



**CURVE #5**  
 PI Sta= 11+61.39  
 R= 818.511'  
 Dc= 7°00'00.00"  
 Δ= 12°50'55.87"  
 L=183.555'  
 T= 92.164'  
 N= 168857.368  
 E= 2113549.535  
 CL=183.170'  
 CB=N 05°20'17" W  
 Ext=5.172'

**CURVE #9**  
 PI Sta= 228+50.82  
 R= 2000.000'  
 Dc= 2°51'53.24"  
 Δ= 8°41'51.62"  
 L=303.606'  
 T= 152.095'  
 N= 168687.499  
 E= 2114807.556  
 CL=303.315'  
 CB=N 85°20'20" E  
 Ext=5.775'

**CURVE #8**  
 PI Sta= 225+47.21  
 R= 2000.000'  
 Dc= 2°51'53.24"  
 Δ= 8°41'51.62"  
 L=303.606'  
 T= 152.095'  
 N= 168639.861  
 E= 2114507.118  
 CL=303.315'  
 CB=N 85°20'20" E  
 Ext=5.775'

STA=218+50 BEGIN WORK PACKAGE 4.5

PACKAGE 1.5

| CENTERLINE POINTS |              |               |      |              |               |
|-------------------|--------------|---------------|------|--------------|---------------|
| PT                | NORTH        | EAST          | PT   | NORTH        | EAST          |
| 1919              | 168634.15440 | 2113459.93160 | 1942 | 168691.58443 | 2115557.31061 |
| 1920              | 168634.61967 | 2113545.31059 | 1943 | 168692.12936 | 2115657.30912 |
| 1921              | 168634.69933 | 2113559.93011 | 1944 | 168692.27028 | 2115683.16874 |
| 1922              | 168635.24426 | 2113659.92863 | 1945 | 168265.70021 | 2113538.31473 |
| 1923              | 168635.78919 | 2113759.92714 | 1946 | 168295.69481 | 2113538.88352 |
| 1924              | 168636.33412 | 2113859.92566 | 1947 | 168395.67684 | 2113540.77949 |
| 1925              | 168636.87904 | 2113959.92417 | 1948 | 168495.65886 | 2113542.67546 |
| 1926              | 168637.42397 | 2114059.92269 | 1949 | 168595.64089 | 2113544.57143 |
| 1927              | 168637.96890 | 2114159.92120 | 1950 | 168634.61964 | 2113545.31059 |
| 1928              | 168638.51383 | 2114259.91972 | 1951 | 168695.62291 | 2113546.46740 |
| 1930              | 168650.63156 | 2114559.49023 | 1952 | 168765.22040 | 2113547.78719 |
| 1931              | 168663.67981 | 2114657.33702 | 1953 | 168795.60865 | 2113547.79924 |
| 1932              | 168663.87940 | 2114658.59833 | 1954 | 168895.23277 | 2113539.88705 |
| 1933              | 168677.00147 | 2114757.72314 | 1955 | 168947.59691 | 2113530.74644 |
| 1934              | 168685.15296 | 2114857.37990 | 1956 | 168993.44814 | 2113521.19893 |
| 1935              | 168688.31351 | 2114957.31953 | 1957 | 169082.04790 | 2113502.75001 |
| 1936              | 168688.32756 | 2114959.64892 | 1958 | 169091.35695 | 2113500.85585 |
| 1937              | 168688.85980 | 2115057.31803 | 1959 | 169190.22315 | 2113486.09784 |
| 1938              | 168689.40472 | 2115157.31655 | 1961 | 169307.04854 | 2113480.95117 |
| 1939              | 168689.94965 | 2115257.31506 | 1962 | 168639.03207 | 2114355.02511 |
| 1940              | 168690.49458 | 2115357.31358 | 1963 | 168639.08440 | 2114359.90846 |
| 1941              | 168691.03951 | 2115457.31209 | 1964 | 168642.35281 | 2114459.84396 |

| REFERENCE POINTS |              |               |
|------------------|--------------|---------------|
| PT               | NORTH        | EAST          |
| 960              | 168434.62263 | 2113546.40045 |
| 961              | 168334.62412 | 2113546.94537 |
| 962              | 168234.62560 | 2113547.49030 |
| 963              | 168836.87607 | 2113958.83431 |
| 964              | 168886.87533 | 2113958.56185 |
| 965              | 168936.87459 | 2113958.28939 |
| 966              | 168759.89598 | 2114513.22871 |
| 967              | 168784.89561 | 2114513.09248 |
| 968              | 168809.89524 | 2114512.95625 |

| BENCHMARKS |            |             |          |
|------------|------------|-------------|----------|
| PT.        | NORTHING   | EASTING     | ELEV.    |
| 218        | 169035.846 | 2113924.810 | 1194.533 |
| 219        | 168829.045 | 2114401.687 | 1192.582 |
| 220        | 168952.339 | 2114975.752 | 1185.289 |
| 223        | 168247.883 | 2113738.449 | 1192.582 |



**SECTION 3, T11N-R3W, IM  
OKLAHOMA COUNTY, OKLAHOMA**

|          |     |  |
|----------|-----|--|
| DESIGN   |     | OKLAHOMA DEPARTMENT OF TRANSPORTATION<br>BENCHMARKS, REFERENCES & CENTERLINE BLVD.<br>STA. 218+50 TO STA. 230+00 |
| DRAWN    | LJ  |  |
| CHECKED  | DWM |  |
| APPROVED |     |  |

PROJECT NO. OKCY-XTWN (048) STATE JOB NO. 17428(88) SHEET NO. S13