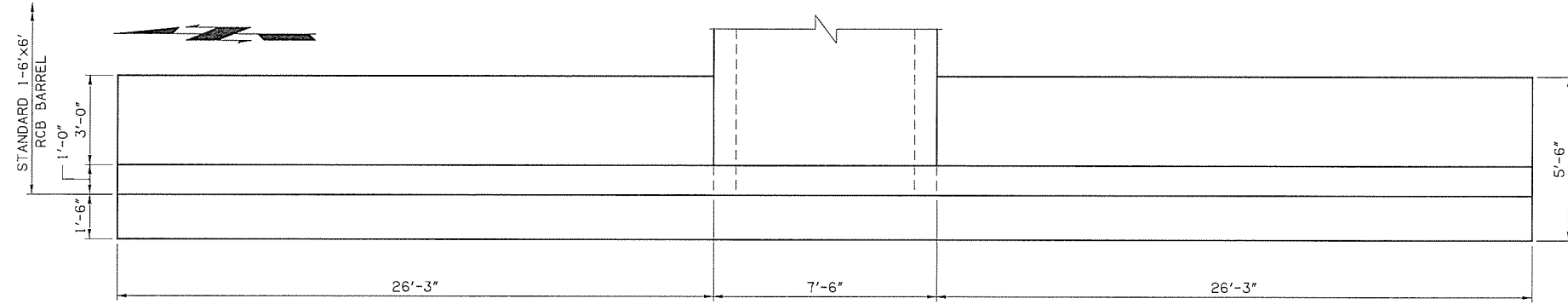
Design	
Drawn	
Checked	
Approved	
Squad	OLSSON ASSOCIATES

WESTERN ROAD PAYNE COUNTY

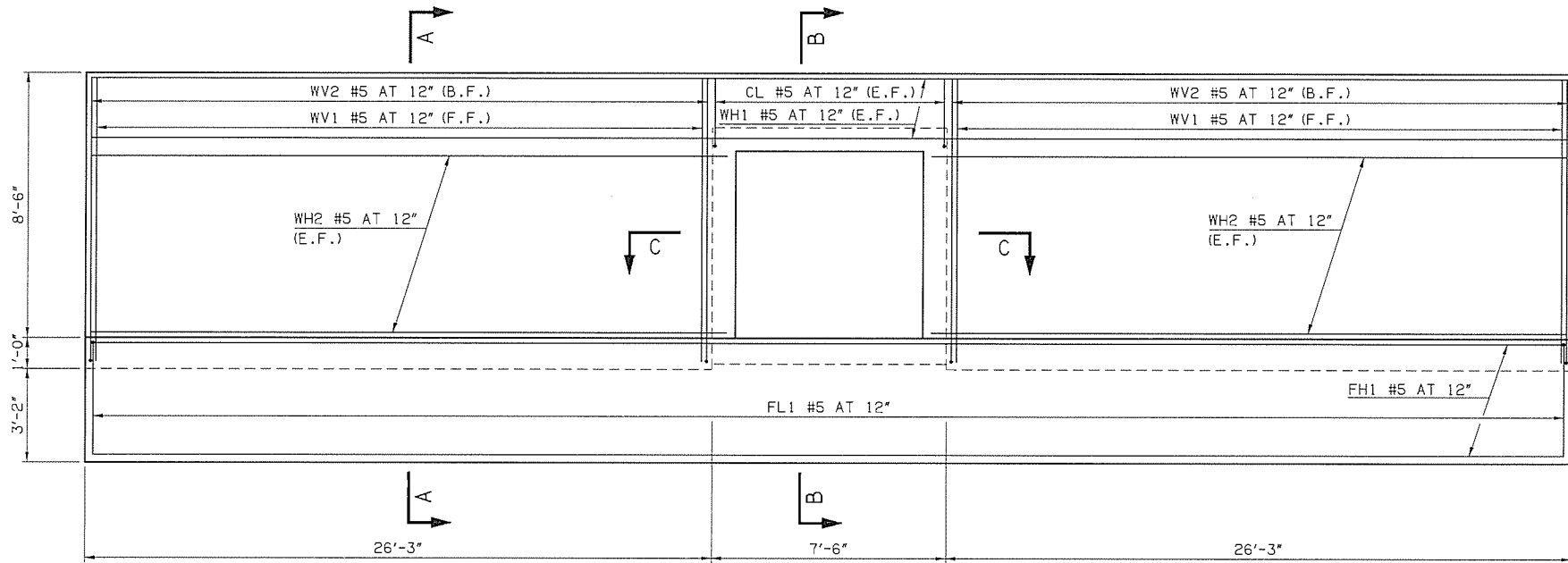
**DRAINAGE DETAILS (01)**  
 STRUCTURE NO. 28

Project No. 31595(04) Sheet No. 34

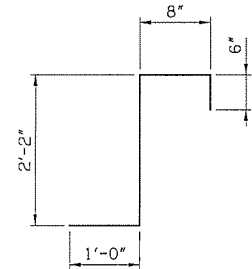
CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		



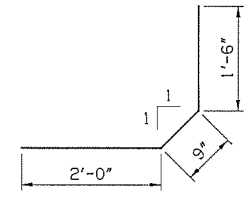
PLAN



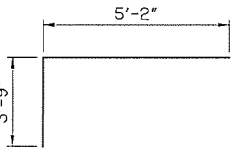
ELEVATION



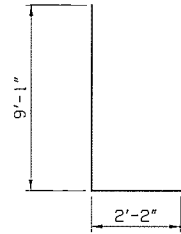
CL1 #5 x 4'-4"



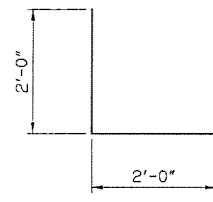
CL2 #5 x 4'-3"



FL1 #5 x 8'-11"



WV2 #5 x 11'-3"

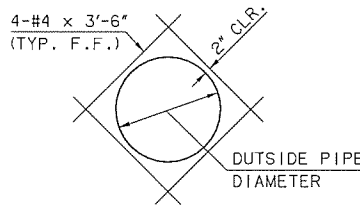


WH3 #4 x 4'-0"

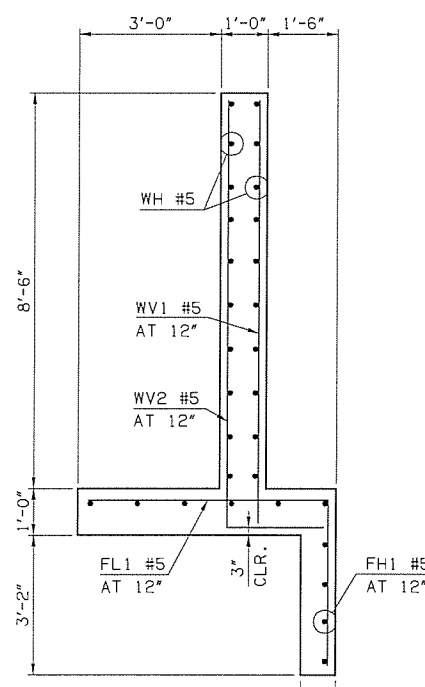
- NOTES:
- FOR ELEVATIONS SEE SUMMARY OF DRAINAGE STRUCTURES.
  - FOR LOCATIONS SEE ROADWAY PLAN SHEETS.
  - ALL REINFORCING STEEL WILL BE GRADE 60 AND HAVE A 2" MINIMUM CLEARANCE UNLESS OTHERWISE SHOWN ON THE PLANS.
  - ALL CONCRETE EDGES WILL HAVE A 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS WILL BE SIZED LUMBER.
  - FOR A, B, AND E BARS, REFER TO ODOT STANDARD RCB-C1-6(2-14)

BAR LIST STR. NO. 28					
PLAIN REINFORCING					
MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
CL1	#5	8	BNT.	4'-4"	
CL2	#5	8	BNT.	4'-3"	
FH1	#5	10	STR.	59'-8"	
FL1	#5	62	BNT.	8'-11"	
WH1	#5	7	STR.	59'-8"	
WH2	#5	28	STR.	26'-8"	
WH3	#4	20	BNT.	4'-0"	
WV1	#5	54	STR.	9'-1"	
WV2	#5	54	BNT.	11'-3"	

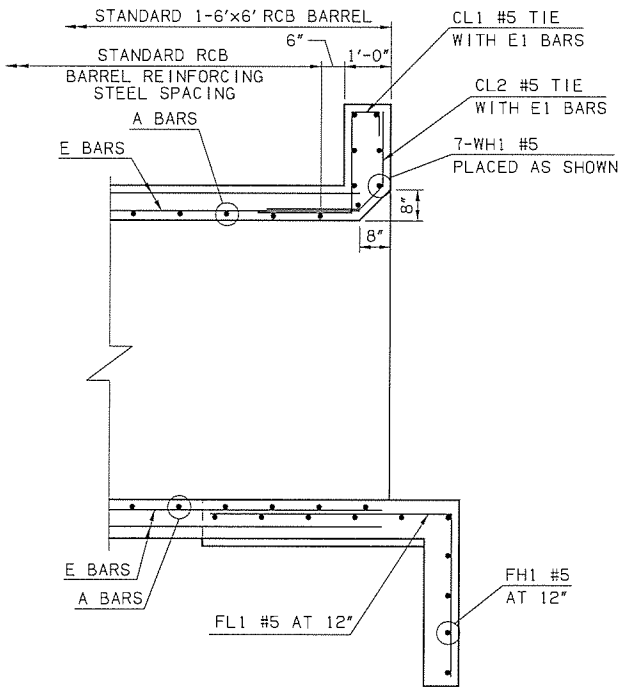
QUANTITIES STR. NO. 28		
ITEM	UNIT	TOTAL
CLASS AA CONCRETE	CY	34.90
REINFORCING STEEL	LB	3690.00



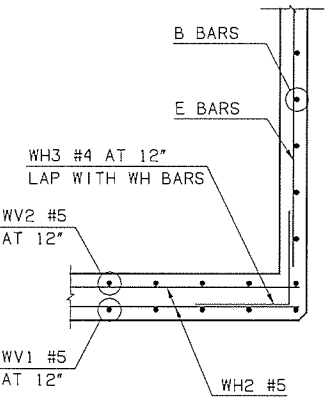
TYPICAL PIPE PENETRATION DETAIL



SECTION A-A



SECTION B-B



SECTION C-C

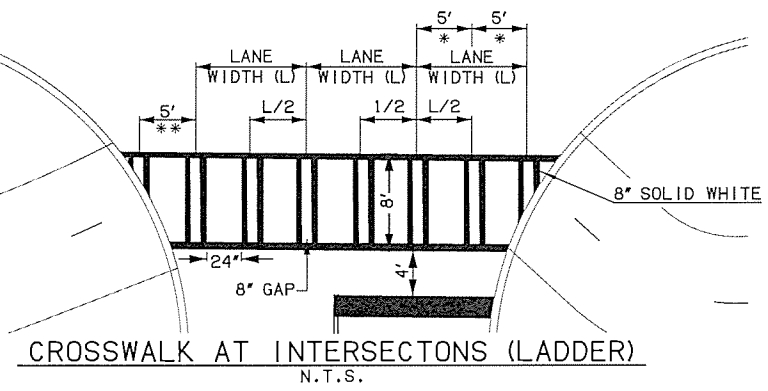
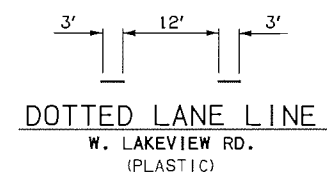
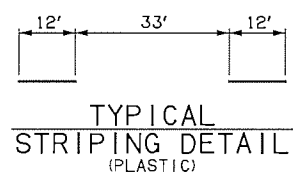
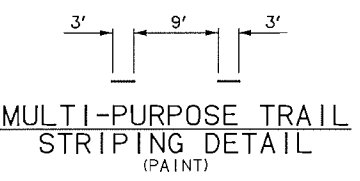
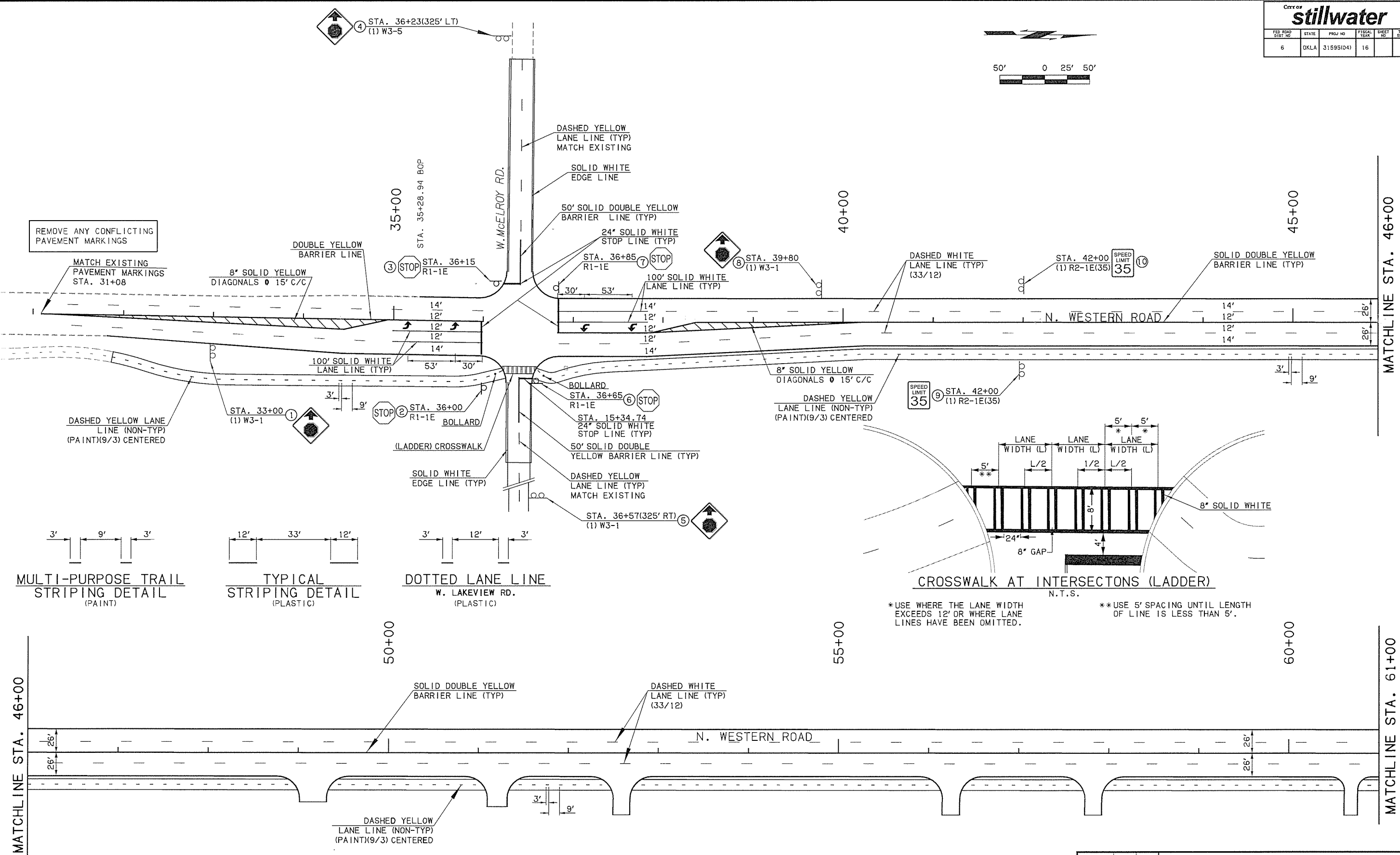
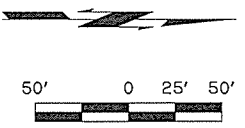
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		DRAINAGE DETAILS (02) STRUCTURE NO. 28	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 35

7/13/2016

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City of <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		



\*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED.  
 \*\*USE 5' SPACING UNTIL LENGTH OF LINE IS LESS THAN 5'.

MATCHLINE STA. 46+00

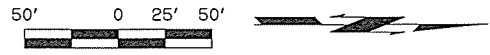
MATCHLINE STA. 61+00

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		SIGNING AND STRIPING (1)	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
		Project No. 31595(04)	Sheet No. 36

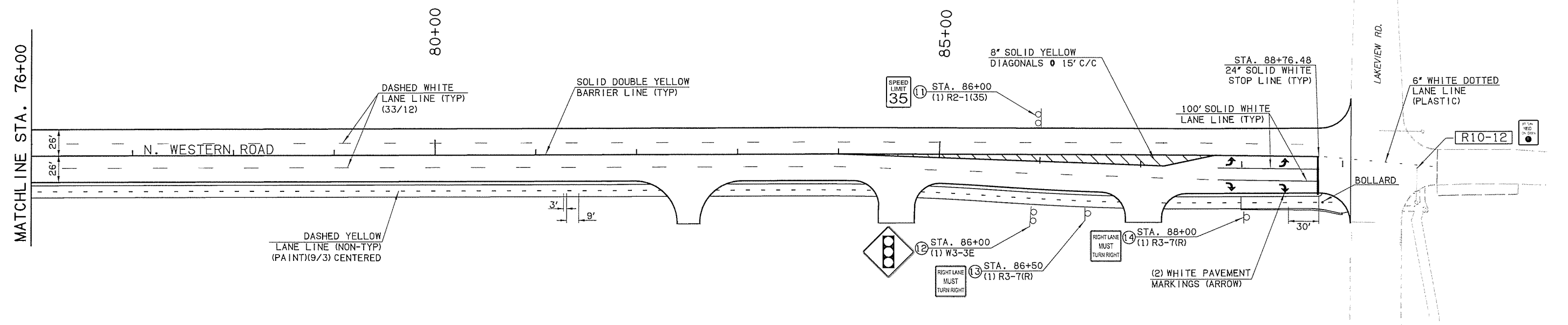
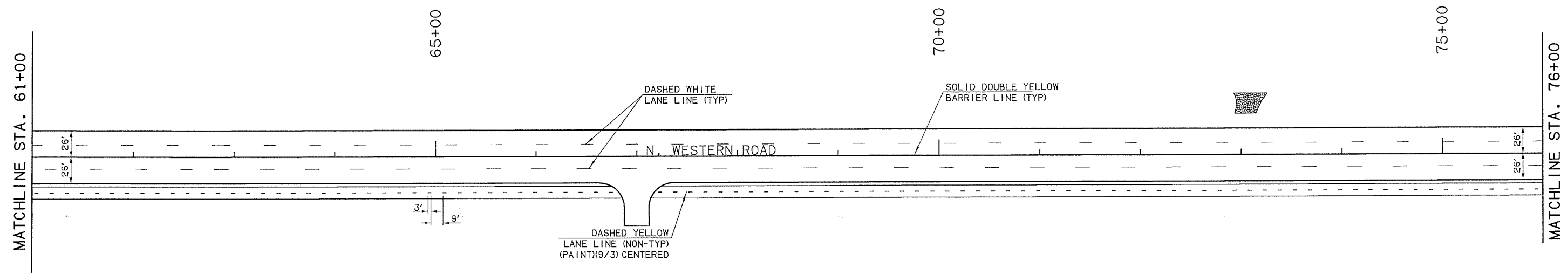
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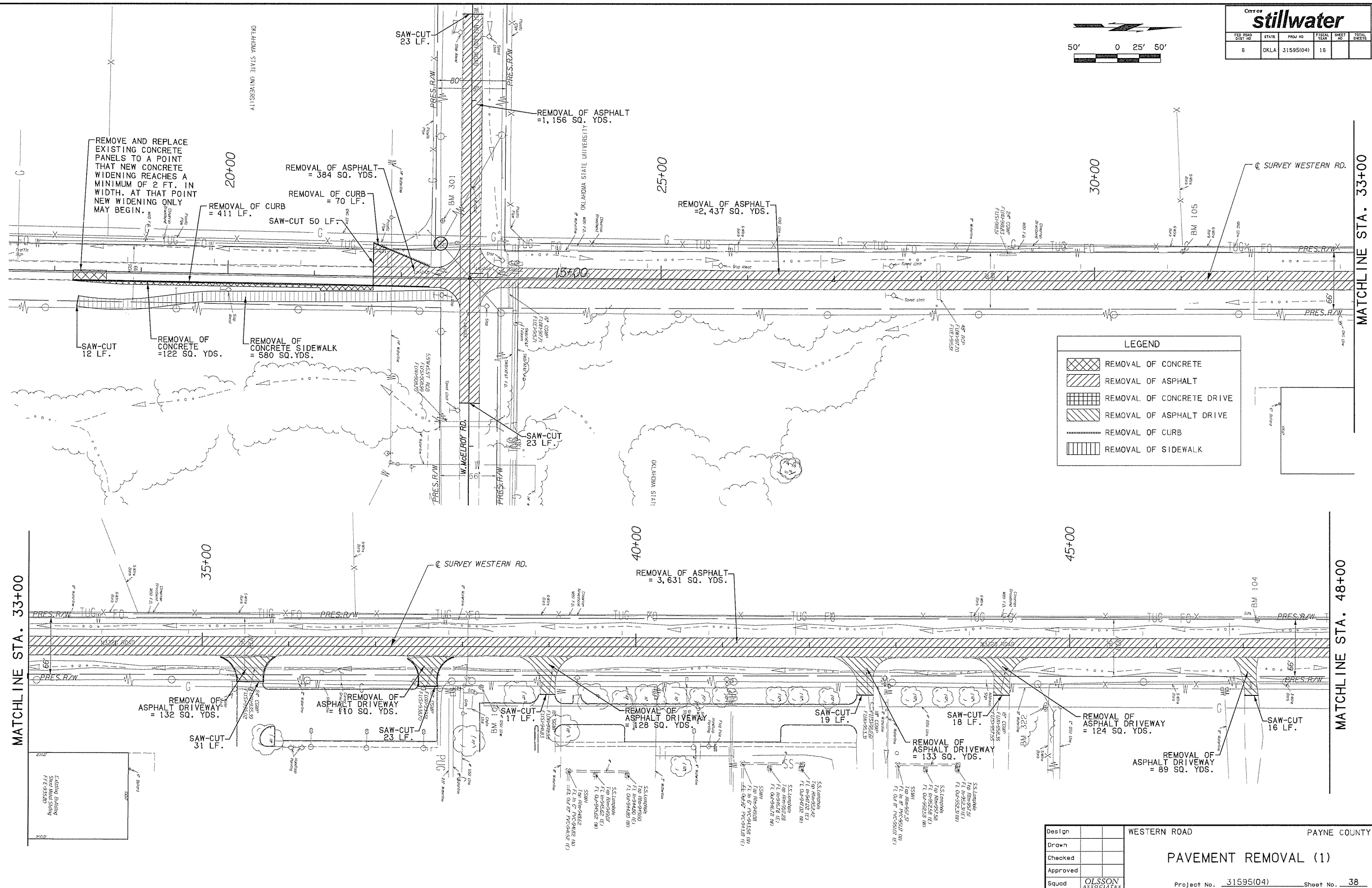
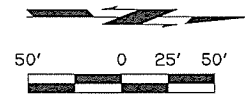
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City of <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		



Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SIGNING AND STRIPING (2)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 37



**LEGEND**

	REMOVAL OF CONCRETE
	REMOVAL OF ASPHALT
	REMOVAL OF CONCRETE DRIVE
	REMOVAL OF ASPHALT DRIVE
	REMOVAL OF CURB
	REMOVAL OF SIDEWALK

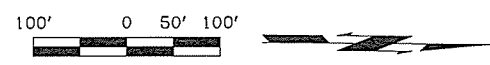
MATCHLINE STA. 33+00

MATCHLINE STA. 48+00

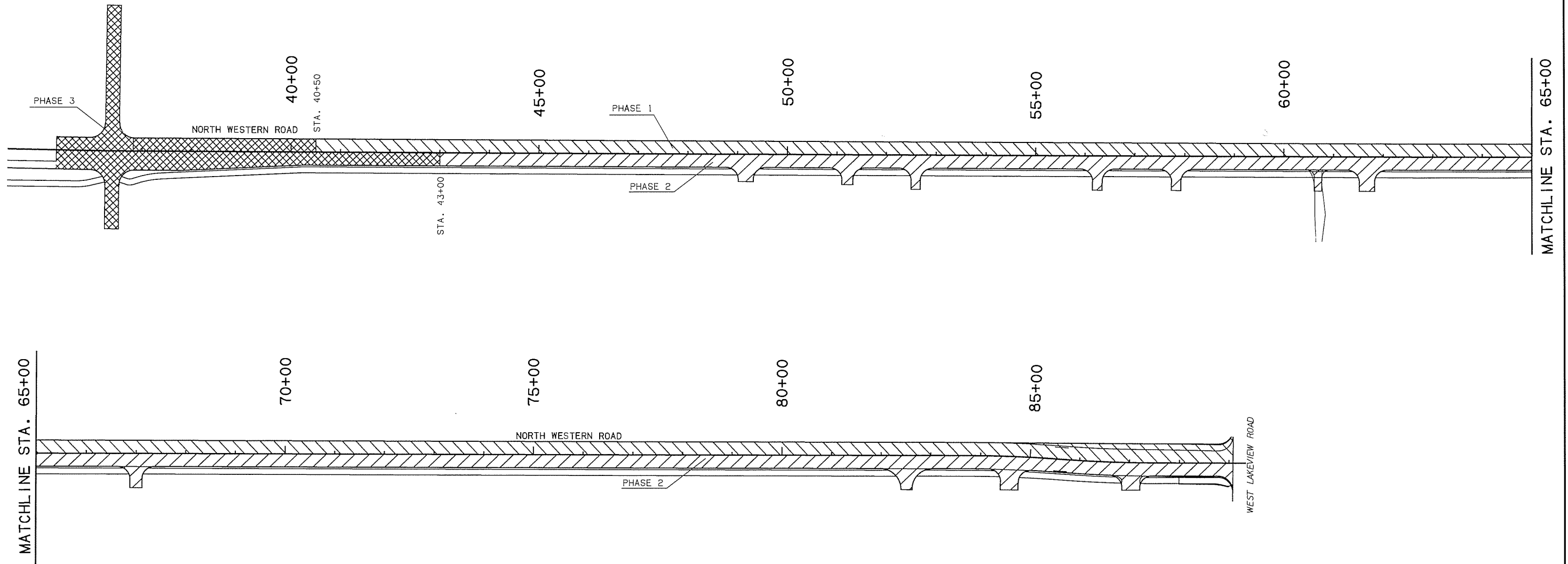
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>PAVEMENT REMOVAL (1)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 38







CITY OF <b>stillwater</b>					
FIS ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISION	DATE	
REVISED PHASING				8-3-2016	



**△ SUGGESTED SEQUENCE OF CONSTRUCTION:**

- PHASE 1:**  
 CONSTRUCT THE NEW SOUTHBOUND LANES OF WESTERN ROAD FROM STA. 46+00 TO STA. 88+72.90.  
 DURING CONSTRUCTION: TRAFFIC ON WESTERN ROAD WILL REMAIN ON THE EXISTING LANES SEPERATED FROM THE WORK AREA BY PORTABLE LONGITUDINAL BARRIER.
  
- PHASE 2:**  
 CONSTRUCT THE NEW NORTHBOUND LANES OF WESTERN ROAD FROM STA. 46+00 TO STA. 88+72.90.  
 DURING CDNSTRUCTION: NDRTHBOUND AND SDUTHBOUND TRAFFIC ON WESTERN ROAD WILL BE RELOCATED TO THE NEW SOUTHBOUND LANES SEPERATED FROM THE WORK AREA BY PORTABLE LONGITUDINAL BARRIER.
  
- PHASE 3:**  
 CONSTRUCT THE NEW NORTHBOUND AND SOUTHBOUND LANES OF WESTERN ROAD FROM STA. 35+28.94 TO STA. 46+00. ALSO CONSTRUCT BOTH EASTBOUND AND WESTBOUND LANES OF WEST MCELROY ROAD FROM STA. 12+00 TO STA. 16+50.  
 DURING CONSTRUCTION: TRAFFIC ON WESTERN ROAD AND MCELROY ROAD WILL BE DETOURED AROUND THE WDRK AREA AS SHOWN IN THE PLANS.

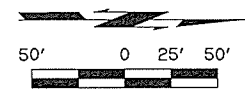
Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUGGESTED SEQUENCE OF CONSTRUCTION</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
Project No. 31595(04)		Sheet No. 40	

8/10/2016

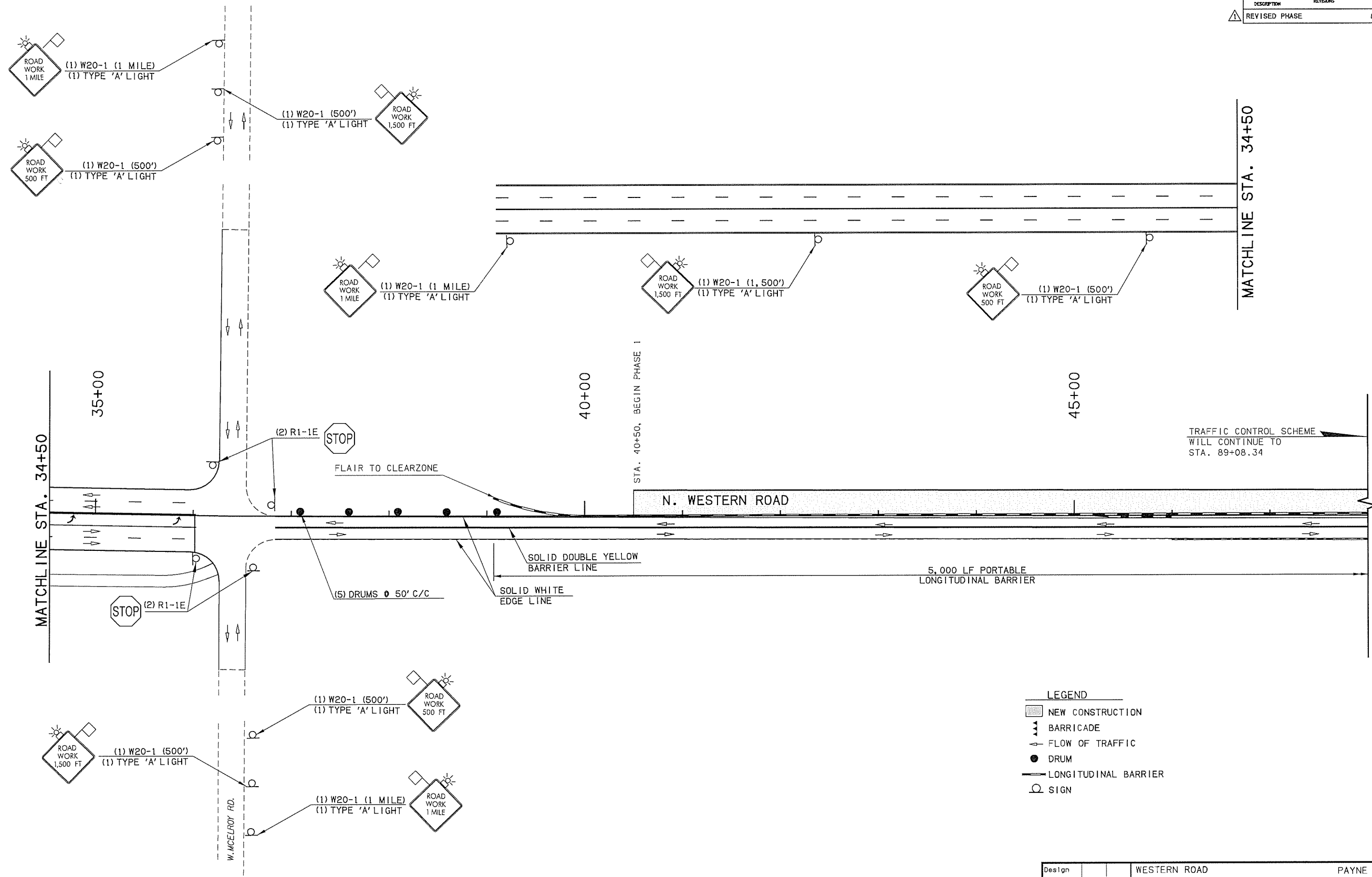
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CITY OF <b>stillwater</b>					
PROJ. NO.	STATE	PROJ. NO.	FISCAL YEAR	DIST. NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISIONS		DATE
REVISED PHASE					8-3-2016

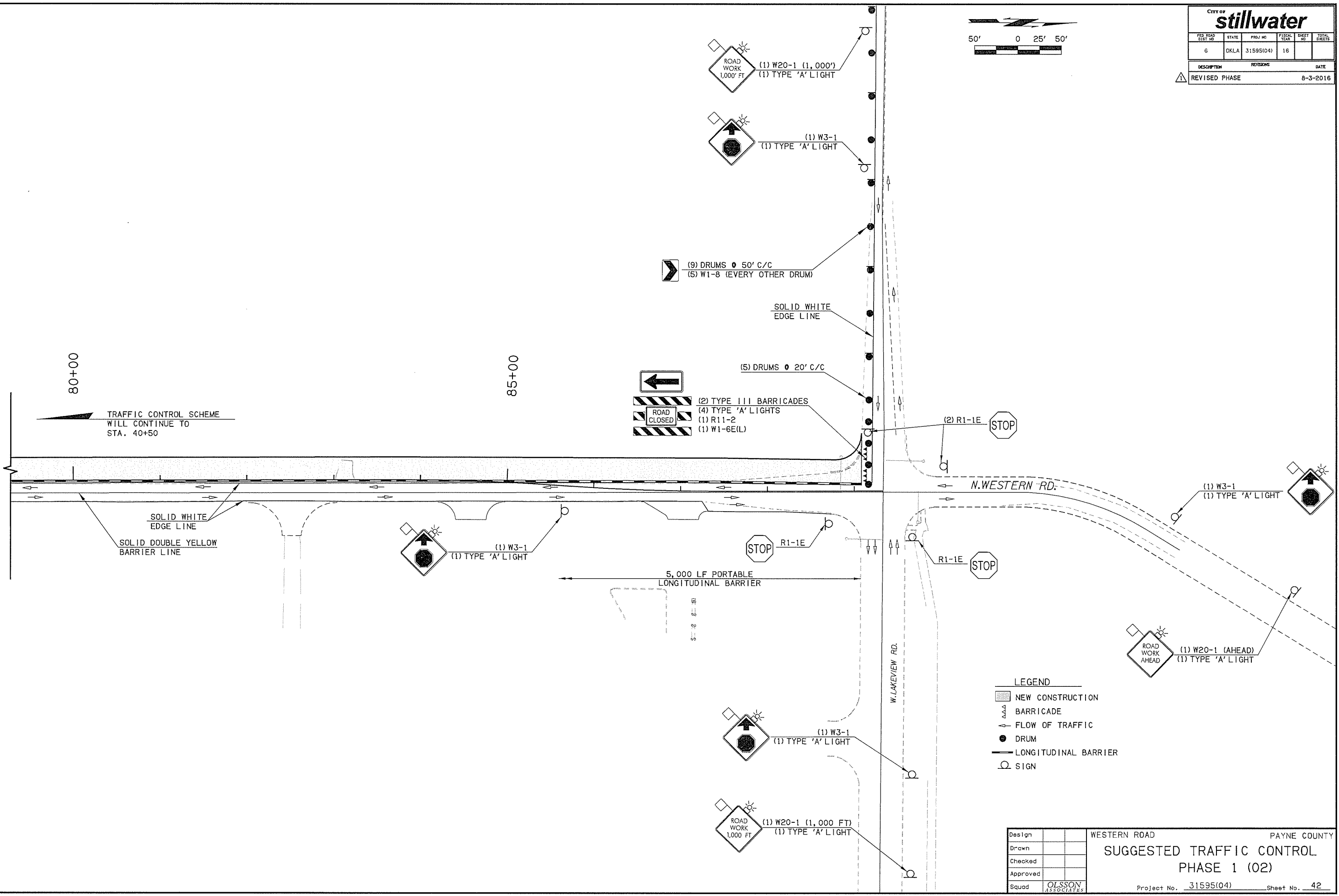
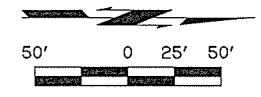


**LEGEND**

- NEW CONSTRUCTION
- BARRICADE
- FLOW OF TRAFFIC
- DRUM
- LONGITUDINAL BARRIER
- SIGN

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUGGESTED TRAFFIC CONTROL PHASE 1 (01)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 41

CITY OF <b>stillwater</b>					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISING	DATE	
REVISED PHASE				8-3-2016	



LEGEND

- NEW CONSTRUCTION
- BARRICADE
- FLOW OF TRAFFIC
- DRUM
- LONGITUDINAL BARRIER
- SIGN

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		SUGGESTED TRAFFIC CONTROL	
Checked		PHASE 1 (02)	
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 42

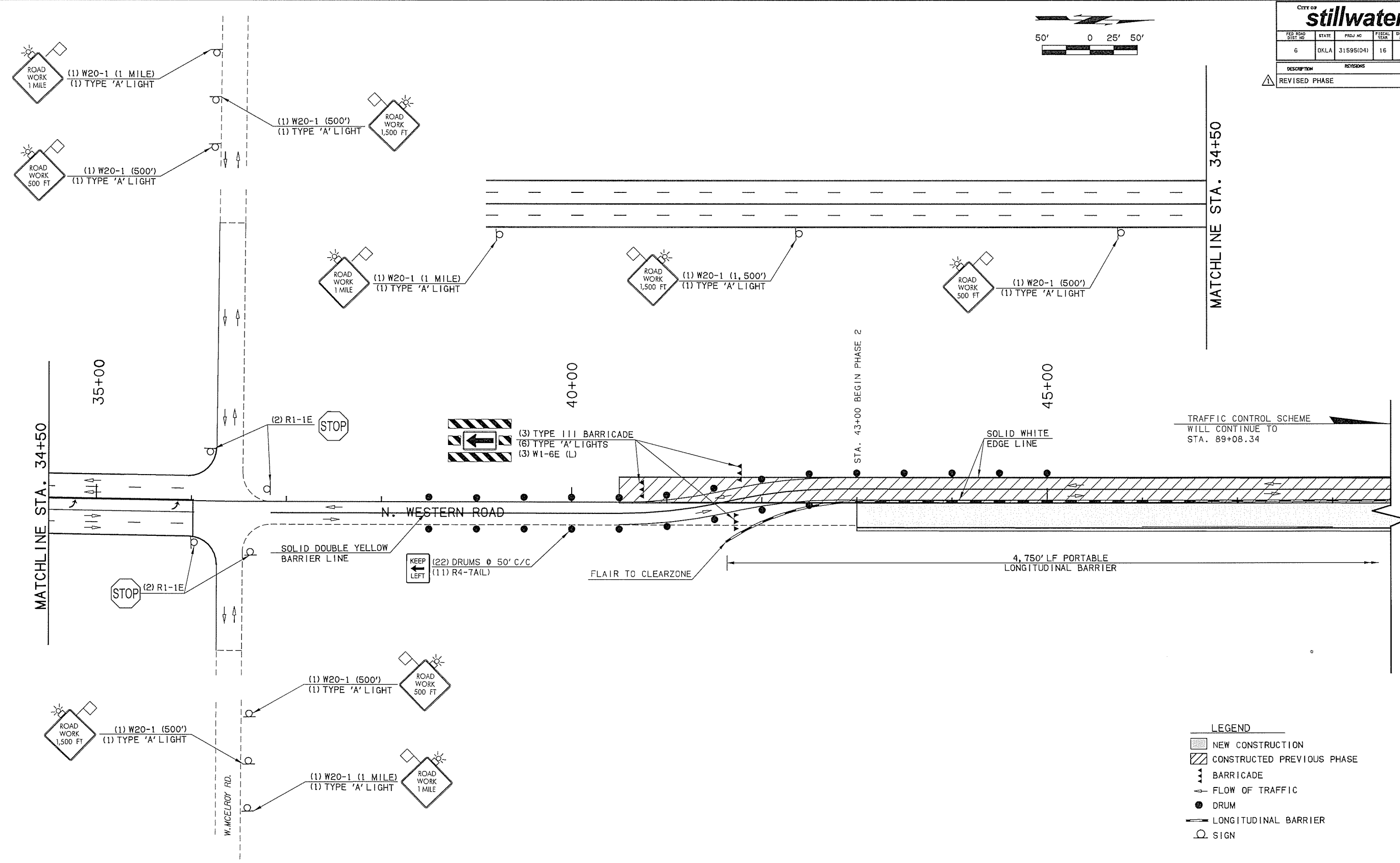
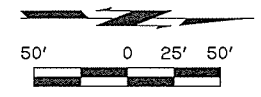
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CITY OF Stillwater					
FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION		REVISIONS		DATE	
REVISED PHASE				8-3-2016	



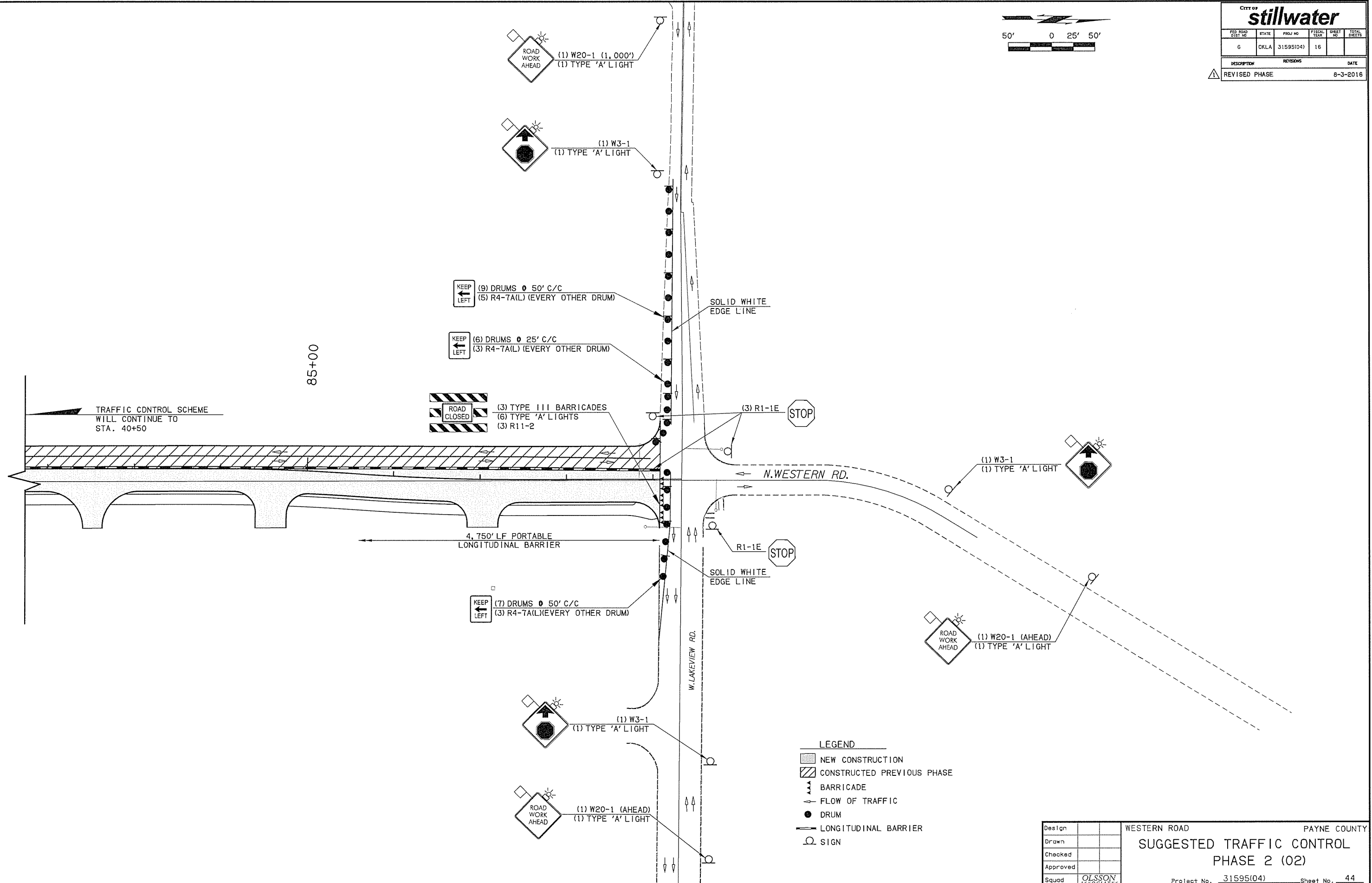
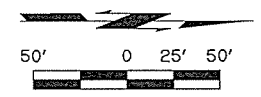
**LEGEND**

- NEW CONSTRUCTION
- CONSTRUCTED PREVIOUS PHASE
- BARRICADE
- FLOW OF TRAFFIC
- DRUM
- LONGITUDINAL BARRIER
- SIGN

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		SUGGESTED TRAFFIC CONTROL	
Checked		PHASE 2 (01)	
Approved		Project No. 31595(04) Sheet No. 43	
Squad	OLSSON ASSOCIATES		



CITY OF <b>stillwater</b>					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISIONS	DATE	
REVISED PHASE				8-3-2016	



KEEP LEFT (9) DRUMS @ 50' C/C  
(5) R4-7A(L) (EVERY OTHER DRUM)

KEEP LEFT (6) DRUMS @ 25' C/C  
(3) R4-7A(L) (EVERY OTHER DRUM)

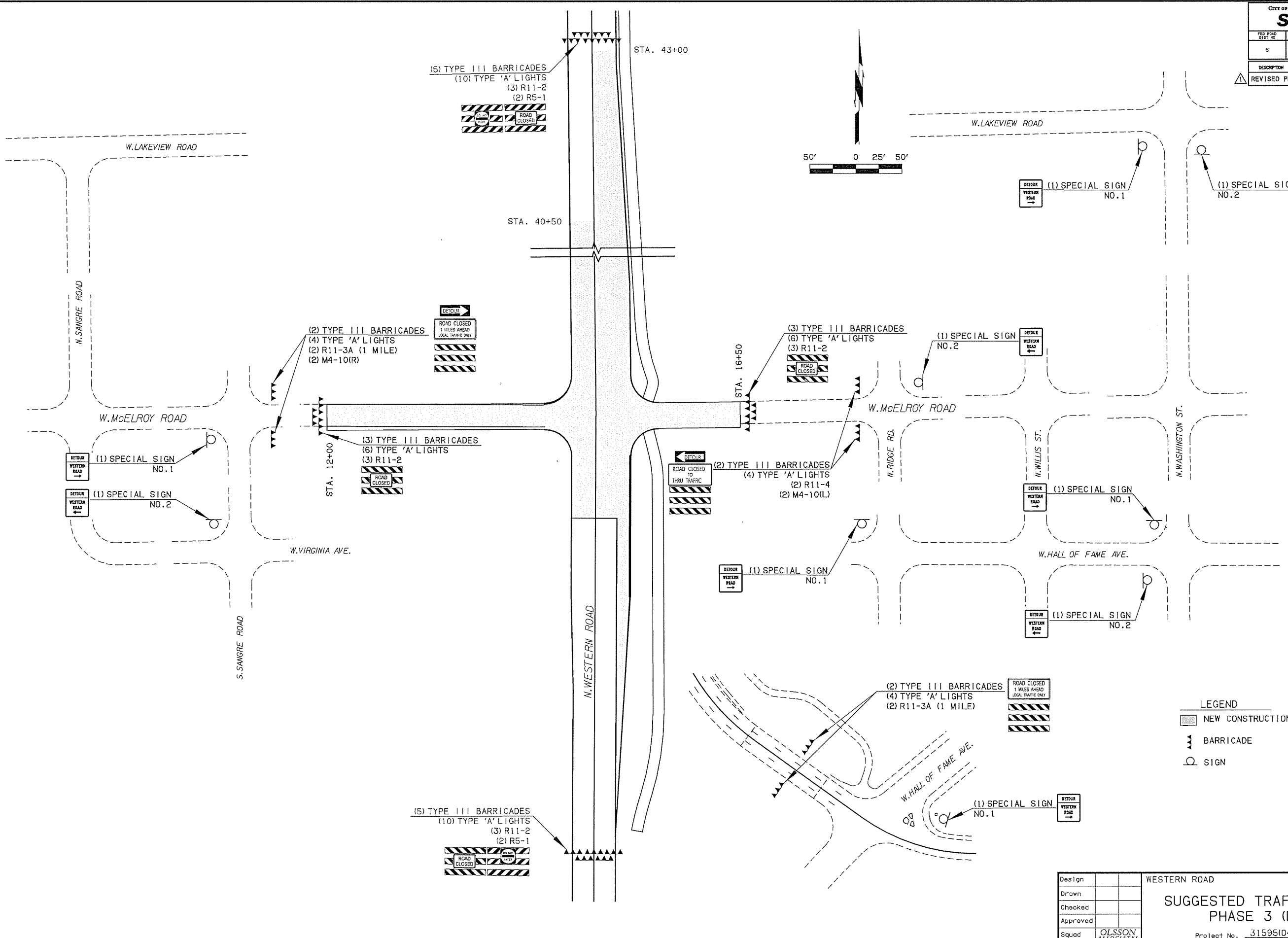
ROAD CLOSED (3) TYPE III BARRICADES  
(6) TYPE 'A' LIGHTS  
(3) R11-2

KEEP LEFT (7) DRUMS @ 50' C/C  
(3) R4-7A(L) (EVERY OTHER DRUM)

- LEGEND**
- NEW CONSTRUCTION
  - CONSTRUCTED PREVIOUS PHASE
  - BARRICADE
  - FLOW OF TRAFFIC
  - DRUM
  - LONGITUDINAL BARRIER
  - SIGN

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUGGESTED TRAFFIC CONTROL PHASE 2 (02)</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES		
Project No. 31595(04)		Sheet No. 44	

CITY OF <b>stillwater</b>					
FED ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	16		
DESCRIPTION			REVISIONS	DATE	
REVISED PHASE				8-3-2016	



**LEGEND**

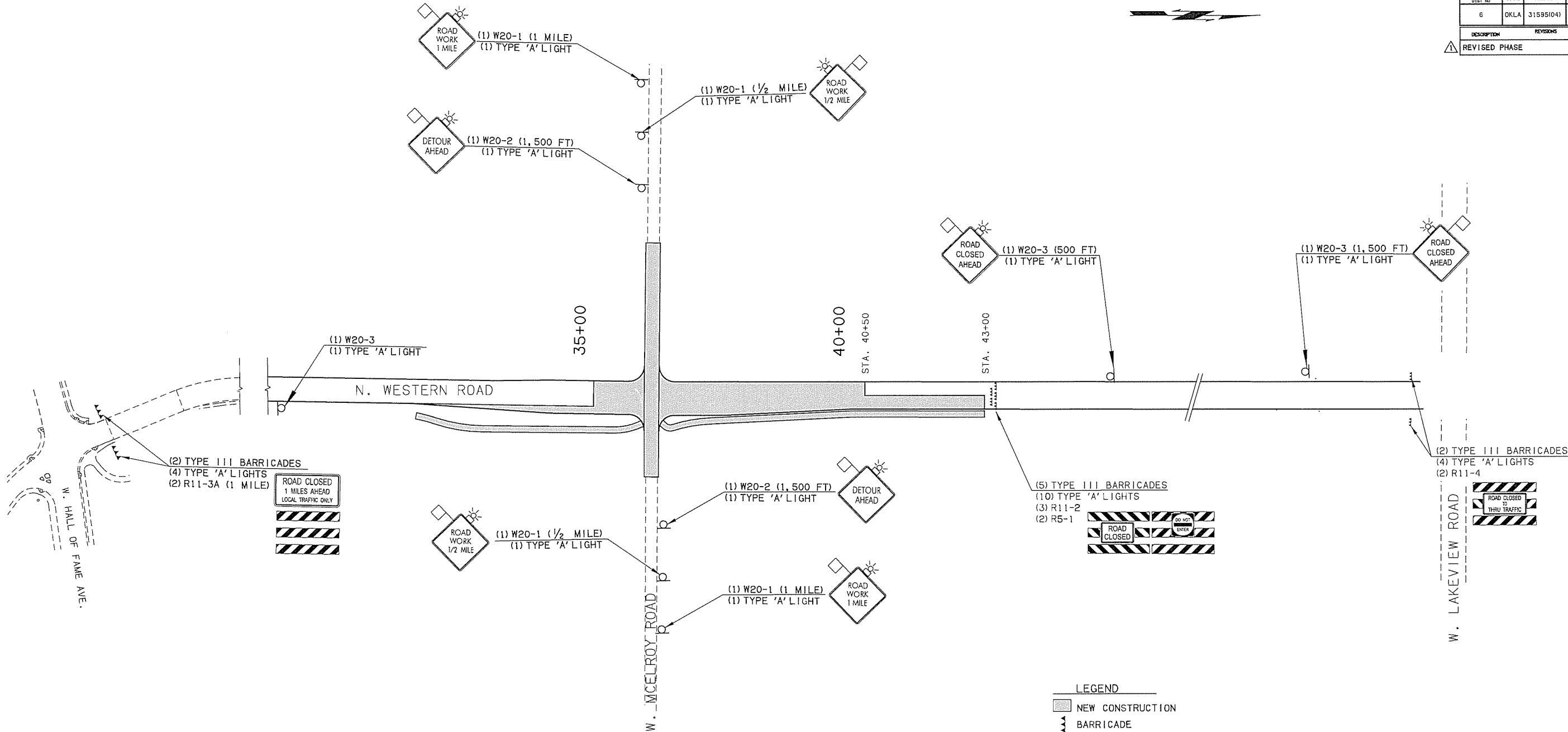
	NEW CONSTRUCTION
	BARRICADE
	SIGN

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUGGESTED TRAFFIC CONTROL PHASE 3 (DETOUR)</b>	
Checked			
Approved			
Squad	OLSSON A330614725	Project No. 31595(04)	Sheet No. 45

100' 0 50' 100'



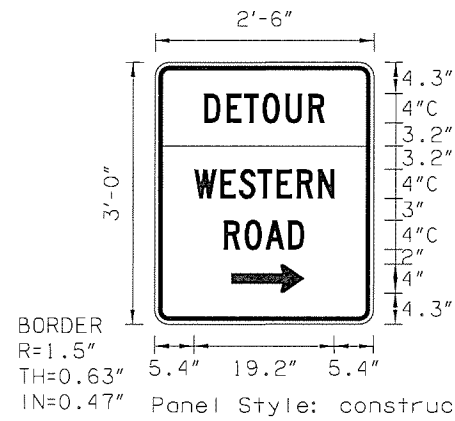
CITY OF <b>stillwater</b>					
FED ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA	31595(04)	15		
DESCRIPTION			REVISIONS	DATE	
REVISED PHASE				8-3-2016	



**LEGEND**

- NEW CONSTRUCTION
- BARRICADE
- FLOW OF TRAFFIC
- SIGN

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUGGESTED TRAFFIC CONTROL PHASE 3</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 46



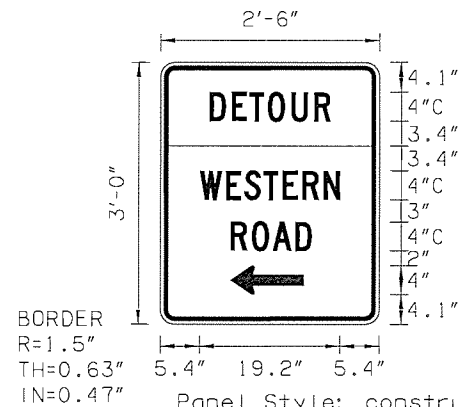
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WIDTH x HGHT.	2'-6" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	7.5 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: Orange / Orange
LEGEND/BORDER	TYPE: Non-reflective COLOR: Black

SYMBOL	X	Y	WID	HT
AR_Type D	10.5	4.3	4	10

Dimensions are in inches.tenths Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIESIZE
D	E	T	O	U	R							C 2000
6.8	9.8	12.2	14.7	17.9	21							16.5
W	E	S	T	E	R	N						C 2000
5.4	9	11.5	14.1	16.7	19.4	22.4						19.2
R	O	A	D									C 2000
9.5	12.3	15.2	18.3									11

SPECIAL SIGN NO. 1



SIGN NUMBER	SPECIAL SIGN NO. 2
WIDTH x HGHT.	2'-6" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	7.5 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: Orange / Orange
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

SYMBOL	X	Y	WID	HT
AR_Type D	10.9	4.1	4	10

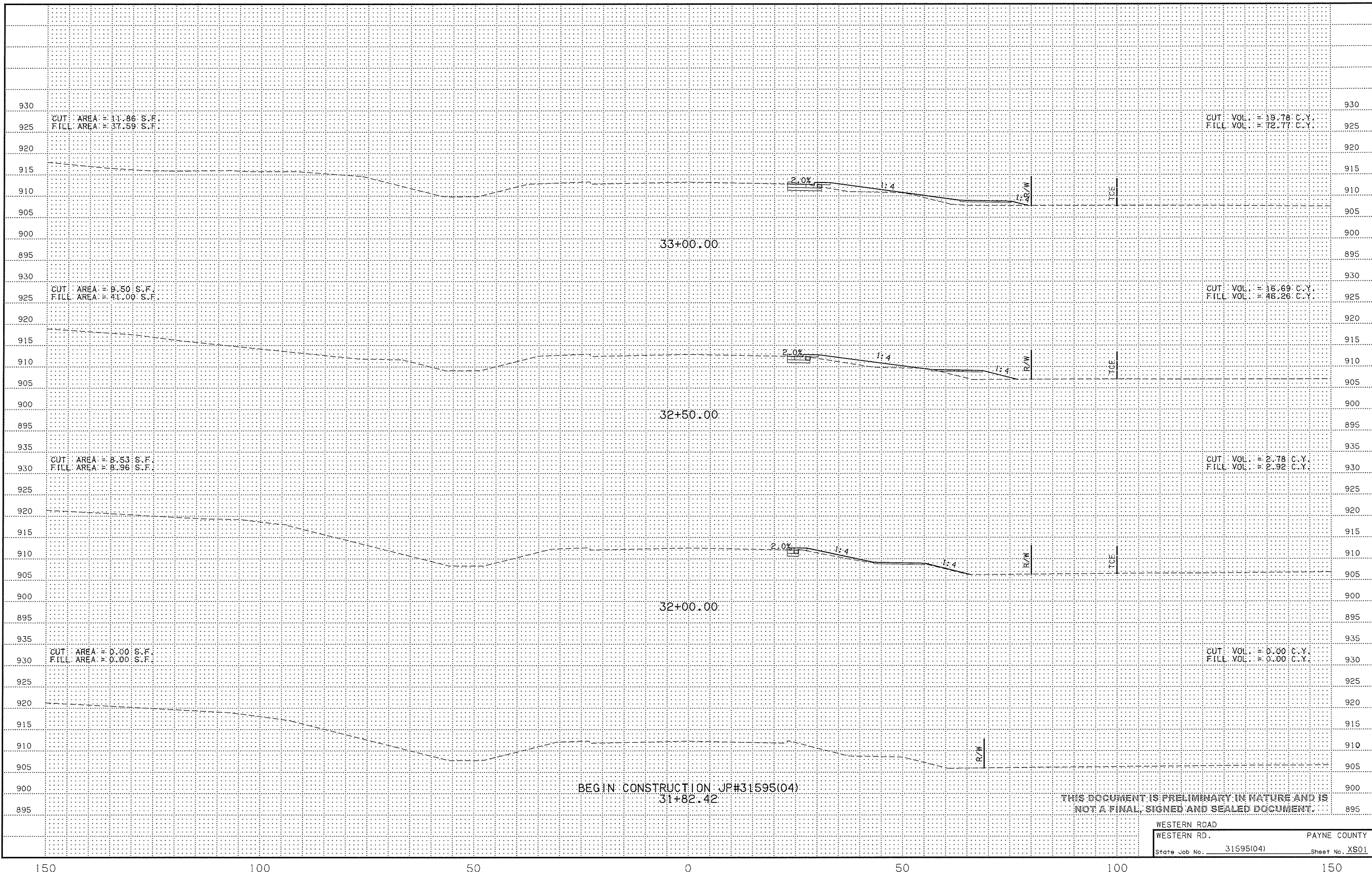
Dimensions are in inches.tenths Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIESIZE
D	E	T	O	U	R							C 2000
6.8	9.8	12.2	14.7	17.9	21							16.5
W	E	S	T	E	R	N						C 2000
5.4	9	11.5	14.1	16.7	19.4	22.4						19.2
R	O	A	D									C 2000
10.9	13.7	16.6	19.7									11

SPECIAL SIGN NO. 2

Design		WESTERN ROAD	PAYNE COUNTY
Drawn		<b>SUGGESTED TRAFFIC CONTROL SPECIAL SIGNS</b>	
Checked			
Approved			
Squad	OLSSON ASSOCIATES	Project No. 31595(04)	Sheet No. 47

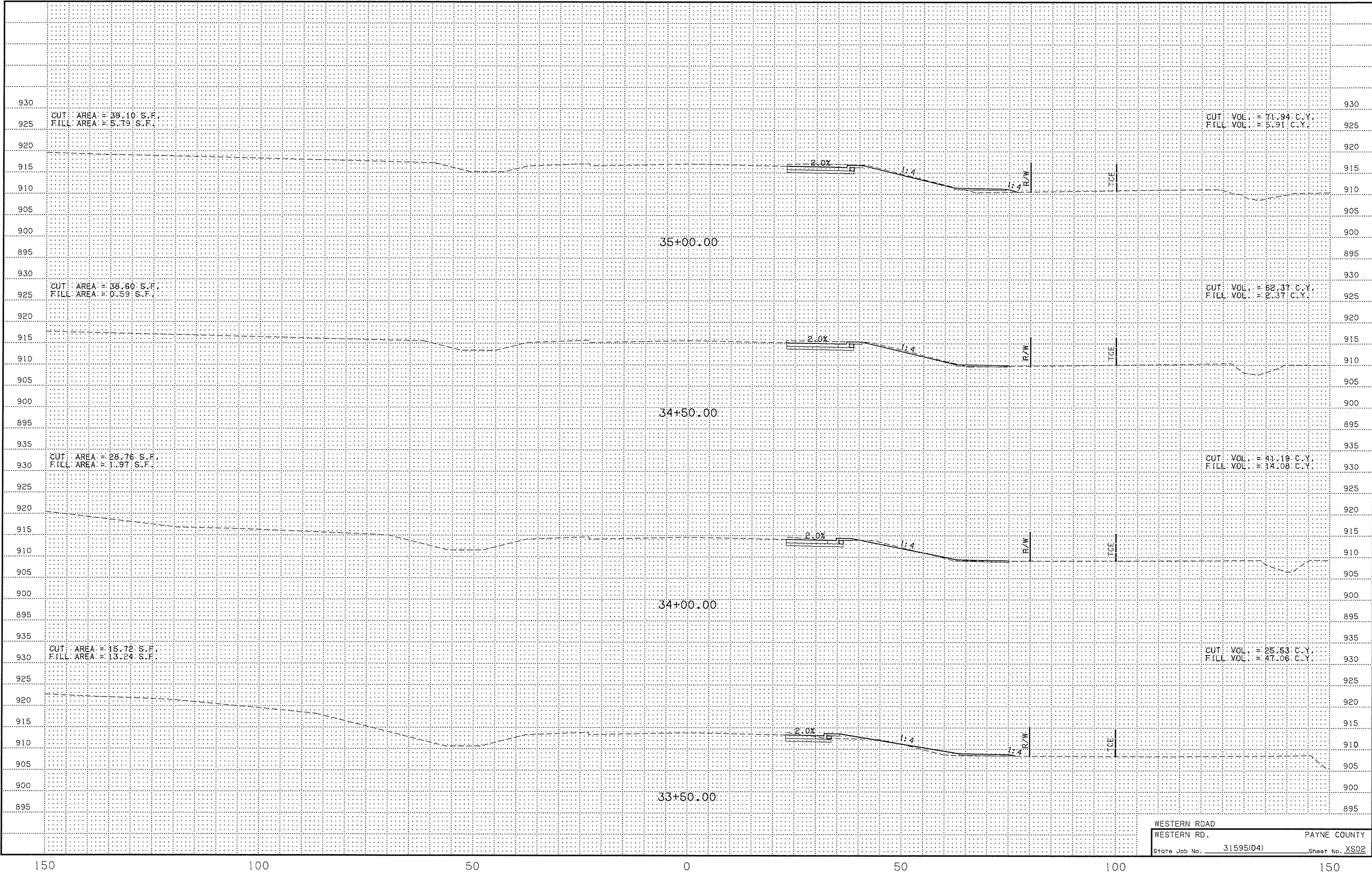


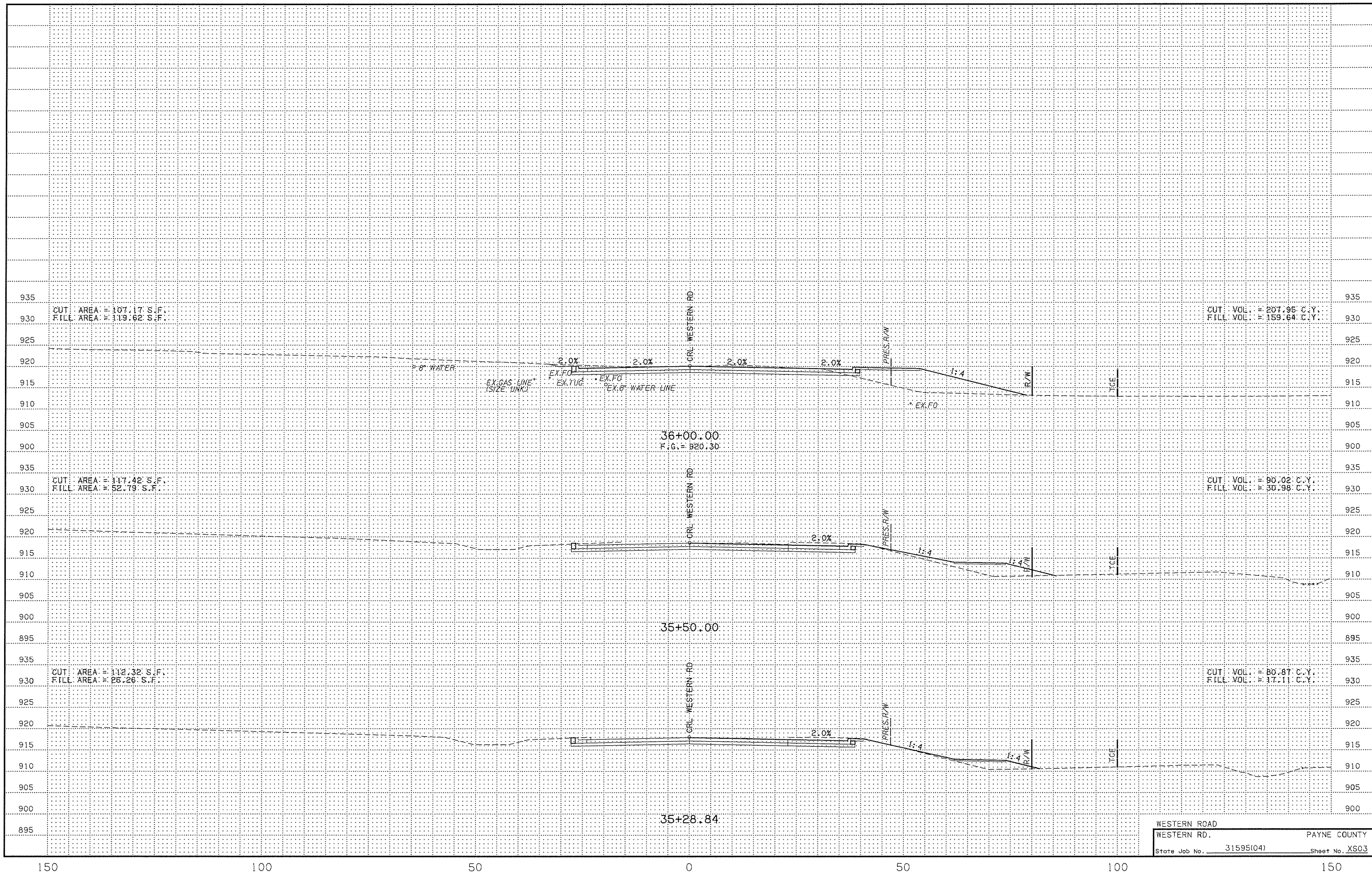


BEGIN CONSTRUCTION JP#31595(04)  
31+82.42

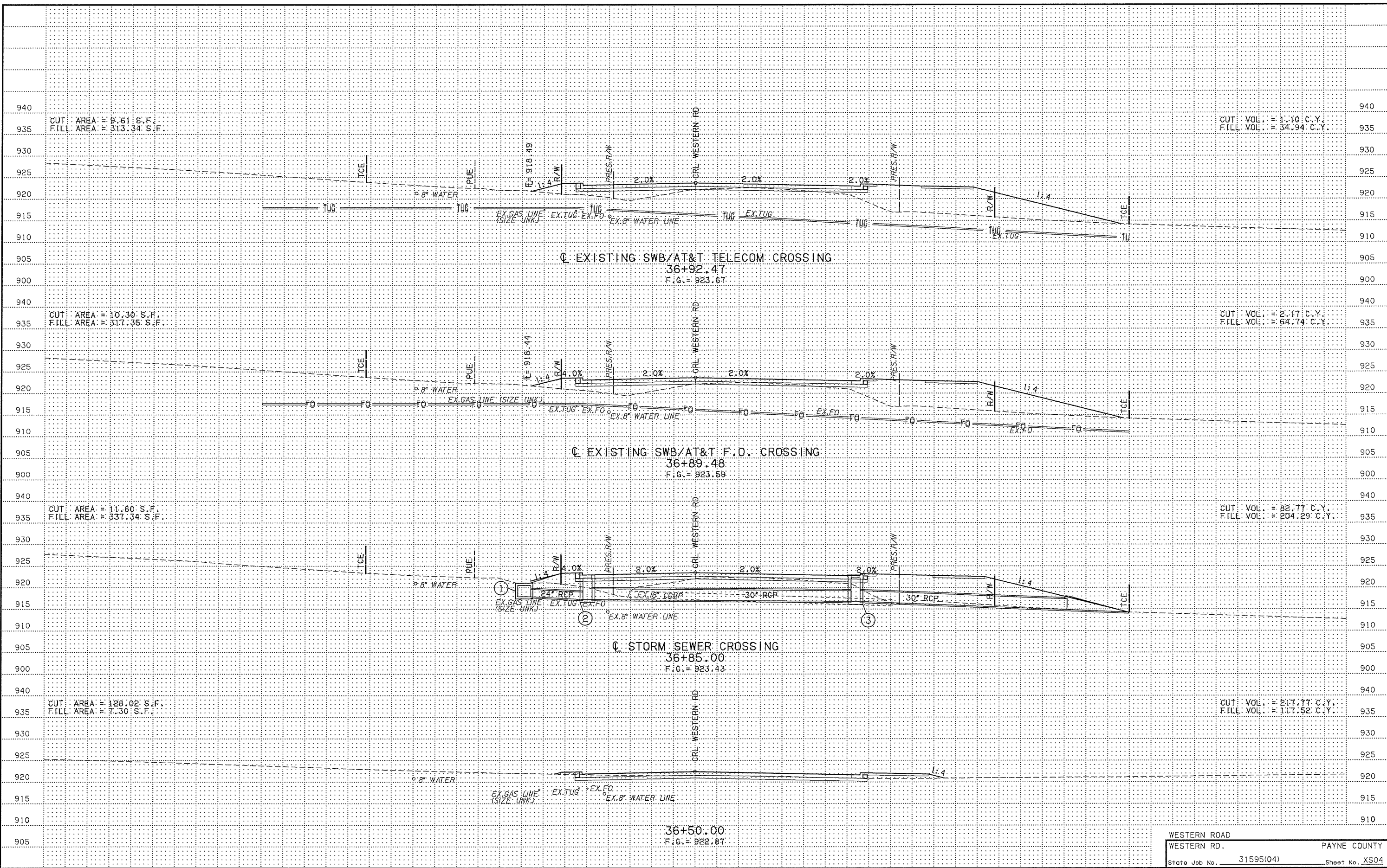
THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

WESTERN ROAD	PAYNE COUNTY
WESTERN RD.	State Job No. 31595(04)
	Sheet No. XS01

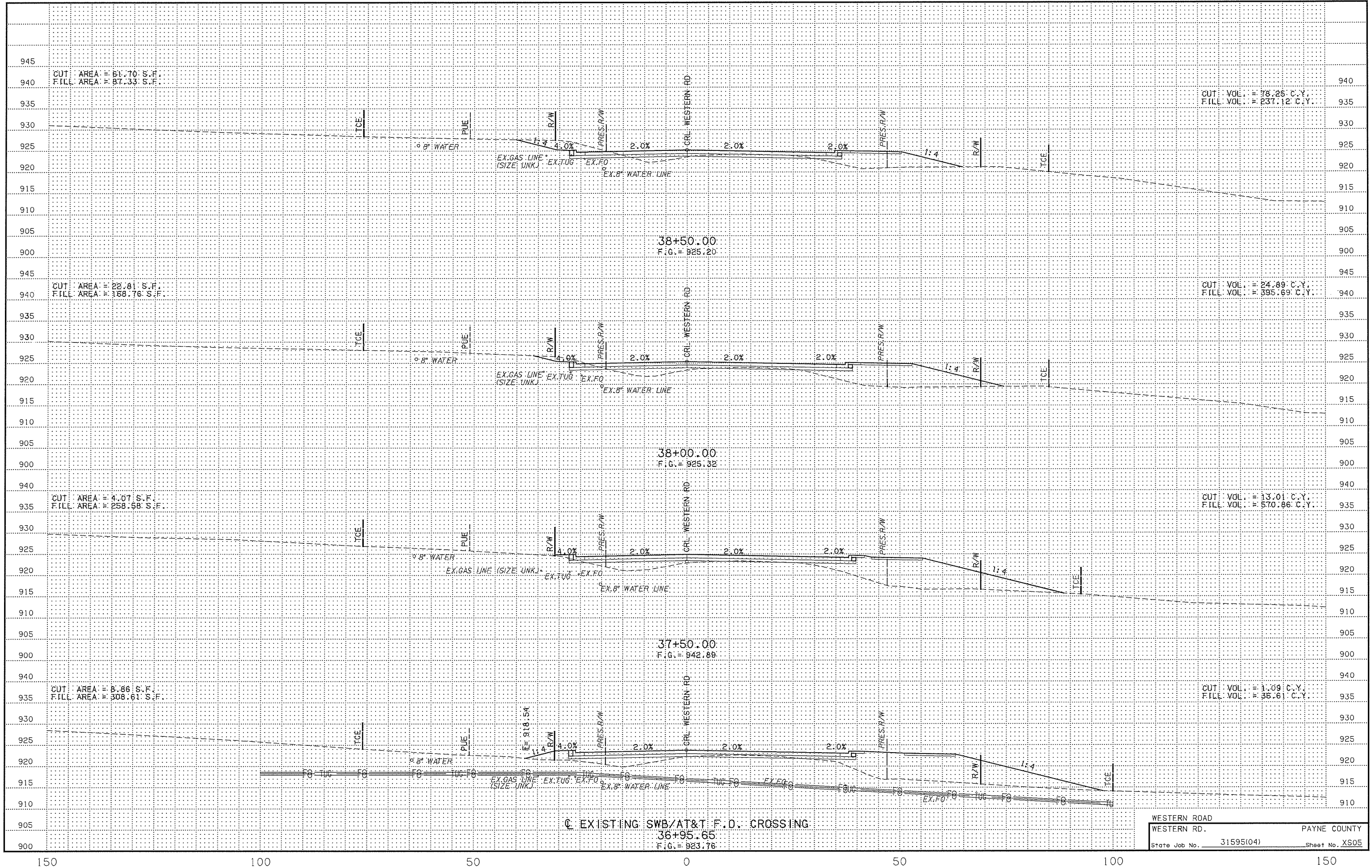




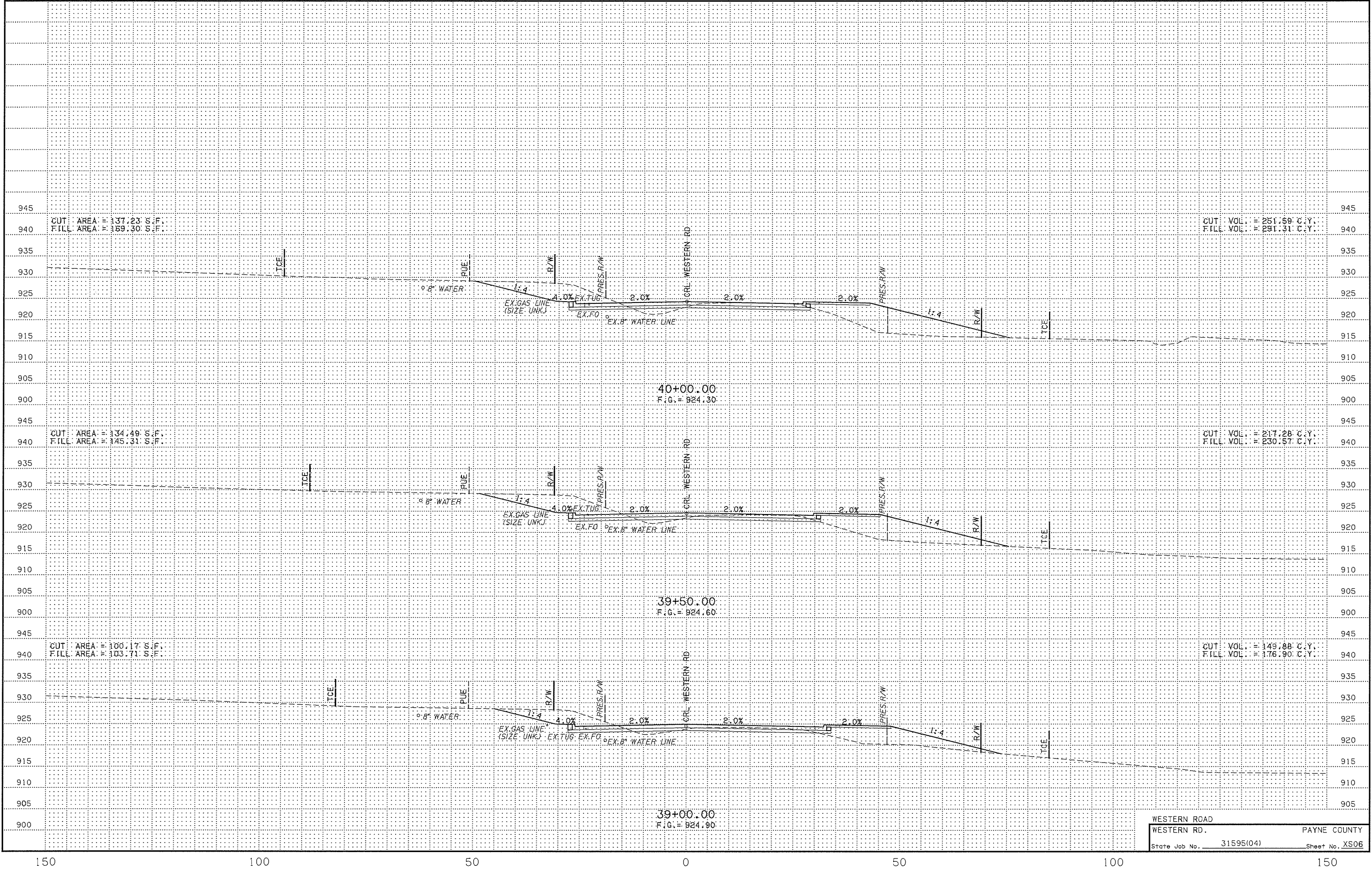
WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS03

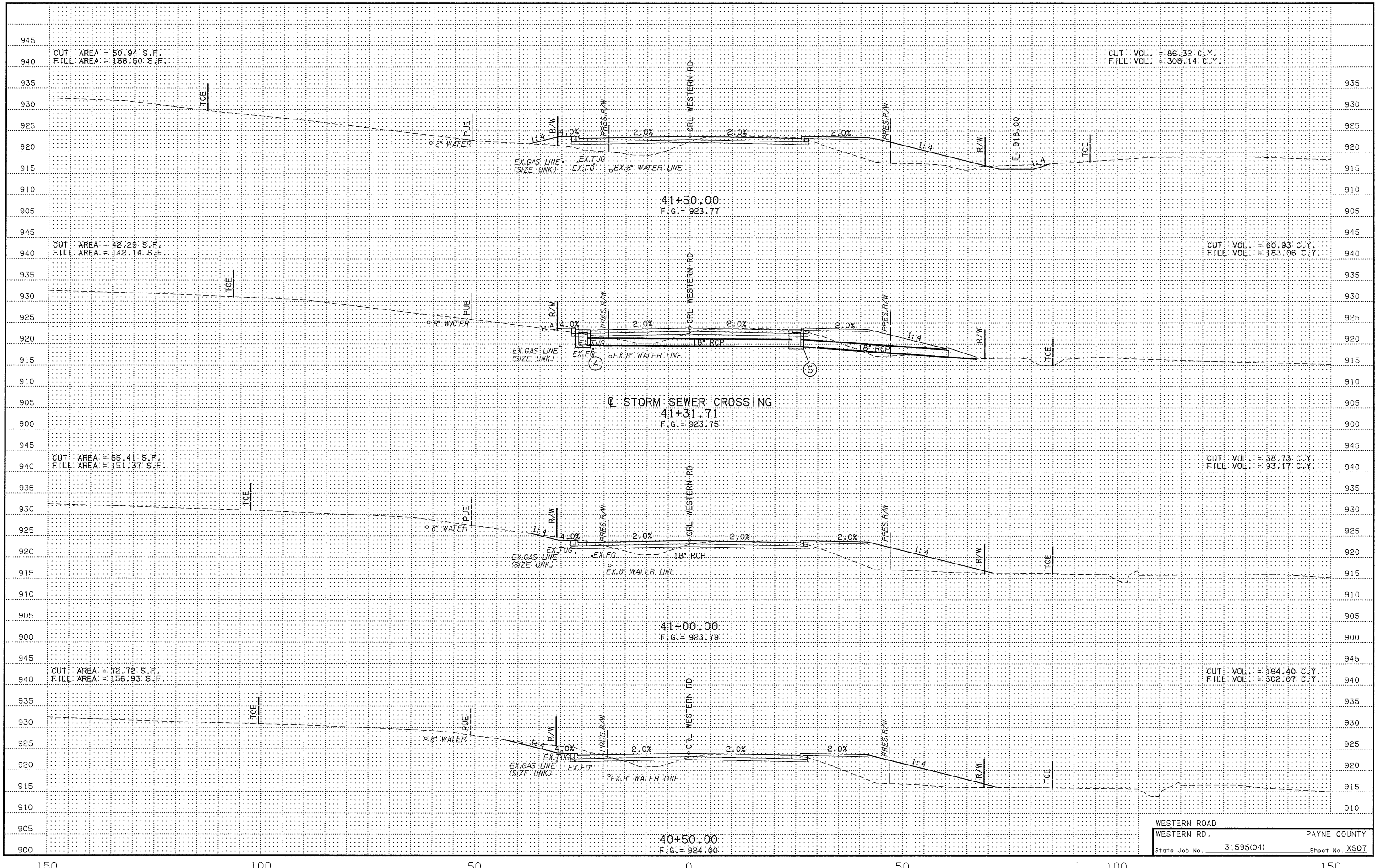




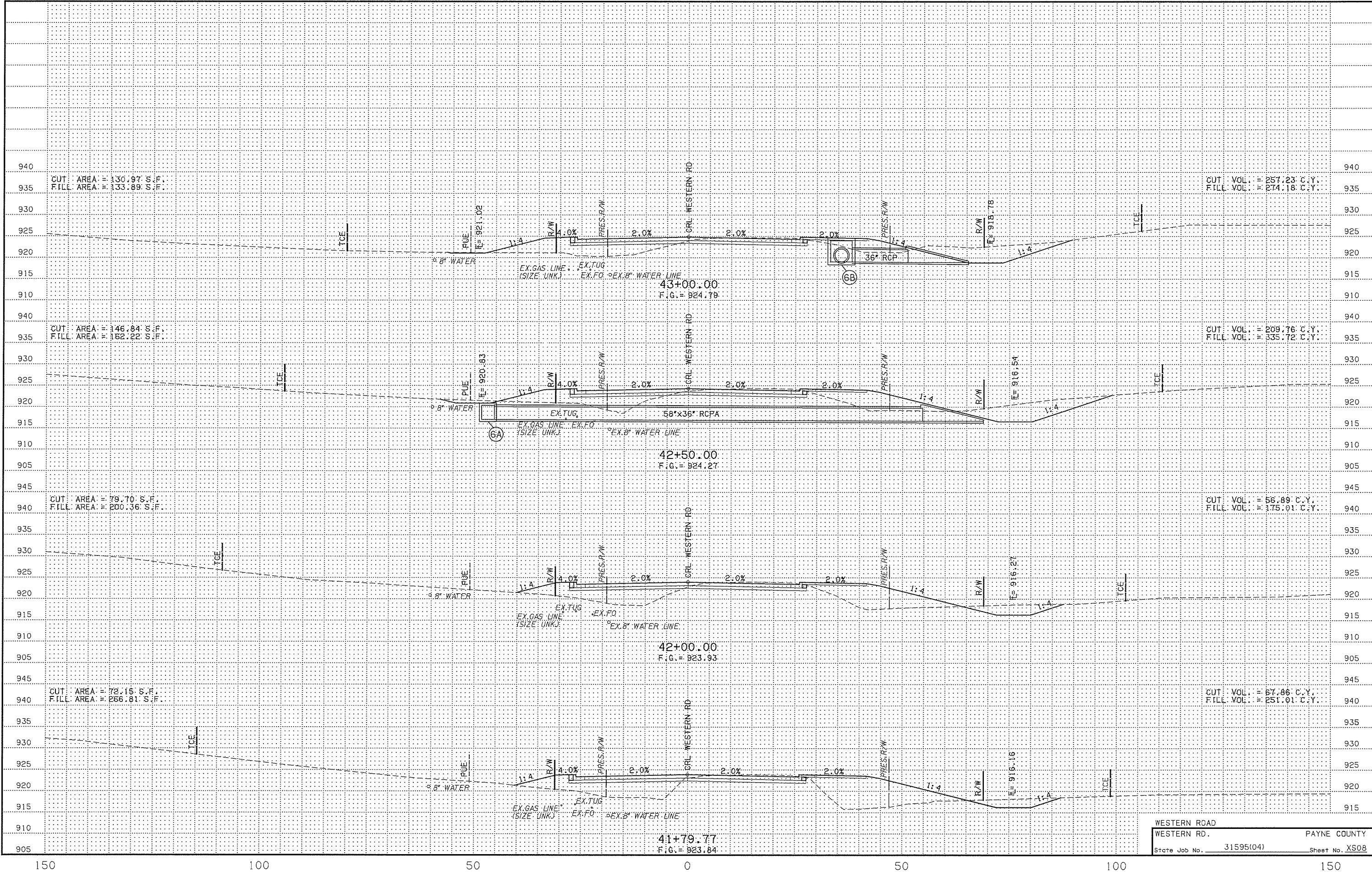


WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS05



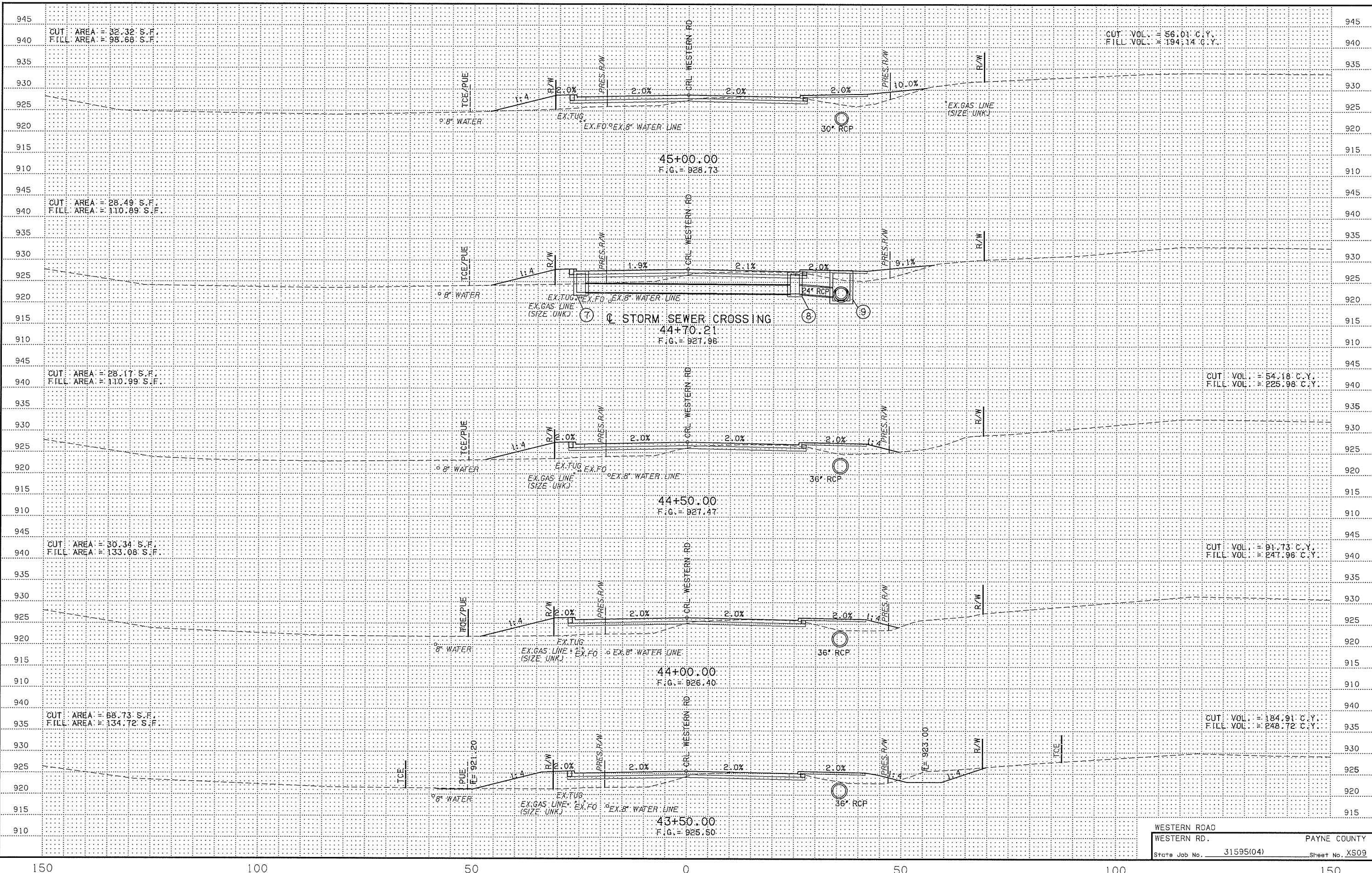


WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS07

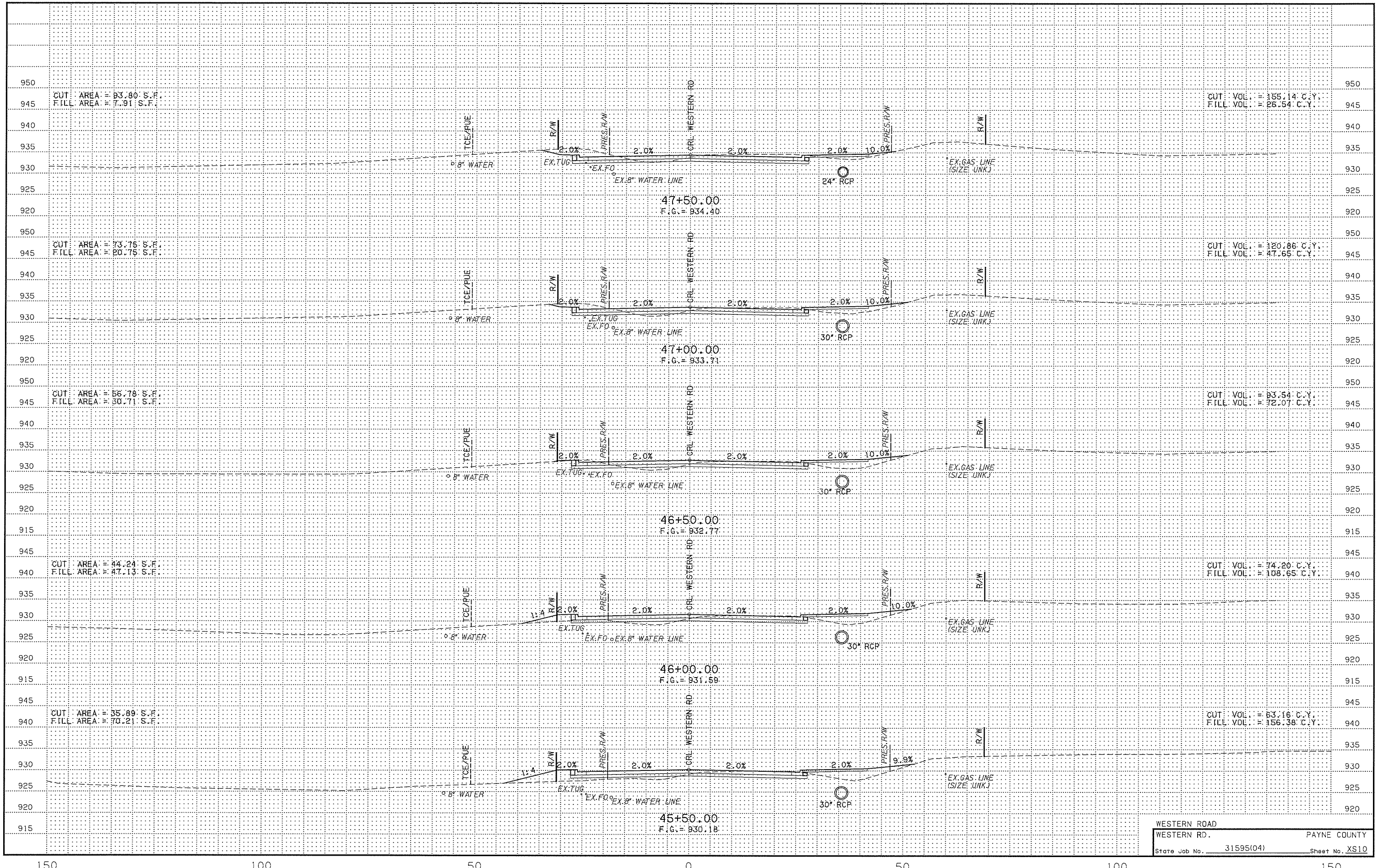


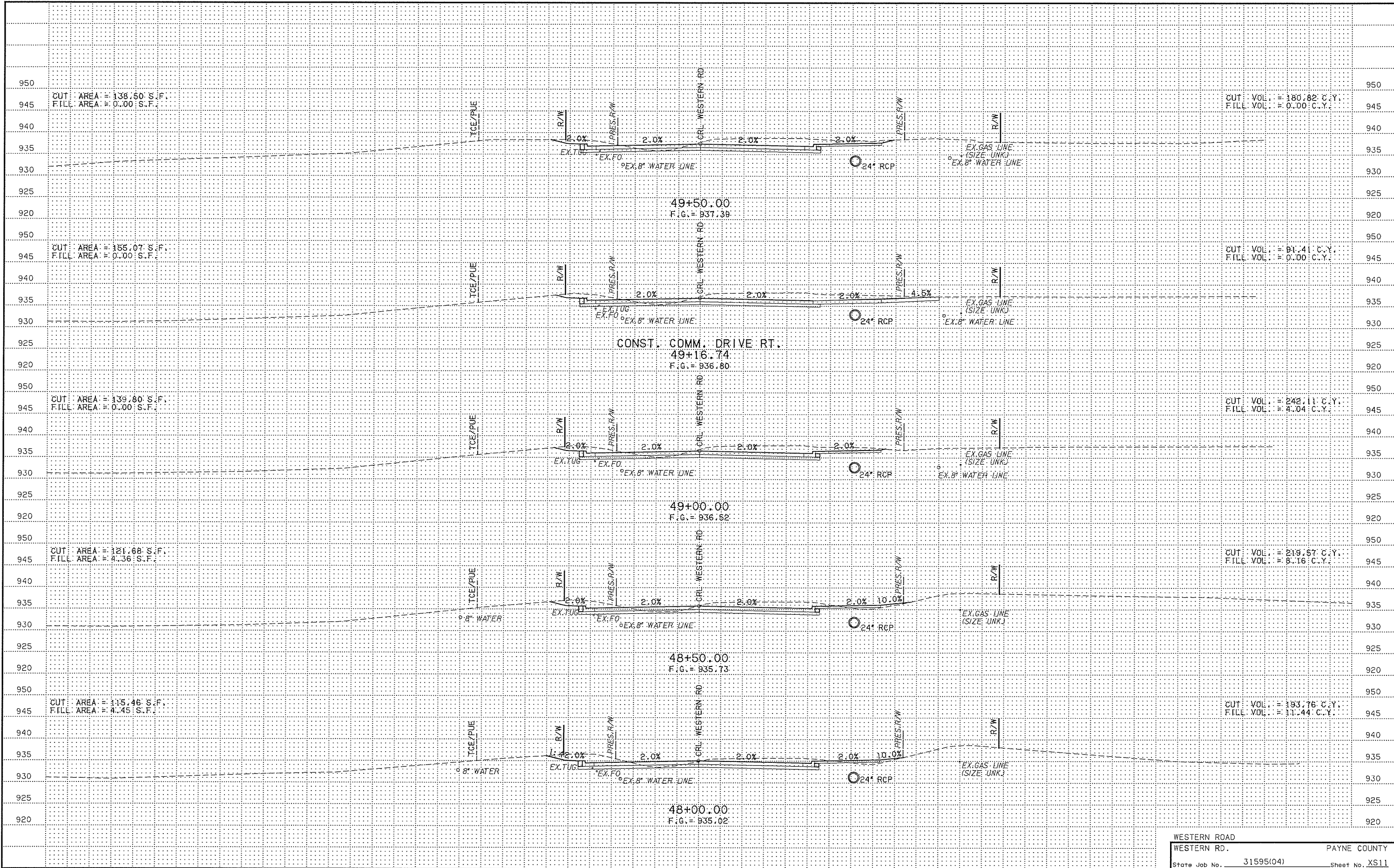
WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS08

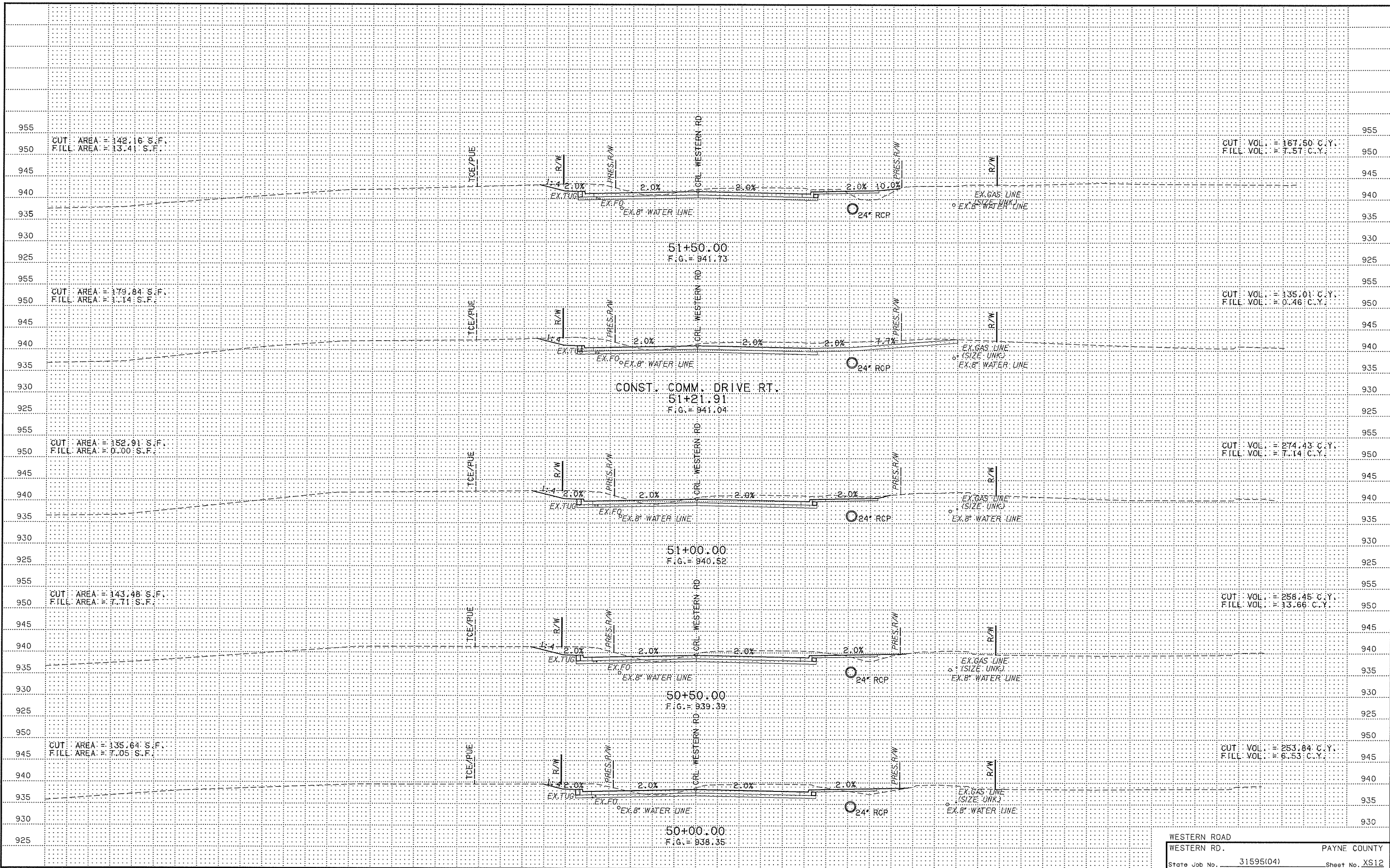






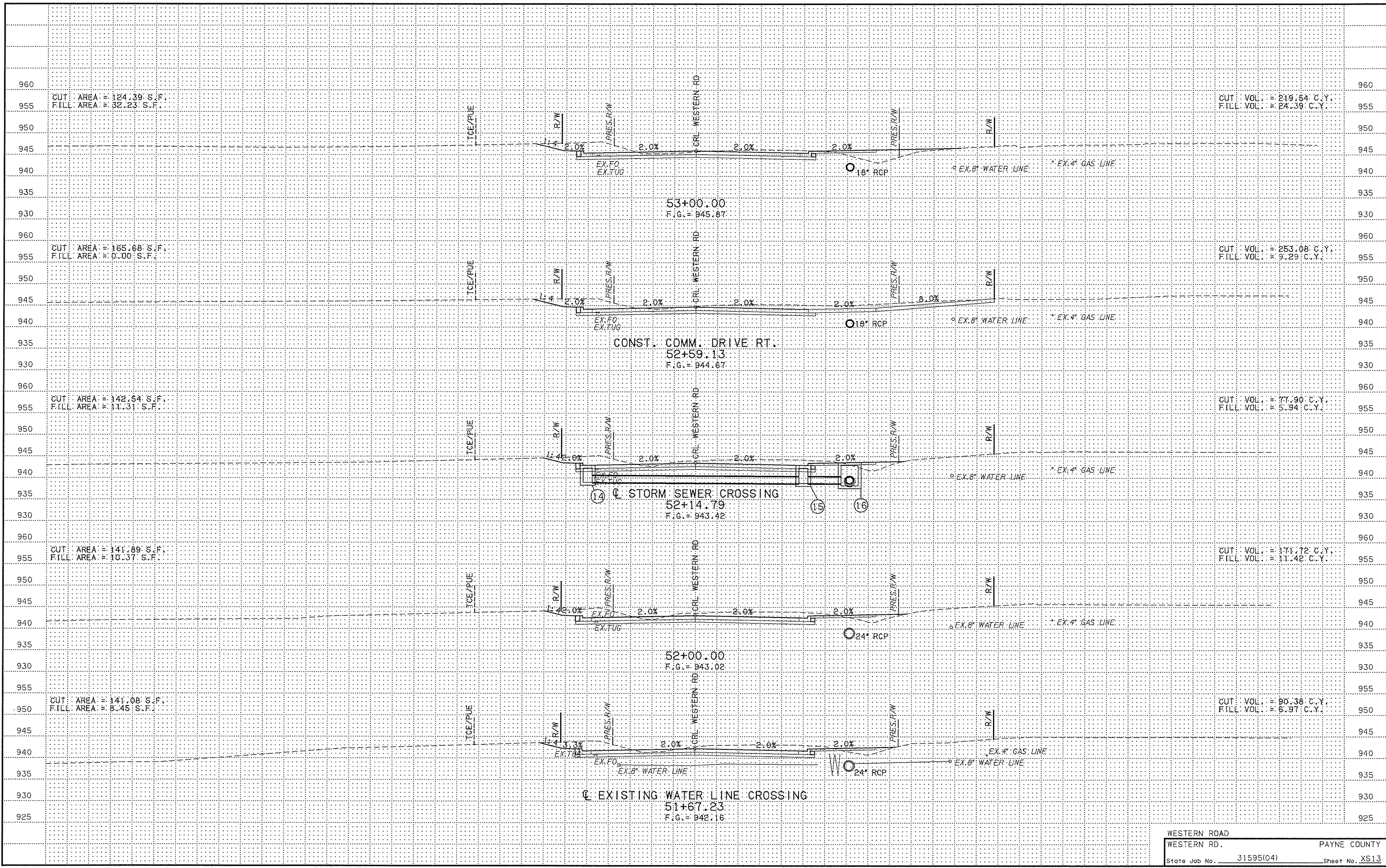


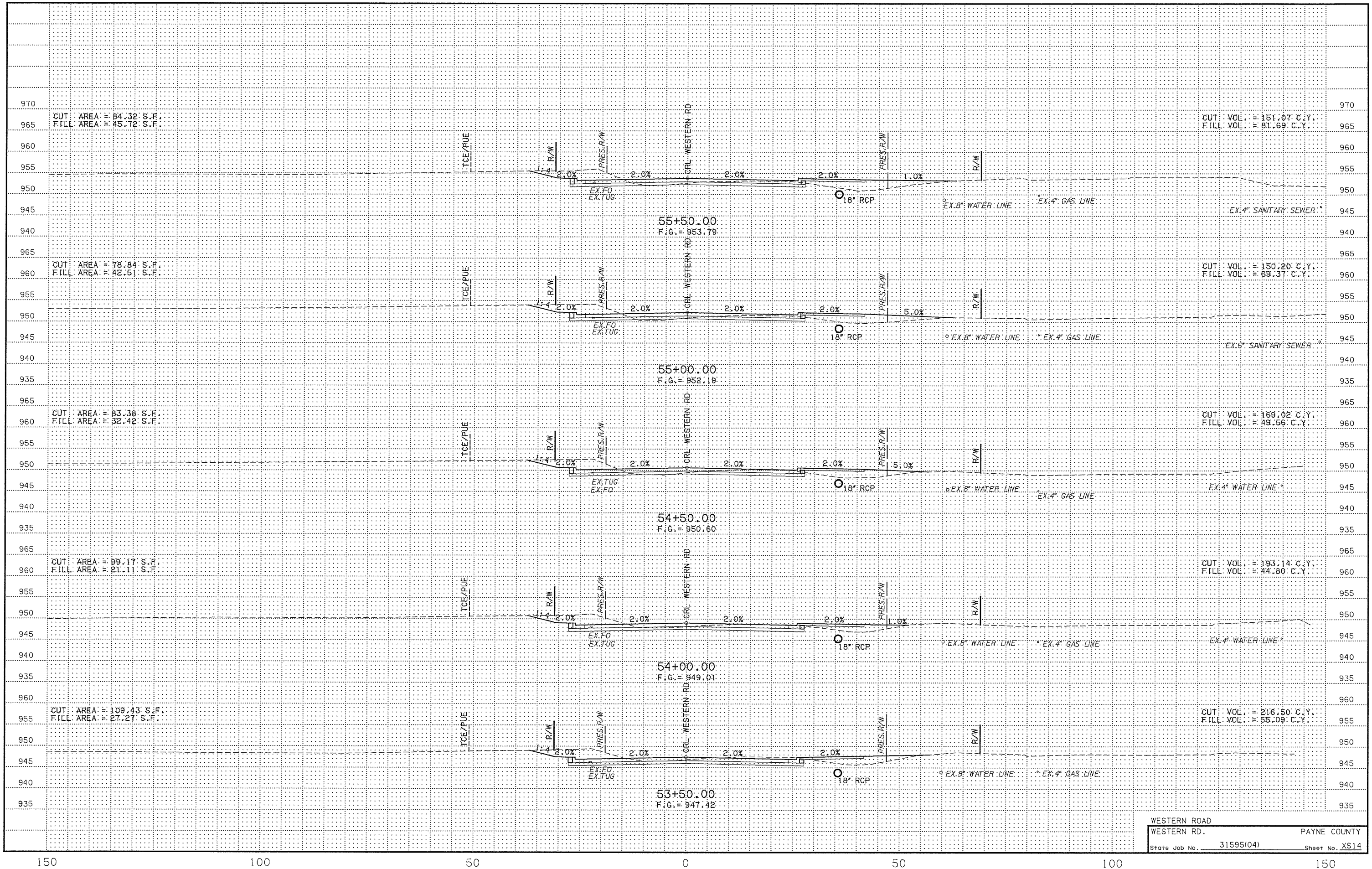




WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS12

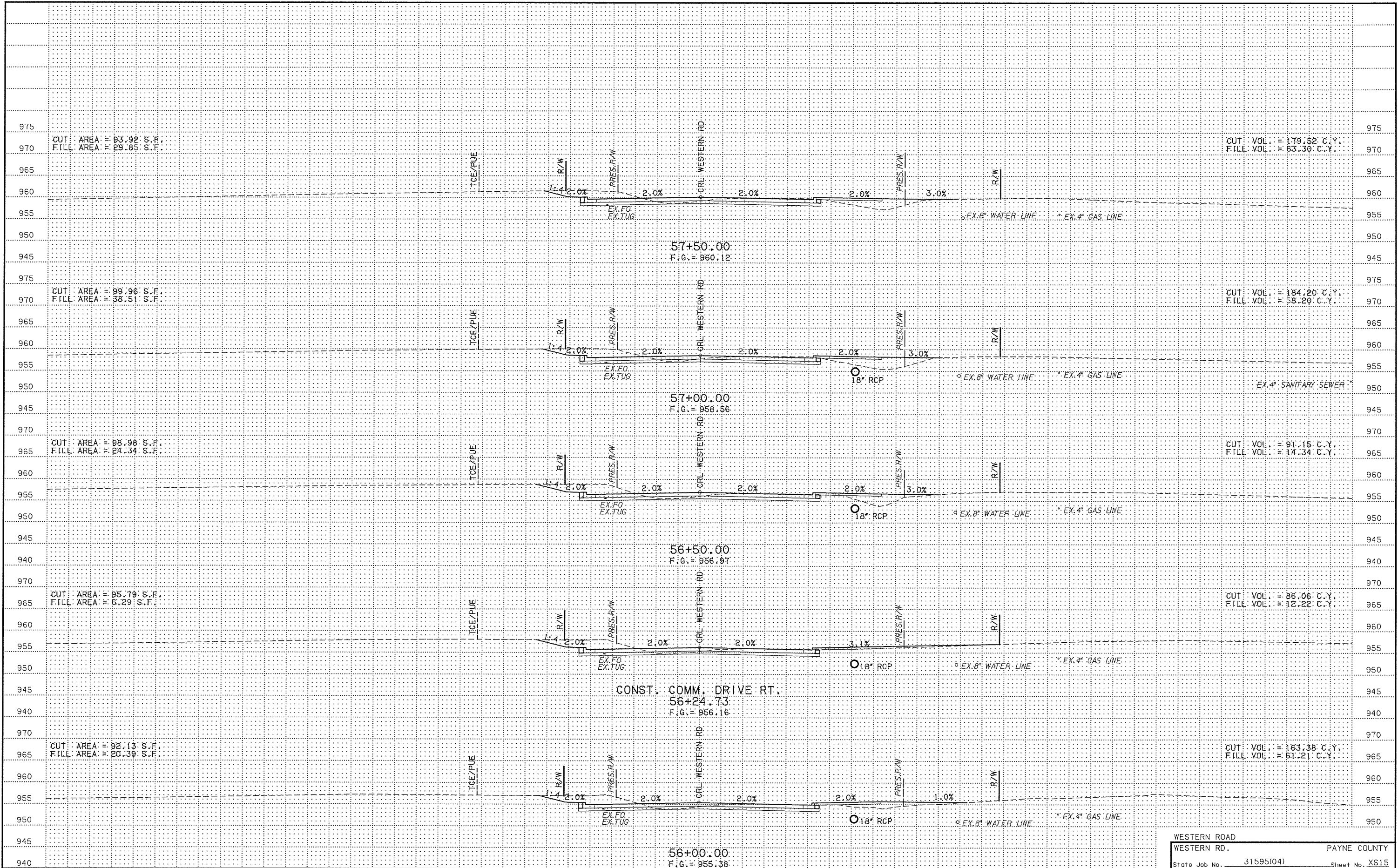




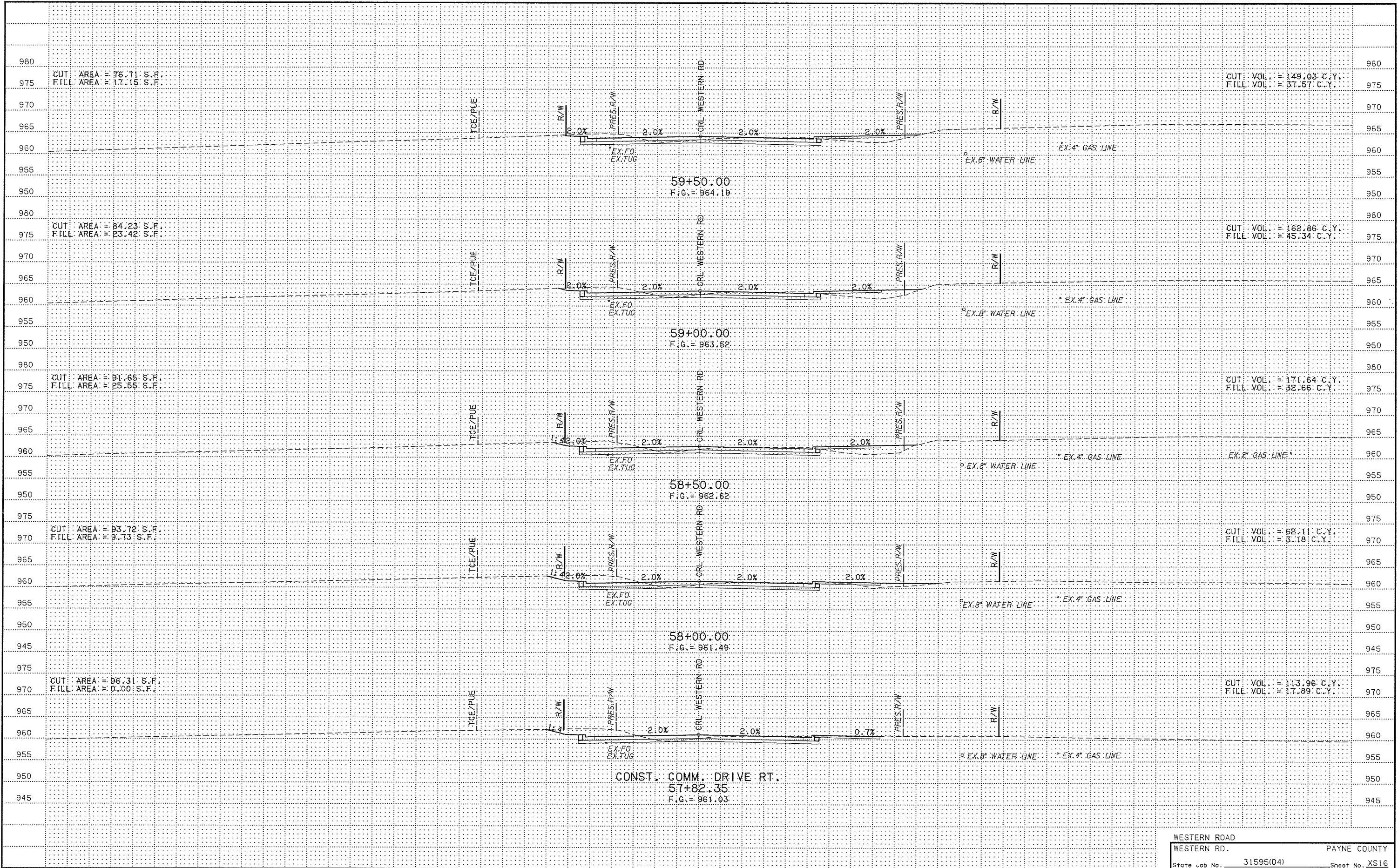


WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS14





WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS15

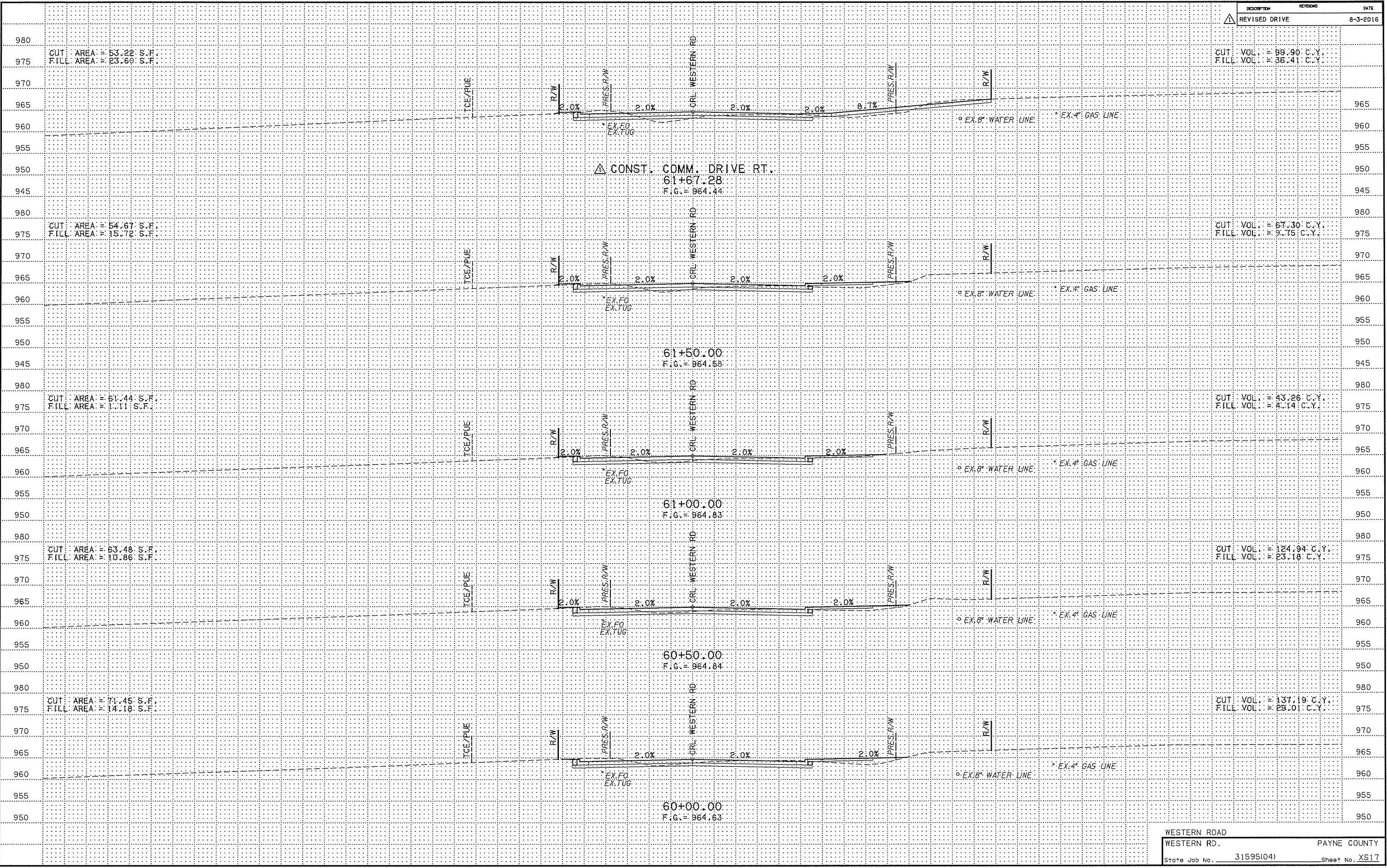


8/3/2016

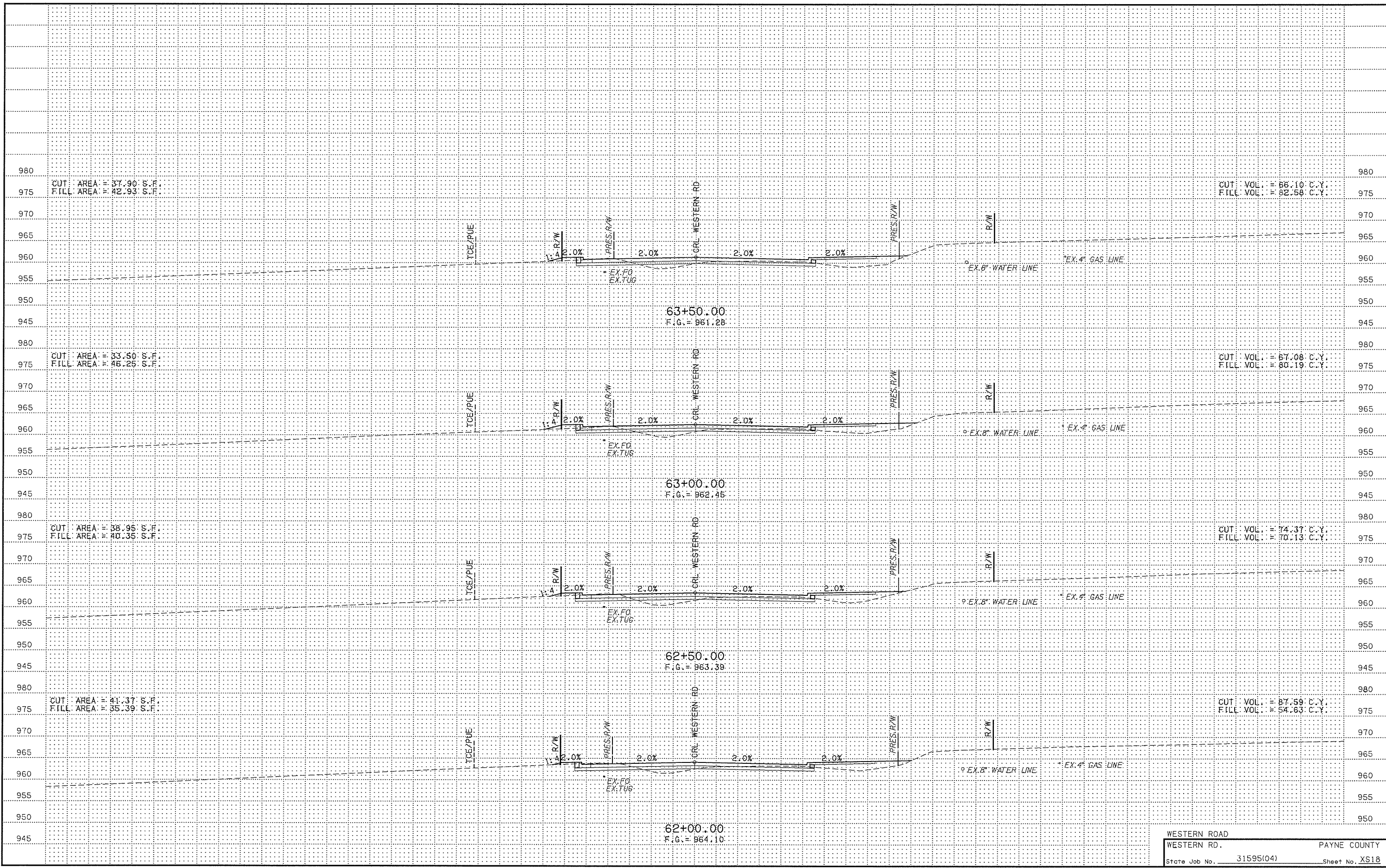
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DESCRIPTION	REVISIONS	DATE
△ REVISED DRIVE		8-3-2016







150

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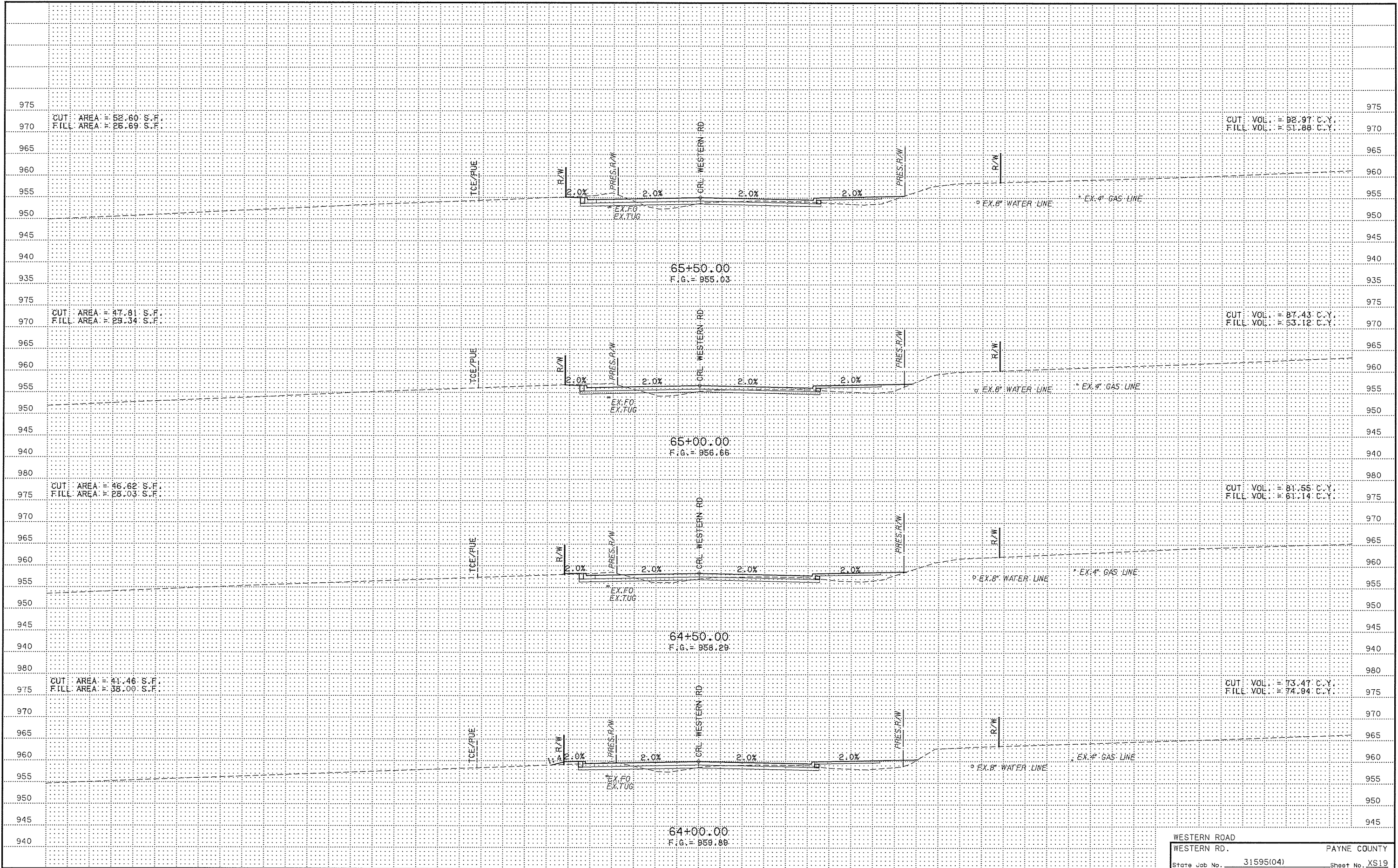
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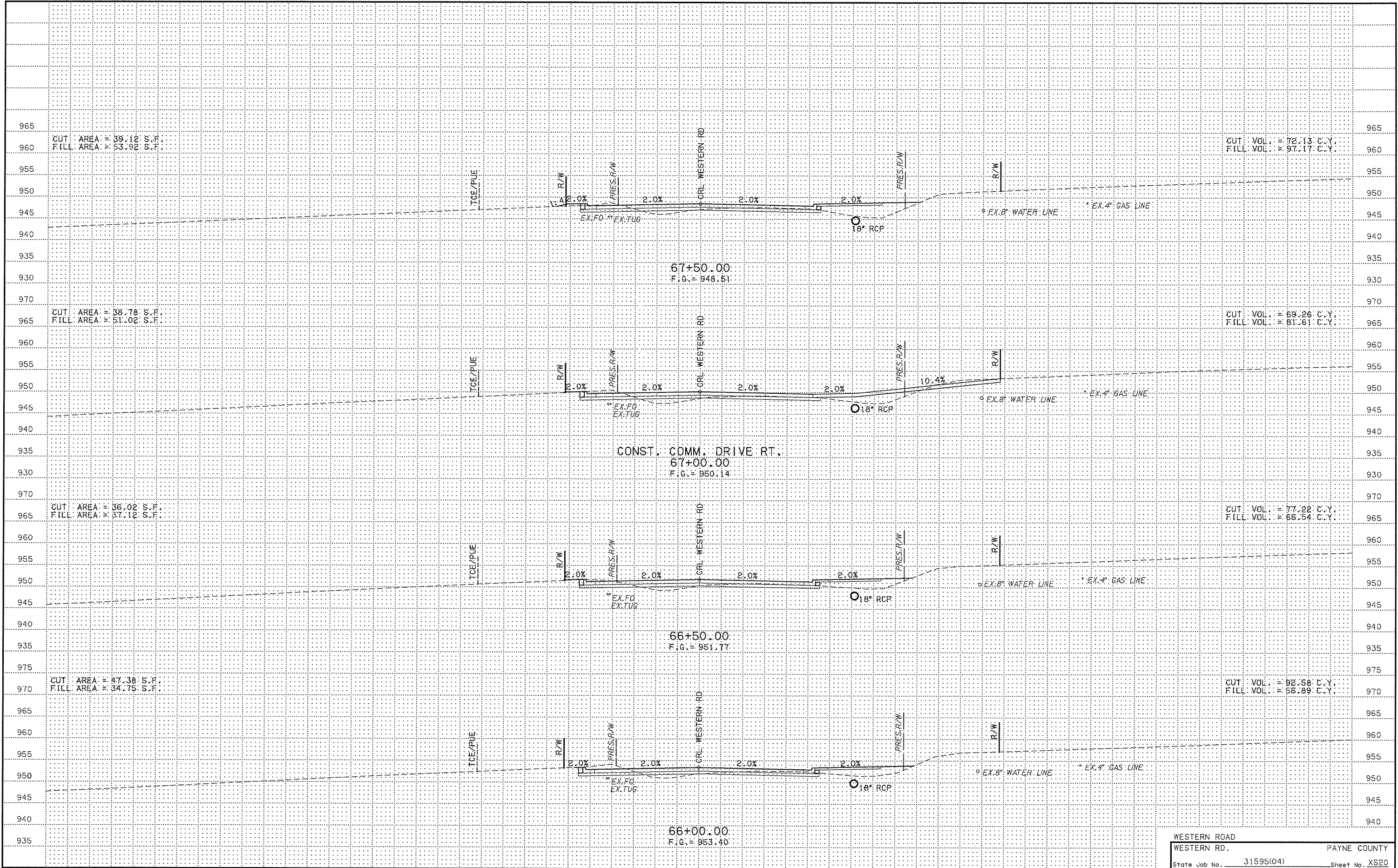
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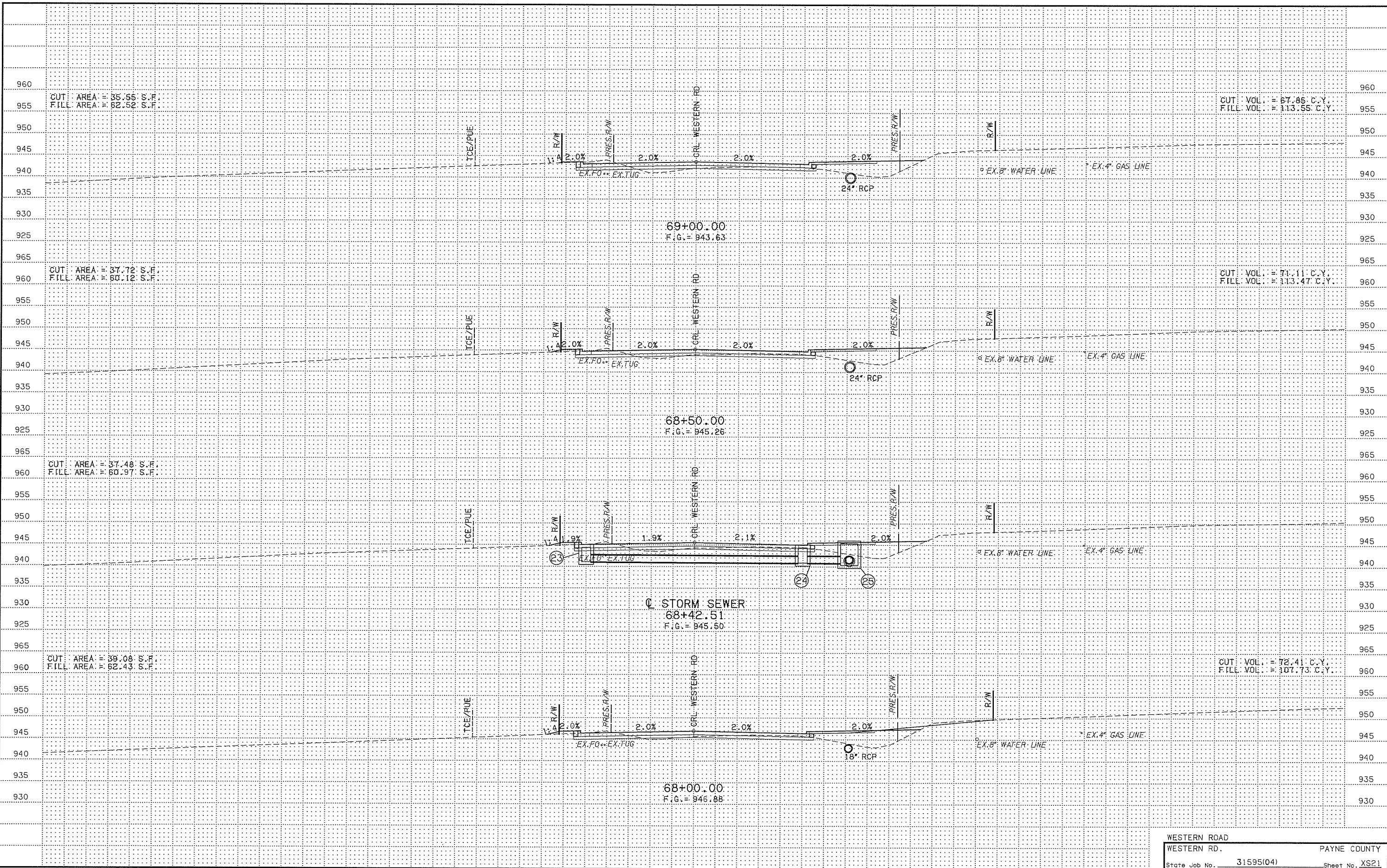
WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS18

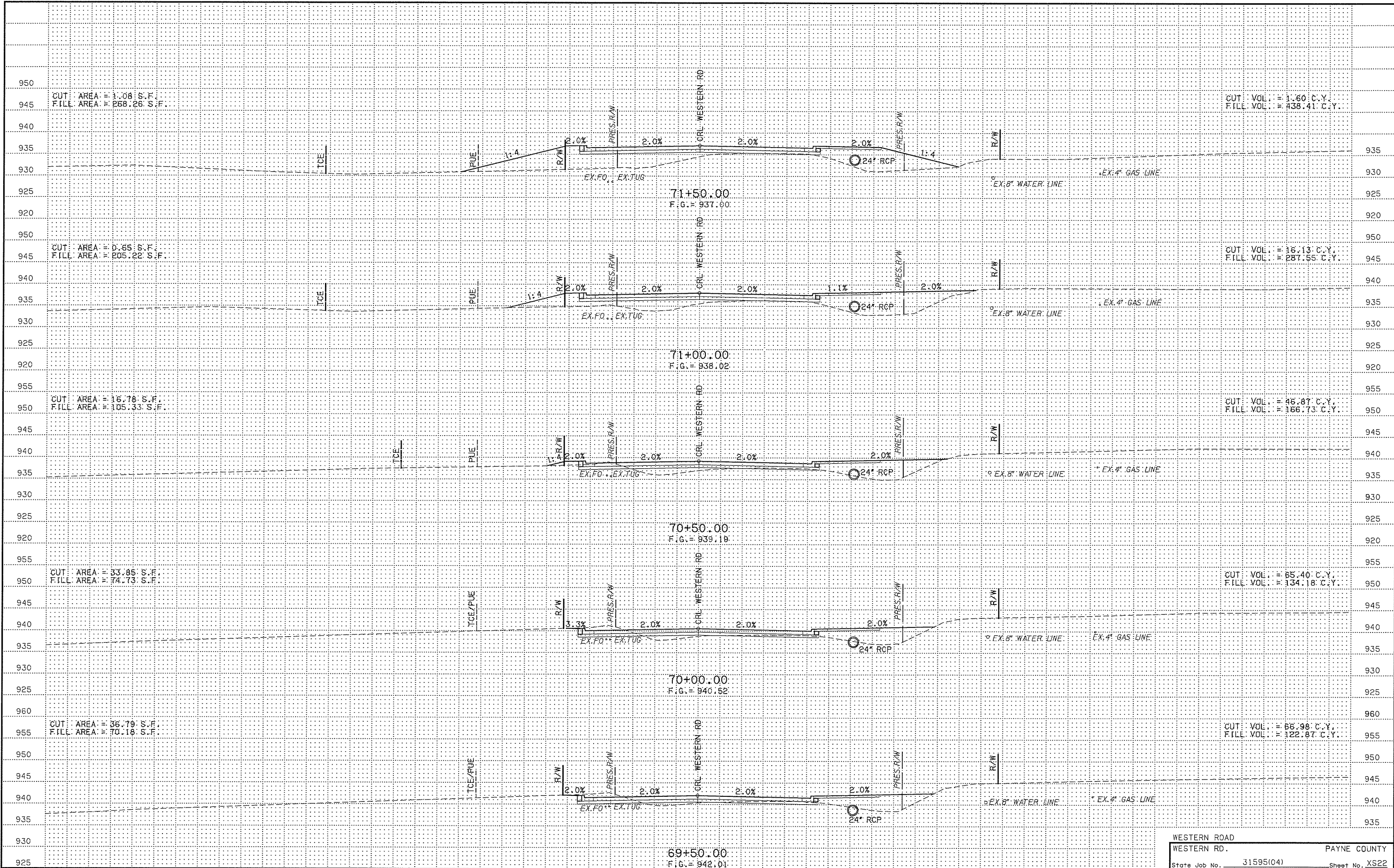


WESTERN ROAD	PAYNE COUNTY
WESTERN RD.	State Job No. 31595(04)
Sheet No. XS19	

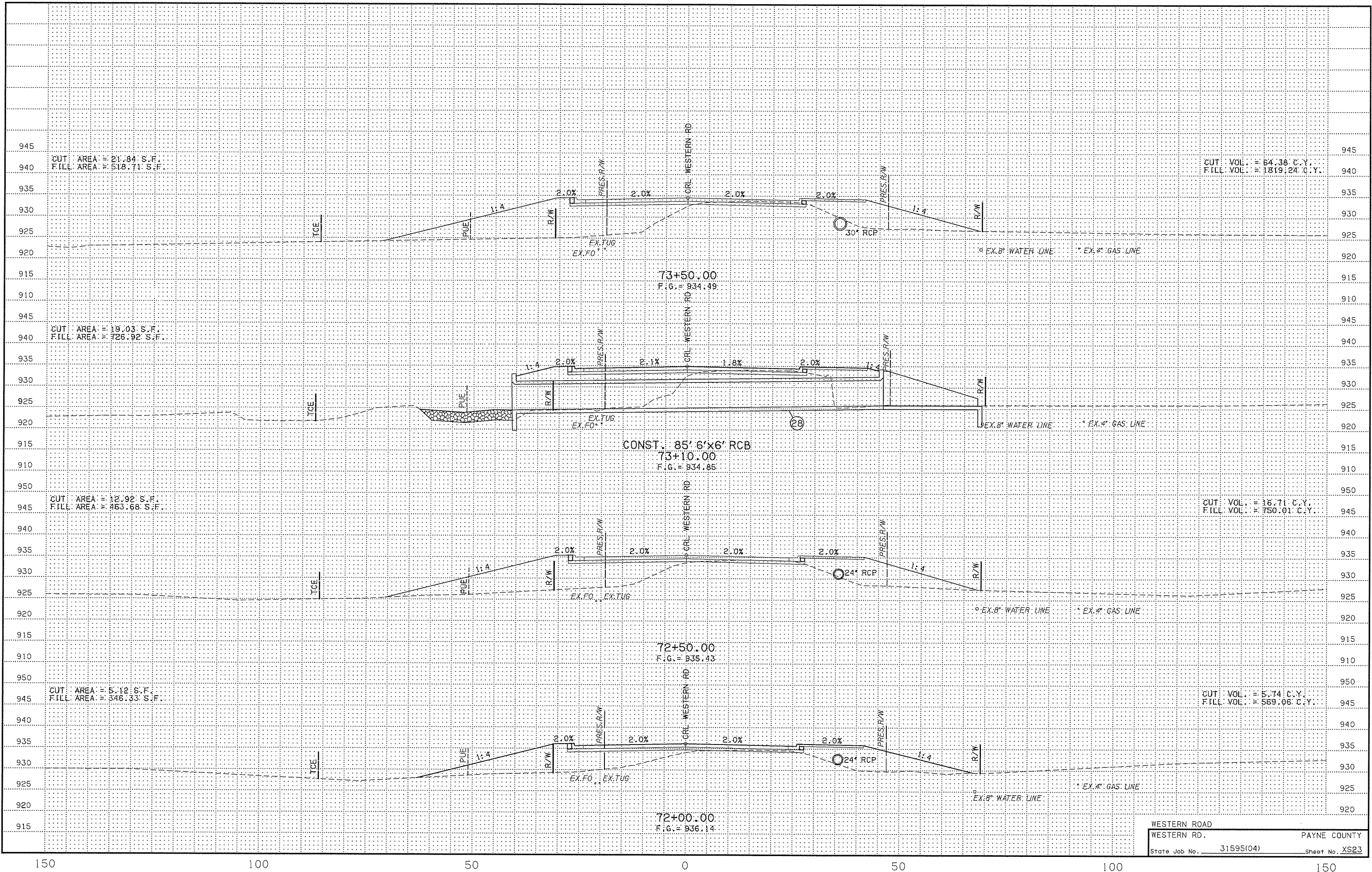












CUT AREA = 21.84 S.F.  
 FILL AREA = 518.71 S.F.

CUT VOL. = 64.38 C.Y.  
 FILL VOL. = 1819.24 C.Y.

73+50.00  
 F.G. = 934.49

CUT AREA = 19.03 S.F.  
 FILL AREA = 726.92 S.F.

CONST. 85' 6"x6' RCB  
 73+10.00  
 F.G. = 934.85

CUT AREA = 12.92 S.F.  
 FILL AREA = 463.68 S.F.

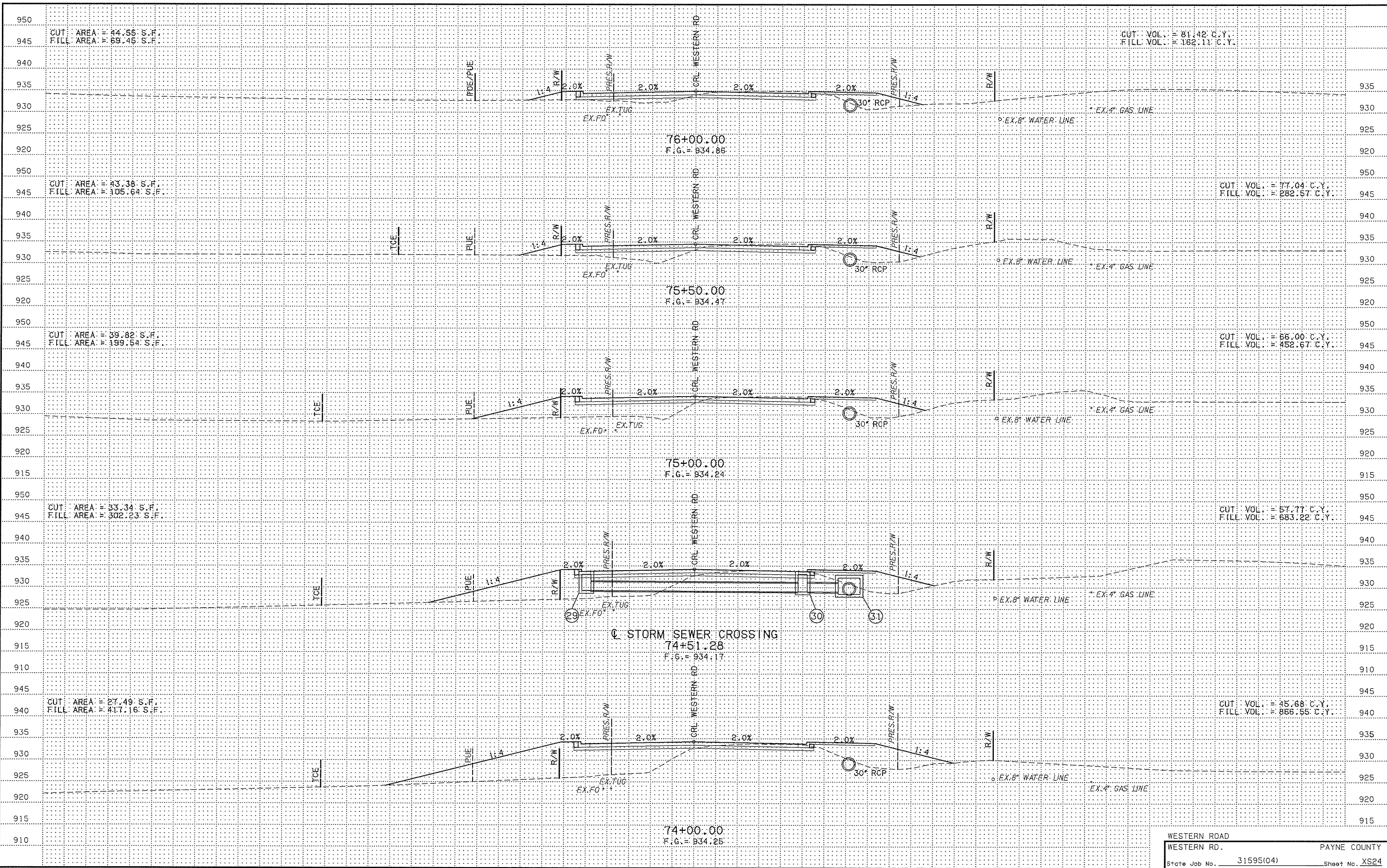
CUT VOL. = 16.71 C.Y.  
 FILL VOL. = 750.01 C.Y.

72+50.00  
 F.G. = 935.43

CUT AREA = 5.12 S.F.  
 FILL AREA = 346.33 S.F.

CUT VOL. = 5.74 C.Y.  
 FILL VOL. = 569.06 C.Y.

72+00.00  
 F.G. = 936.14



CUT AREA = 44.56 S.F.  
 FILL AREA = 69.45 S.F.

CUT VOL. = 81.42 C.Y.  
 FILL VOL. = 162.11 C.Y.

CUT AREA = 43.38 S.F.  
 FILL AREA = 105.64 S.F.

CUT VOL. = 77.04 C.Y.  
 FILL VOL. = 282.57 C.Y.

CUT AREA = 39.82 S.F.  
 FILL AREA = 199.54 S.F.

CUT VOL. = 66.00 C.Y.  
 FILL VOL. = 452.67 C.Y.

CUT AREA = 33.34 S.F.  
 FILL AREA = 302.23 S.F.

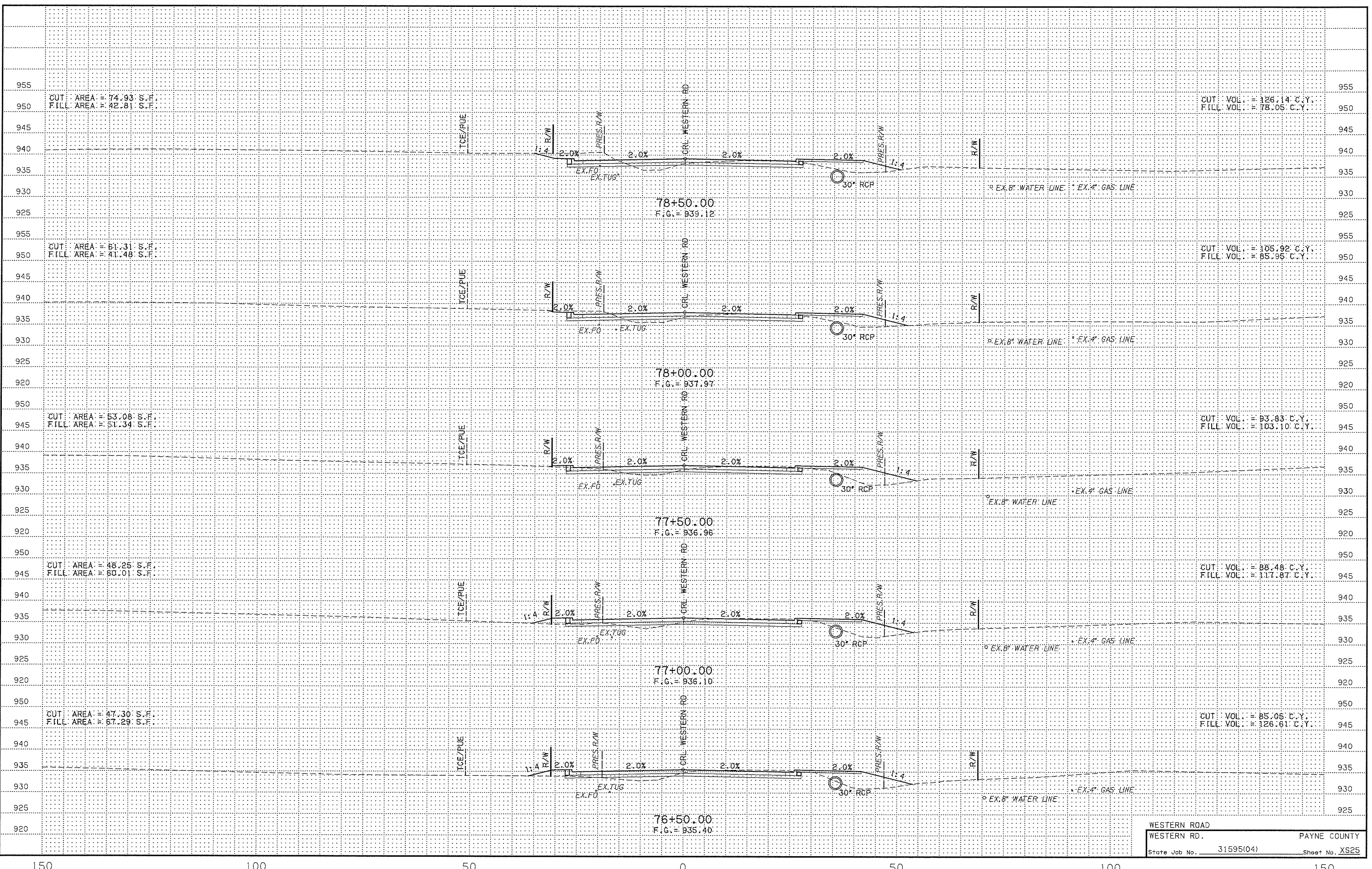
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 FILL VOL. = 683.22 C.Y.

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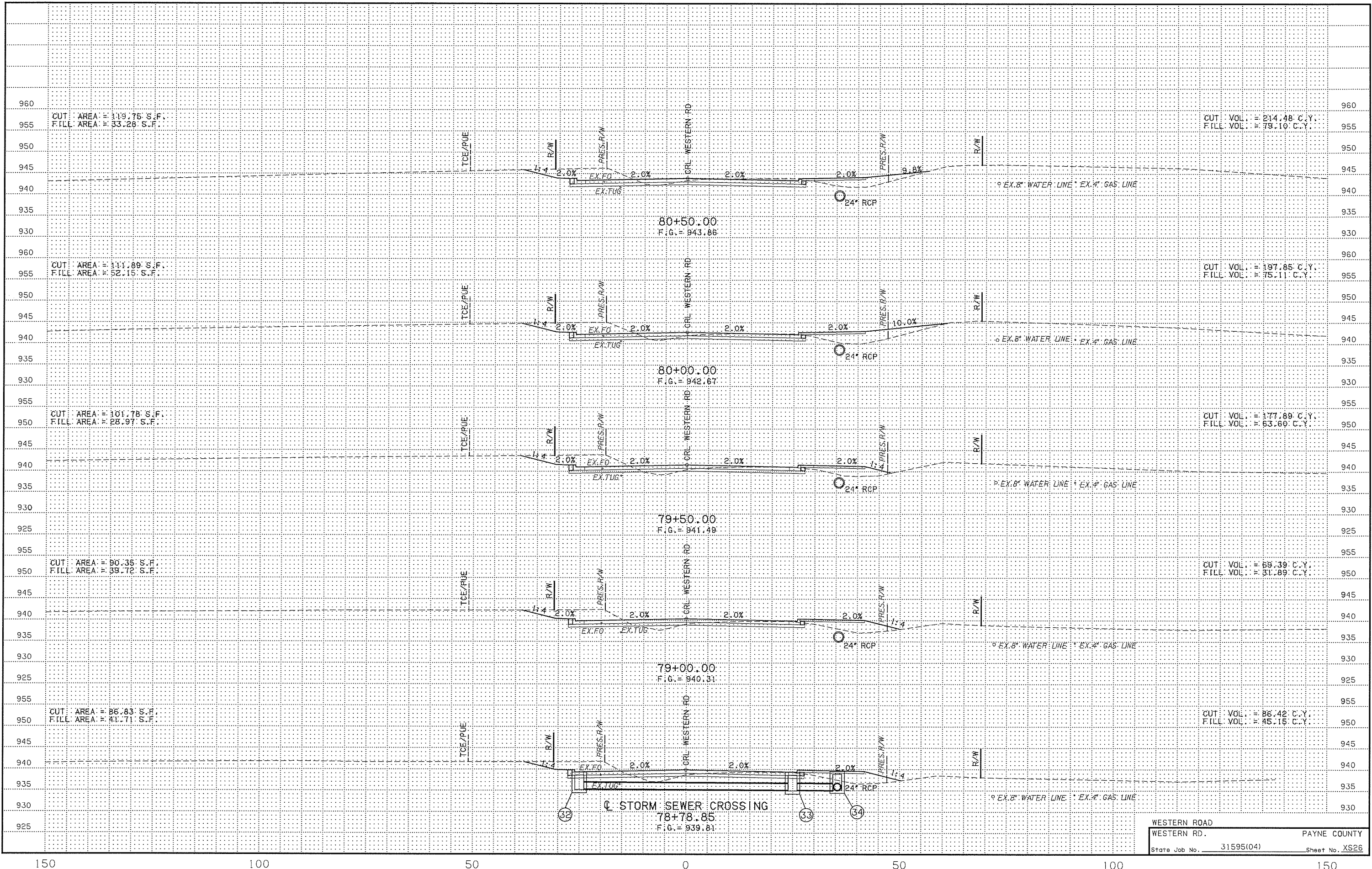
CUT VOL. = 45.68 C.Y.  
 FILL VOL. = 866.55 C.Y.

STORM SEWER CROSSING  
 74+51.28  
 F.G. = 934.17





WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS25



150

100

50

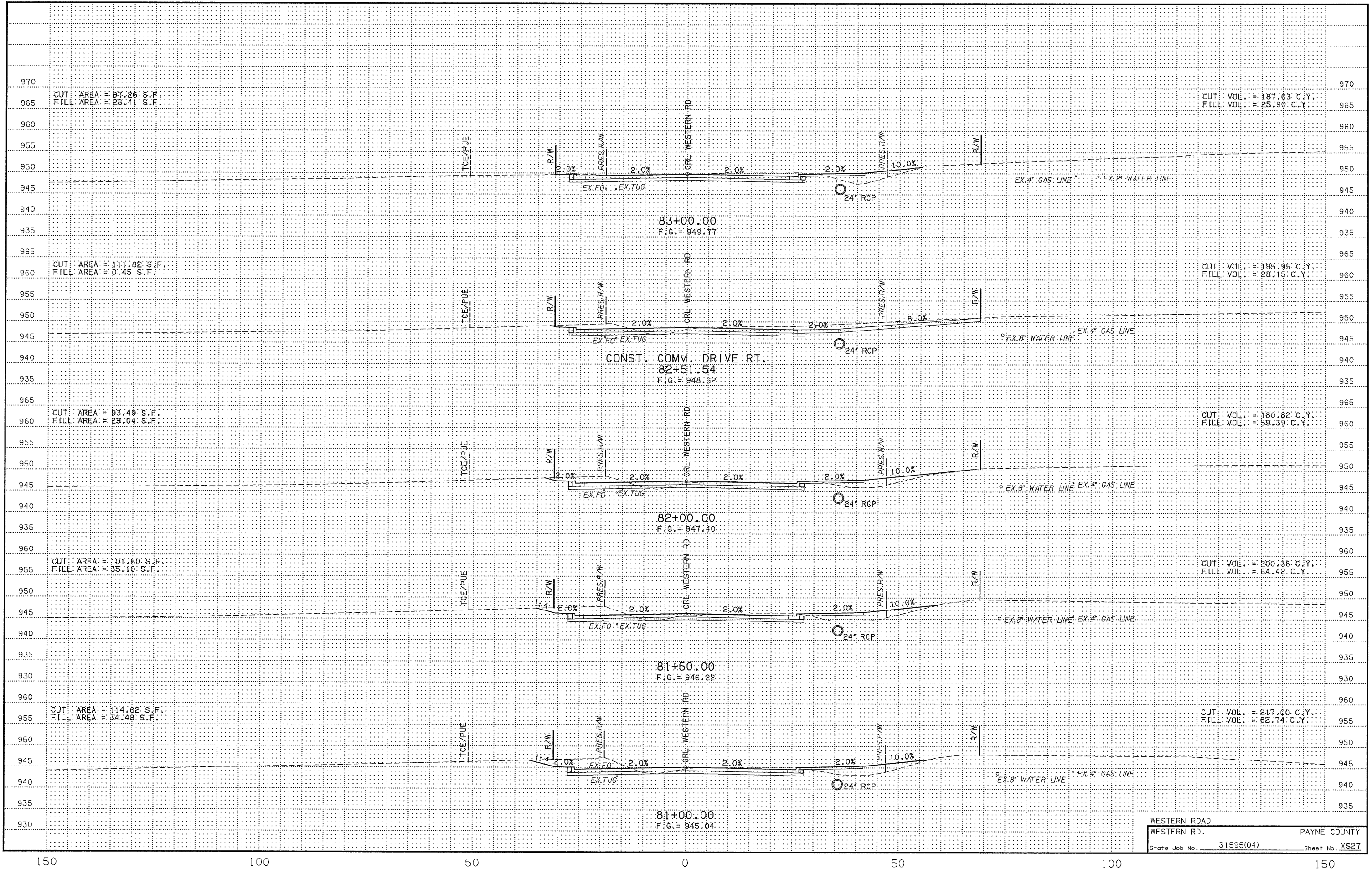
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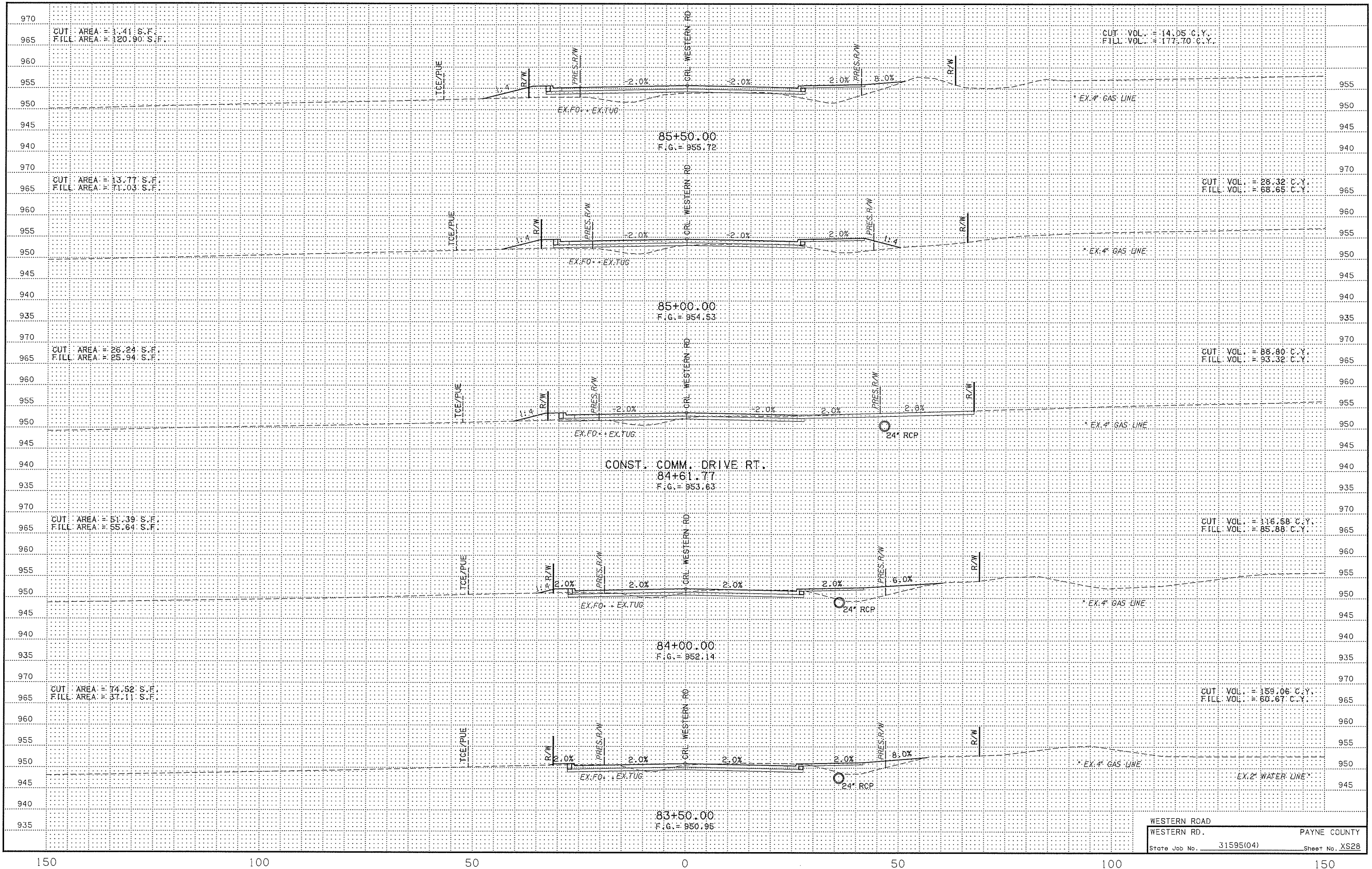
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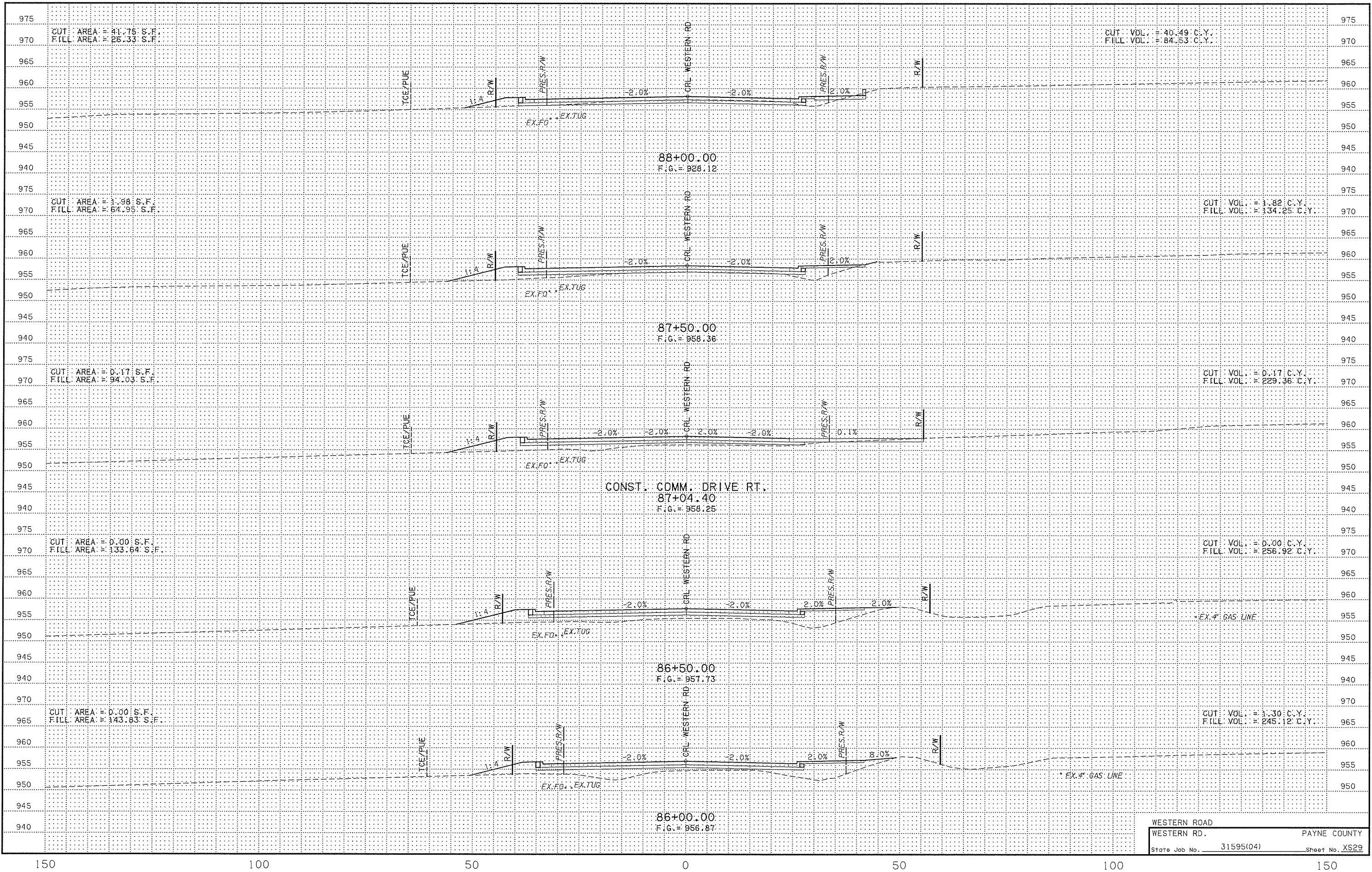
WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS26



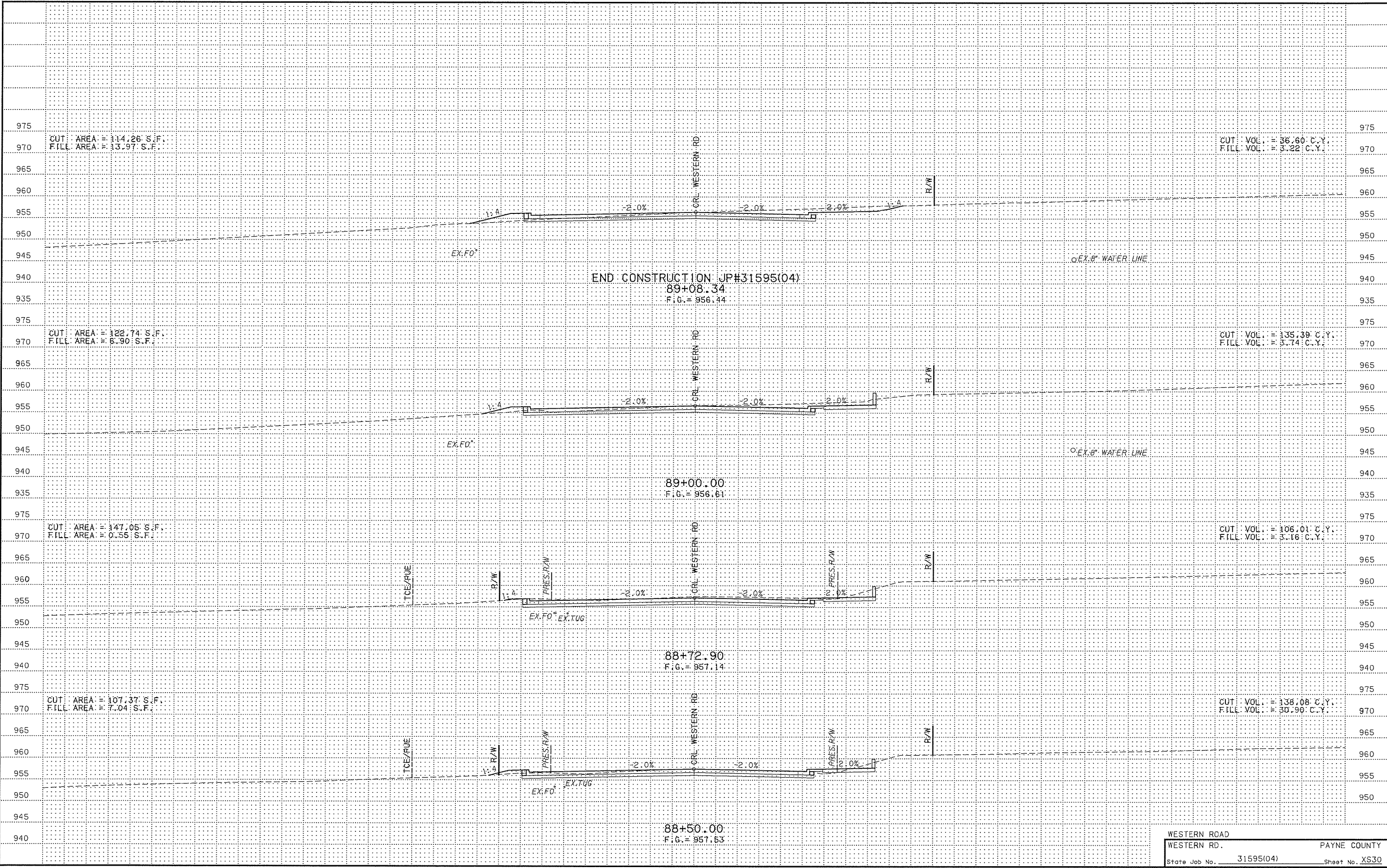
WESTERN ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS27











CUT AREA = 114.26 S.F.  
FILL AREA = 13.97 S.F.

CUT VOL. = 36.60 C.Y.  
FILL VOL. = 3.22 C.Y.

CUT AREA = 122.74 S.F.  
FILL AREA = 6.90 S.F.

CUT VOL. = 135.39 C.Y.  
FILL VOL. = 3.74 C.Y.

CUT AREA = 147.05 S.F.  
FILL AREA = 0.55 S.F.

CUT VOL. = 106.01 C.Y.  
FILL VOL. = 3.16 C.Y.

CUT AREA = 107.37 S.F.  
FILL AREA = 7.04 S.F.

CUT VOL. = 138.08 C.Y.  
FILL VOL. = 30.90 C.Y.

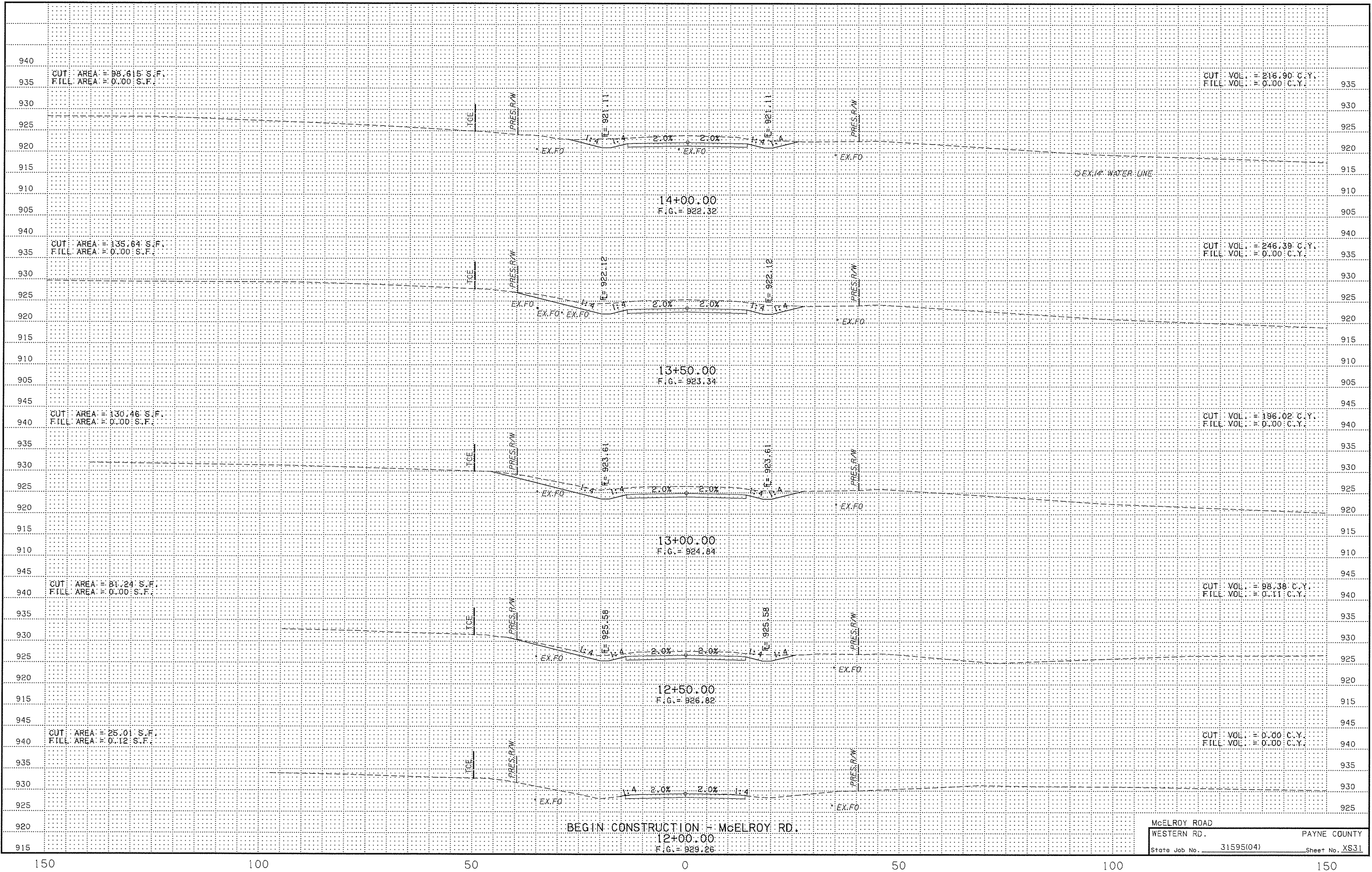
END CONSTRUCTION JP#31595(04)

89+08.34  
Fig. = 956.44

89+00.00  
Fig. = 956.61

88+72.90  
Fig. = 957.14

88+50.00  
Fig. = 957.53



BEGIN CONSTRUCTION - McELROY RD.  
 12+00.00  
 F.G. = 929.26

McELROY ROAD  
 WESTERN RD. PAYNE COUNTY  
 State Job No. 31595(04) Sheet No. XS31

