

NOTE: BRIDGES TO BE LOCATED AT 1/3 POINTS.

NOTE: INTERIOR DIAPHRAGMS FOR 90° SKEW BRIDGES TO BE LOCATED AT 1/3 POINTS.

NOTE: ALL DIMENSIONS MAY REQUIRE SLIGHT ADJUSTMENT FROM FINISH SHOWN IN ORDER TO MAINTAIN THE REQUIRED 28'-0" CLEAR ROADWAY DIMENSION.

NOTE: 1'-6" LAP FOR ALL REINFORCING OVER 60'-0" IN LENGTH.

NOTE: DECK FORM SHALL BE 22 GAUGE TEMPERED COIL ROLLED STEEL SHEET FORMED TO A CORROSION RESISTANT SURFACE. THE MINIMUM THICKNESS SHALL BE AN AVERAGE MINIMUM YIELD STRENGTH OF NOT LESS THAN 80,000 PSI. STEEL SHALL CONFORM TO ASTM A 502, 503 OR COATING CLASS. DECK FORM SHALL BE 18 GAUGE GALVALUM WITH ZINC COATING CONFORMING TO ASTM A 792. END LAPS AND CENTER ALL END LAPS OVER BEAMS. DO NOT ALLOW BOTTOM SHEETS TO EXTEND BEYOND END TO END JOINTS. PROVIDE ONE CORROSION RESISTANT END TO END JOINT LAPPING ONE CORROSION RESISTANT WITH PREVIOUSLY PLACED SECTION.

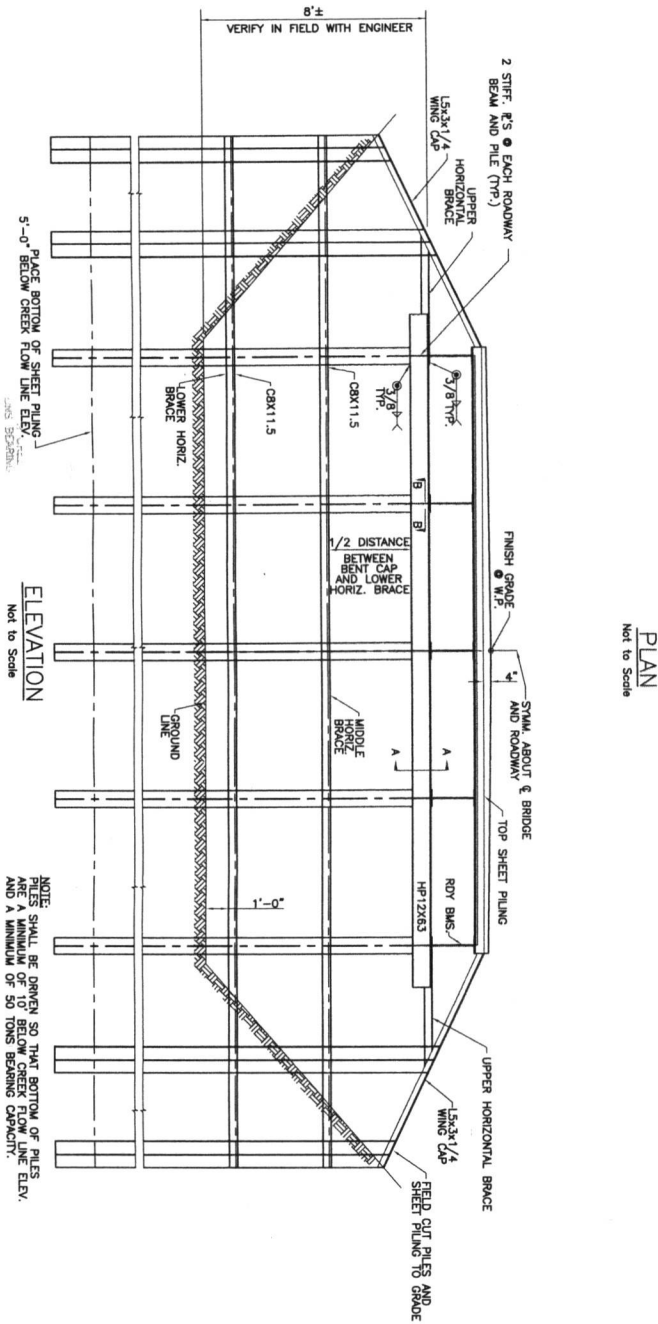
NOTE: DECK FORM MATERIAL SHALL BE ELECTRIC LAP WELDED 60-ksi STEEL SHEET. STEEL SHALL BE ELECTRIC LAP WELDED DECK SHEETS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. WELD SHALL NOT EXCEED 1/2" ON CENTER AT END LAP JOINTS AND 18" ON CENTER ON BEAMS. ALL SKEW CUTTING SHALL BE DONE IN THE BEAMS. ALL COST OF DECK FORM SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK.

| DECK LOC. | BAR | SIZE | SPACING | QTY. | LENGTH     |
|-----------|-----|------|---------|------|------------|
| TOP       | A1  | 4    | 18 IN.  | 19   | 59'-8"     |
| BOTTOM    | A2  | 4    | 9 IN.   | 38   | 59'-8"     |
| TOP       | A3  | 5    | 9 IN.   | 81   | 27'-2 1/2" |
| BOTTOM    | A4  | 5    | 6 IN.   | 121  | 27'-2 1/2" |

\* GRADE 60 REINF. STEEL

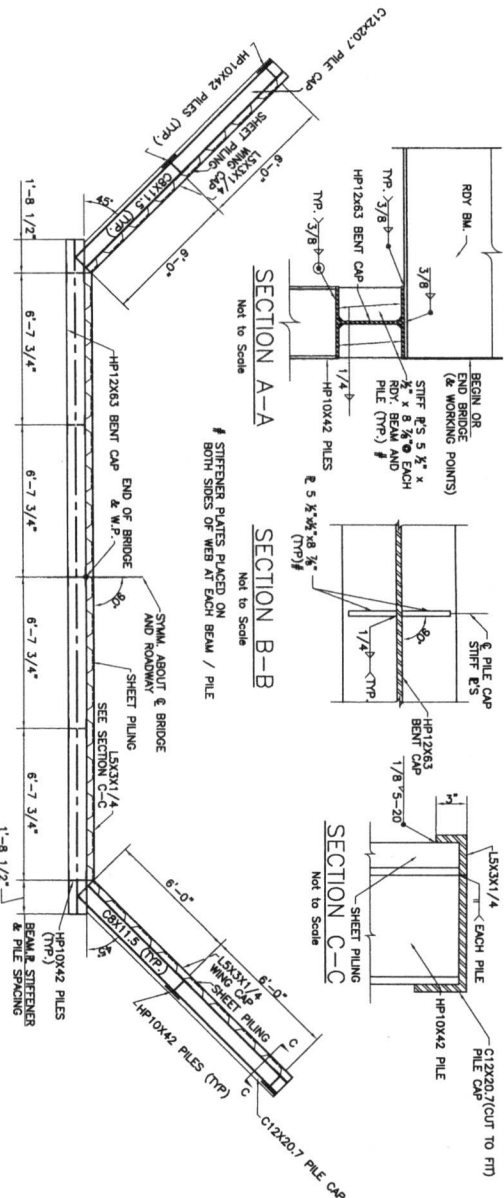
| DESIGN   | DATE | BY | APP'D |
|----------|------|----|-------|
| DESIGNED | 4/19 | WJ | WJ    |
| CHECKED  | 4/19 | WJ | WJ    |
| APPROVED | 4/19 | WJ | WJ    |

CIRCLE NO. 187 MUSKOGEE COUNTY  
60 COUNTY STEEL BRIDGE STANDARD  
DECK SECTION & DETAILS  
SHEET NO. 2



ELEVATION  
Not to Scale

NOTE:  
PILES SHALL BE DRIVEN SO THAT BOTTOM OF PILES  
HAVE A MINIMUM OF 10 FEET BELOW GRADE ELEV.  
AND A MINIMUM OF 50 TONS BEARING CAPACITY.



PLAN  
Not to Scale

SECTION A-A  
Not to Scale

SECTION B-B  
Not to Scale

SECTION C-C  
Not to Scale

SUMMARY OF QUANTITIES

| ITEM     | DESCRIPTION       | QTY. (EA) | SIZE       | TOTAL    |
|----------|-------------------|-----------|------------|----------|
| CONCRETE |                   |           |            |          |
| STEEL    |                   |           |            |          |
| HP10X42  | HP10X42 PILES     | 2         | 30'-0"     | 60'-0"   |
| HP12X63  | HP12X63 BENT CAPS | 18        | 20'-0"     | 360'-0"  |
| LS3X1/4  | LS3X1/4 WING CAPS | 88        | 20'-0"     | 1760'-0" |
| CBX11.5  | CBX11.5 BRACES    | N/A       | N/A        | 540.0 SF |
| LS3X1/4  | LS3X1/4 BRACES    | 20        | 20'-0"     | 400 SF   |
| CBX11.5  | CBX11.5 BRACES    | 2         | 60'-0"     | 120 SF   |
| CBX11.5  | CBX11.5 BRACES    | 2         | 27'-4 1/2" | 55'-1"   |
| W3X13    | W3X13 BRACES      | 5         | 60'-0"     | 300'-0"  |
| W3X13    | W3X13 BRACES      | 28        | 6'-1"      | 170'-0"  |
| W3X13    | W3X13 BRACES      | 28        | 1'-5"      | 40'-0"   |
| W3X13    | W3X13 BRACES      | 28        | 1'-5"      | 40'-0"   |
| LS3X1/4  | LS3X1/4 BRACES    | 48        | VARIES     | 144'-0"  |
| LS3X1/4  | LS3X1/4 BRACES    | 4         | 31'-0"     | 90'-0"   |
| HP10X42  | HP10X42 PILES     | 20        | N/A        | N/A      |
| HP12X63  | HP12X63 BENT CAPS | 20        | 27'-4 1/2" | 548'-0"  |
| HP12X63  | HP12X63 BENT CAPS | 20        | 27'-4 1/2" | 548'-0"  |
| HP12X63  | HP12X63 BENT CAPS | 174       | N/A        | N/A      |
| HP12X63  | HP12X63 BENT CAPS | 4         | 75'-0"     | 300'-0"  |

(1) ESTIMATED LENGTH  
(2) BEAMS SHOWN IN POSTS AND RAILS  
(3) BEAMS SHOWN BY OTHERS & CUTTING BEAMS INCLUDED IN OTHER ITEMS.  
(4) ADDING SHEAR CONNECTORS & CUTTING BEAMS INCLUDED IN OTHER ITEMS.  
(5) INCLUDES COST OF SLAB SPACERS & REBAR TIES

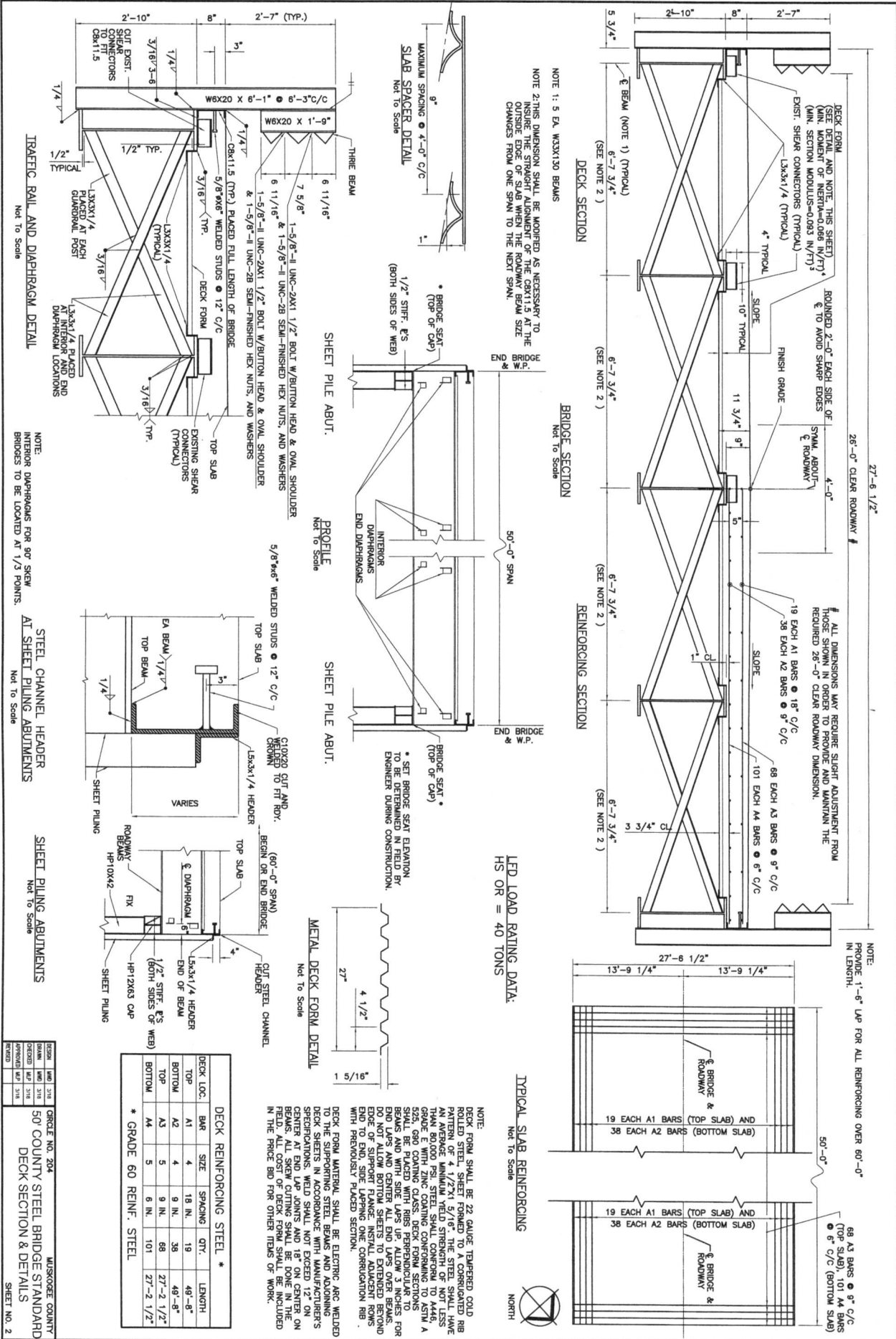
NOTES:  
STEEL PILES SHALL BE DRIVEN TO A MINIMUM BEARING OF 90 TONS BEARING CAPACITY. ALL PILES SHALL BE DRIVEN TO REFUSAL.  
SHEET PILING SHALL BE 18 INCH, 10 GAUGE & 35 KI (MINIMUM).  
STRUCTURAL STEEL SHALL BE 36 KI.  
CONCRETE SHALL BE CLASS "A".  
REINFORCING STEEL SHALL BE GRADE 60.  
AT TYPICAL SHEET PILING MAY BE USED UPON APPROVAL OF THE ENGINEER.  
LOAD CAPACITY SHALL BE NO LESS THAN THAT PROVIDED BY SECTION SPECIFIED ON THIS SHEET.

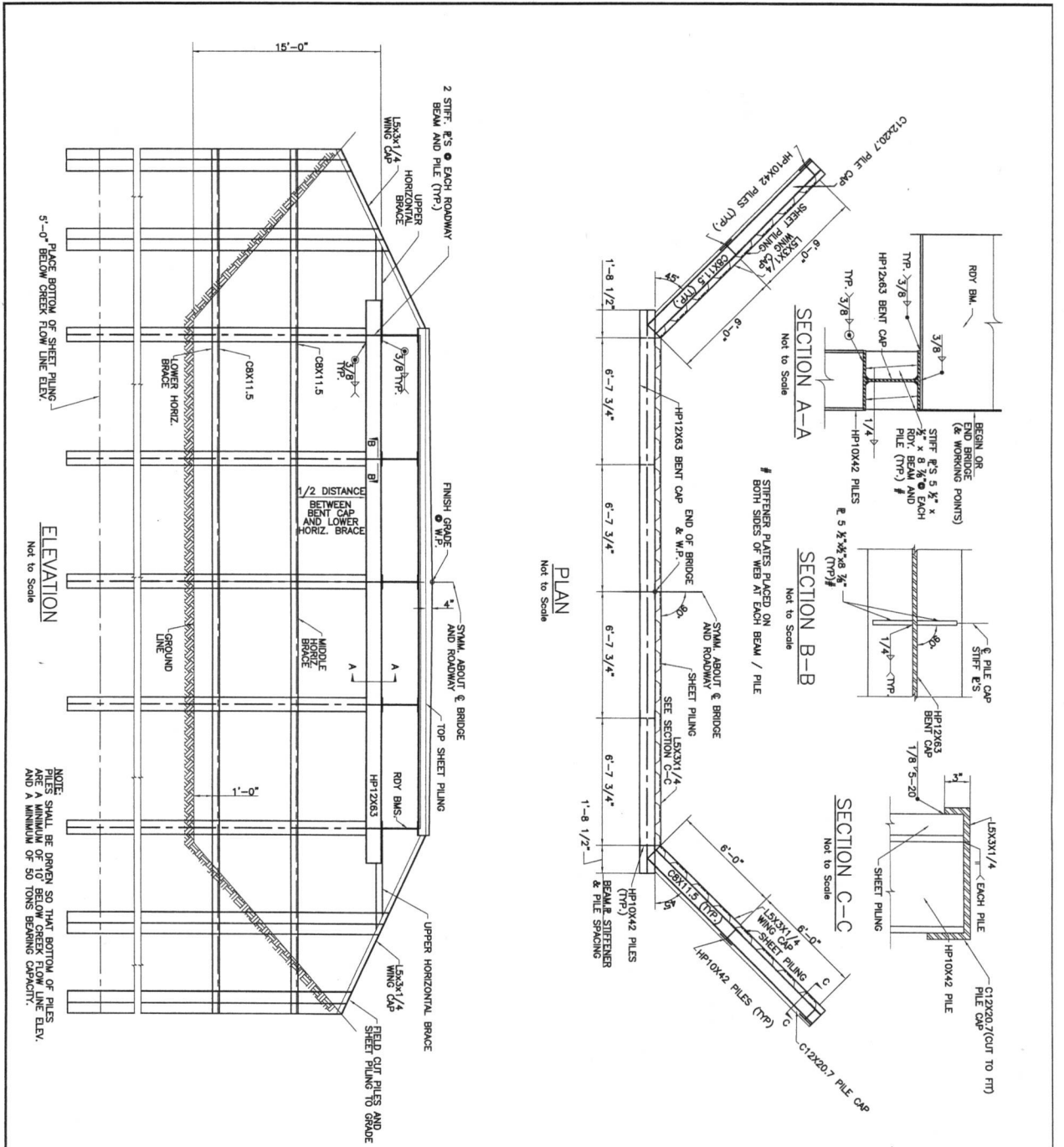
STEEL PILING AND SHEET PILING SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM A572 FROM MATERIAL CONFORMING TO ASTM A572 AT A RATE OF 2.02 PER SQUARE FOOT OF SURFACE AREA ON BOTH SIDES. PRECISELY WAZED AND PER ASTM A572 WITH A CLASS 250 COATING. STEEL SHEET PILING SHALL BE 10 GAUGE & 1/4 INCHES THICK WEIGHING 10.0 LBS. PER LINEAR FOOT OF PILE OR 7.125 PER SQUARE FEET OF WALL. SHALL HAVE SECTION MODULUS OF 1.80 IN<sup>4</sup> PER SECTION AND MOMENT OF INERTIA OF 50 IN<sup>4</sup> PER SECTION.

60' COUNTY STEEL BRIDGE STANDARD ABUTMENT DETAILS  
SHEET NO. 3









NOTE:  
PILES SHALL BE DRIVEN SO THAT BOTTOM OF PILES  
ARE AT THE SAME ELEVATION AS THE BOTTOM OF THE  
AND A MINIMUM OF 50 TONS BEARING CAPACITY.

| ITEM                 | DESCRIPTION | QTY (EA) | SIZE       | TOTAL         |
|----------------------|-------------|----------|------------|---------------|
| DUP-PILES            | L3X3X1/4    | 16       | 20"        | 320'-0"       |
| BENT CAPS            | HP12X63     | 2        | 30'-0"     | 60'-0"        |
| PILES (1)            | HP10X42     | 18       | 40'-0"     | 720'-0"       |
| PILES (2)            | HP10X42     | 18       | 40'-0"     | 720'-0"       |
| CLASS. AL. CONC. (6) | DECK CONC.  | N/A      | 47.2 C.Y.  |               |
| DECK FORMS           | CORR. METAL | 25       | 20' x 3'   | 1,500 S.F.    |
| DECK FORMS           | L3X3X1/4    | 8        | 90'-0"     | 400'-0"       |
| DECK FORMS           | CORR115     | 2        | 90'-0"     | 100'-0"       |
| BEAMS (1)            | W6X20       | 2        | 27'-0"     | 54'-0"        |
| BEAMS (2)            | W6X20       | 2        | 6'-4"      | 12'-8"        |
| G. RAIL POSTS (2)    | W6X20       | 28       | 1'-0"      | 28'-0"        |
| G. RAIL BLOCKS (2)   | W6X20       | 28       | 1'-0"      | 28'-0"        |
| GUARD RAIL W BEAMS   | THREE BEAMS | 2        | 81'-3"     | 162'-6"       |
| SHIELDING            | CORR115     | 48       | 3'-0"      | 144'-0"       |
| SHIELDING            | HP10X42     | 4        | 21'-3"     | 85'-2"        |
| SHIELDING            | HP10X42     | 20       | N/A        | N/A           |
| STIFFENER PLATES     | #4 BARS     | 57       | 49'-0"     | 2,811'-0"     |
| REINFORCING STEEL    | #5 BARS     | 179      | 27'-2 1/2" | 4,871'-1 1/2" |
| WELDED STUDS         | #8 BARS     | 154      | N/A        | N/A           |
| UNIT (TYP)           | BEHR-2      | 4        | 75'-0"     | 300'-0"       |

NOTES:  
(1) ESTIMATED LENGTH  
(2) INCLUDES COST FOR 28 POSTS AND RAILS  
(3) BEAMS PROVIDED BY OTHERS. CUTTING BEAMS INCLUDED IN OTHER ITEMS  
(4) INCLUDES COST FOR 28 SPACER CHAINS & REBAR TIES  
(5) INCLUDES COST OF 2800 SPACER CHAINS & REBAR TIES

NOTE:  
PILES SHALL BE DRIVEN TO A MINIMUM BEARING OF 80 TONS BEARING CAPACITY. ALL PILES SHALL BE DRIVEN TO REFUSAL.  
SHEET PILING SHALL BE 18 INCH, 10 GAUGE & 36 KI (MINIMUM).  
STRUCTURAL STEEL SHALL BE 36 KI.  
CONCRETE SHALL BE CLASS "A".  
REINFORCING STEEL SHALL BE GRADE 60.  
ALTERNATE SHEET PILING MAY BE USED UPON APPROVAL OF THE ENGINEER.  
LOAD CAPACITY SHALL BE NO LESS THAN THAT PROVIDED BY SECTION SPECIFIED ON THIS SHEET.

STEEL PILING  
STEEL SHEET PILING SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM A572 FROM MATERIAL CONFORMING TO ASTM A572 GRADE 50. THE MATERIAL SHALL BE GALVANIZED TO A MINIMUM OF 0.015 INCHES PER SQUARE FOOT OF SURFACE AREA ON BOTH SIDES. PRECALCULATED MATERIAL SHALL CONFORM TO ASTM A446 GRADE A AND BE GALVANIZED PER ASTM A572 WITH A CLASS C210 COATING. STEEL SHEET PILING SHALL BE 10 GAUGE 18 INCHES THICK WEARING 3/8 IN. PER SQUARE FOOT OF PILE 10 IN. PER SECTION AND MOMENT OF INERTIA OF 6.9 IN. 7 PER SECTION.

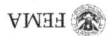
NOTE:  
THE EXISTING NORTH ABUTMENT SHALL REMAIN IN PLACE  
THE NEW PILING WILL BE DRIVEN BEHIND IT. THE COUNTY  
WILL DEMO THE SOUTH ABUTMENT, AND BACKFILL THE  
APPROACH ROADWAY.

CIRCLE NO. 204 MUSKOGEE COUNTY  
50 COUNTY STEEL BRIDGE STANDARD  
ABUTMENT DETAILS  
SHEET NO. 3





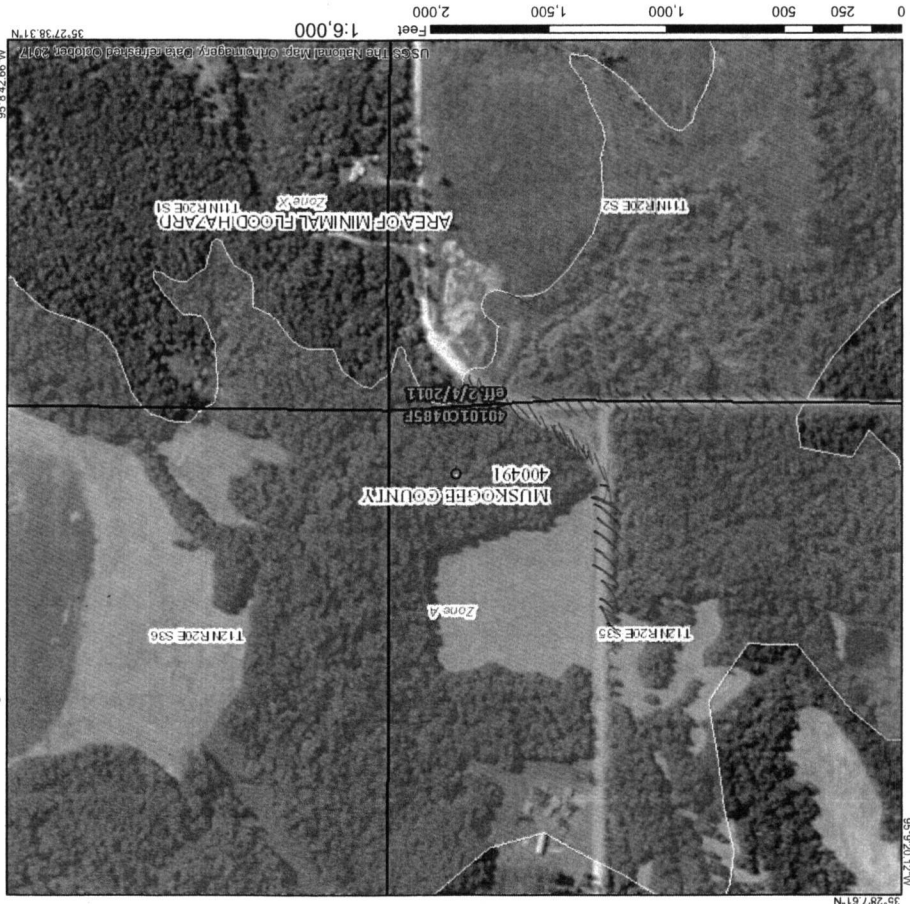
# National Flood Hazard Layer FIRMette



## Legend

SEE THIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS
  - Without Base Flood Elevation (BFE)
  - With BFE or Depth
  - Zone A, V, X, Y, Z
  - Regulatory Floodway
- FLOOD HAZARD AREAS
  - Area with Flood Risk due to Levee
  - Area with Reduced Flood Risk due to Levee
  - Chance Flood Hazard
  - Future Conditions 1% Annual
  - Area of less than one foot or with drainage depth less than one foot or with drainage
- OTHER AREAS
  - Area of Minimal Flood Hazard
  - Area of Undetermined Flood Hazard
- GENERAL STRUCTURES
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- OTHER FEATURES
  - Cross Sections with 1% Annual Chance
  - Water Surface Elevation
  - Base Flood Elevation Line (BFE)
  - Coastal Transsect
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transsect Baseline
  - Profile Baseline
  - Hydrographic Feature
- MAP PANELS
  - Digital Data Available
  - No Digital Data Available
  - Unmapped



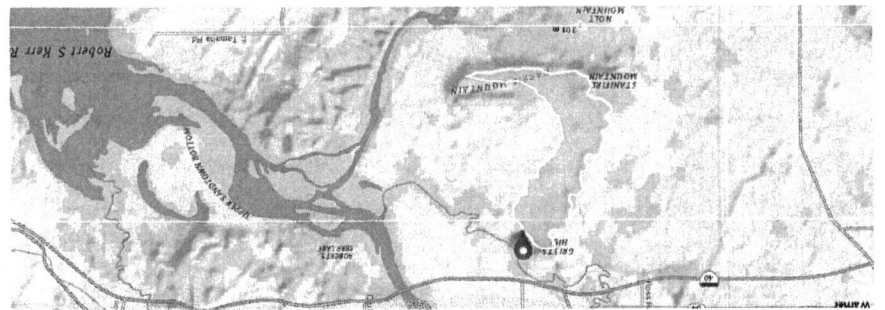
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/1/2019 at 1:43:04 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, county identifiers, FIRM panel number, and FIRM effective date. Map imagery for unmapped and unmapped areas cannot be used for regulatory purposes.



**StreamStats Report on 187 muskogee co.**



Region ID: OK  
 Workspace ID: OK20190429170500376000  
 Clicked Point (Latitude, Longitude): 35.46404, 95.15981  
 Time: 2019-04-29 12:08:02 -0500

**Basin Characteristics**

| Parameter Code | Parameter Description  | Value | Unit         |
|----------------|--|-------|--------------|
| DAUNREG        | Unregulated drainage area used in OK regulated equations   | 5.78  | square miles |
| CSL10_85fm     | Change in elevation between points 10 and 85 percent of length along main channel to basin divide divided by length between points ft per mi | 44.2  | feet per mi  |
| PRECIP         | Mean Annual Precipitation  | 46.78 | inches       |
| CONTA          | Area that contributes flow to a point on a stream  | 5.78  | square miles |

**Peak Flow Statistics Parameter Peak Statistics**

| Parameter Code | Parameter Name                          | Value | Unit         | Min Limit | Max Limit |
|----------------|---|-------|--------------|-----------|-----------|
| DAUNREG        | Unregulated Drainage Area               | 5.78  | square miles | 0.1       | 2510      |
| CSL10_85fm     | Stream Slope 10 and 85 Method ft per mi | 44.2  | feet per mi  | 1.98      | 342       |
| PRECIP         | Mean Annual Precipitation               | 46.78 | inches       | 16.6      | 62.1      |

**Peak Flow Statistics Parameter Peak Statistics**

| Parameter Code | Parameter Name                          | Value | Unit         | Min Limit | Max Limit |
|----------------|---|-------|--------------|-----------|-----------|
| CONTA          | Contributing Drainage Area              | 5.78  | square miles | 0.1       | 2510      |
| CSL10_85fm     | Stream Slope 10 and 85 Method ft per mi | 44.2  | feet per mi  | 1.98      | 342       |
| PRECIP         | Mean Annual Precipitation               | 46.78 | inches       | 16.6      | 62.1      |

**Peak Flow Statistics Flow Report Peak Statistics**

| Statistic                      | Value | Unit               | SEP  | Equiv. Yrs. |
|--------------------------------|-------|--------------------|------|-------------|
| Controlled 2 Year Peak Flood   | 1030  | ft <sup>3</sup> /s | 46.7 | 2           |
| Controlled 5 Year Peak Flood   | 1980  | ft <sup>3</sup> /s | 35.1 | 5           |
| Controlled 10 Year Peak Flood  | 2890  | ft <sup>3</sup> /s | 31.8 | 8           |
| Controlled 25 Year Peak Flood  | 4390  | ft <sup>3</sup> /s | 34.7 | 9           |
| Controlled 50 Year Peak Flood  | 5270  | ft <sup>3</sup> /s | 34   | 11          |
| Controlled 100 Year Peak Flood | 6410  | ft <sup>3</sup> /s | 35.7 | 12          |
| Controlled 500 Year Peak Flood | 9320  | ft <sup>3</sup> /s | 43.3 | 12          |

**Peak Flow Statistics Flow Report Peak Statistics**

| Statistic           | Value | Unit               | SEP  | Equiv. Yrs. |
|---------------------|-------|--------------------|------|-------------|
| 2 Year Peak Flood   | 1030  | ft <sup>3</sup> /s | 46.7 | 2           |
| 5 Year Peak Flood   | 1980  | ft <sup>3</sup> /s | 35.1 | 5           |
| 10 Year Peak Flood  | 2890  | ft <sup>3</sup> /s | 31.8 | 8           |
| 25 Year Peak Flood  | 4390  | ft <sup>3</sup> /s | 34.7 | 9           |
| 50 Year Peak Flood  | 5270  | ft <sup>3</sup> /s | 34   | 11          |
| 100 Year Peak Flood | 6410  | ft <sup>3</sup> /s | 35.7 | 12          |
| 500 Year Peak Flood | 9320  | ft <sup>3</sup> /s | 43.3 | 12          |

**Peak Flow Statistics Citations**

Lewis, J.M., 2010. Methods for estimating the magnitude and frequency of peak streamflows for unregulated streams in Oklahoma. U.S. Geological Survey Scientific Investigations Report SIR 2010-5137, 41 p. (<http://pubs.usgs.gov/sir/2010/5137/>)

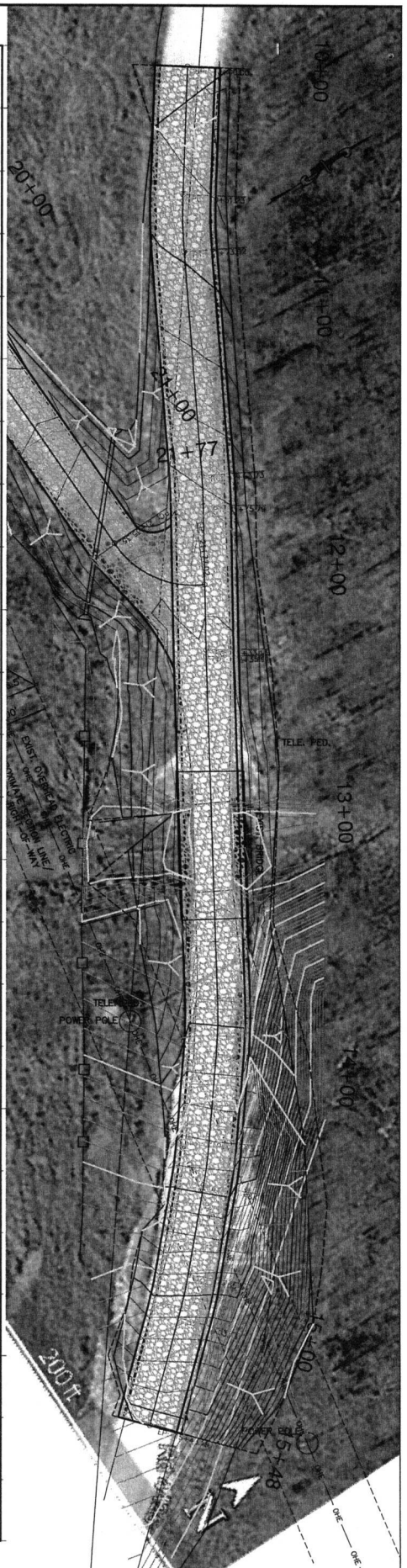
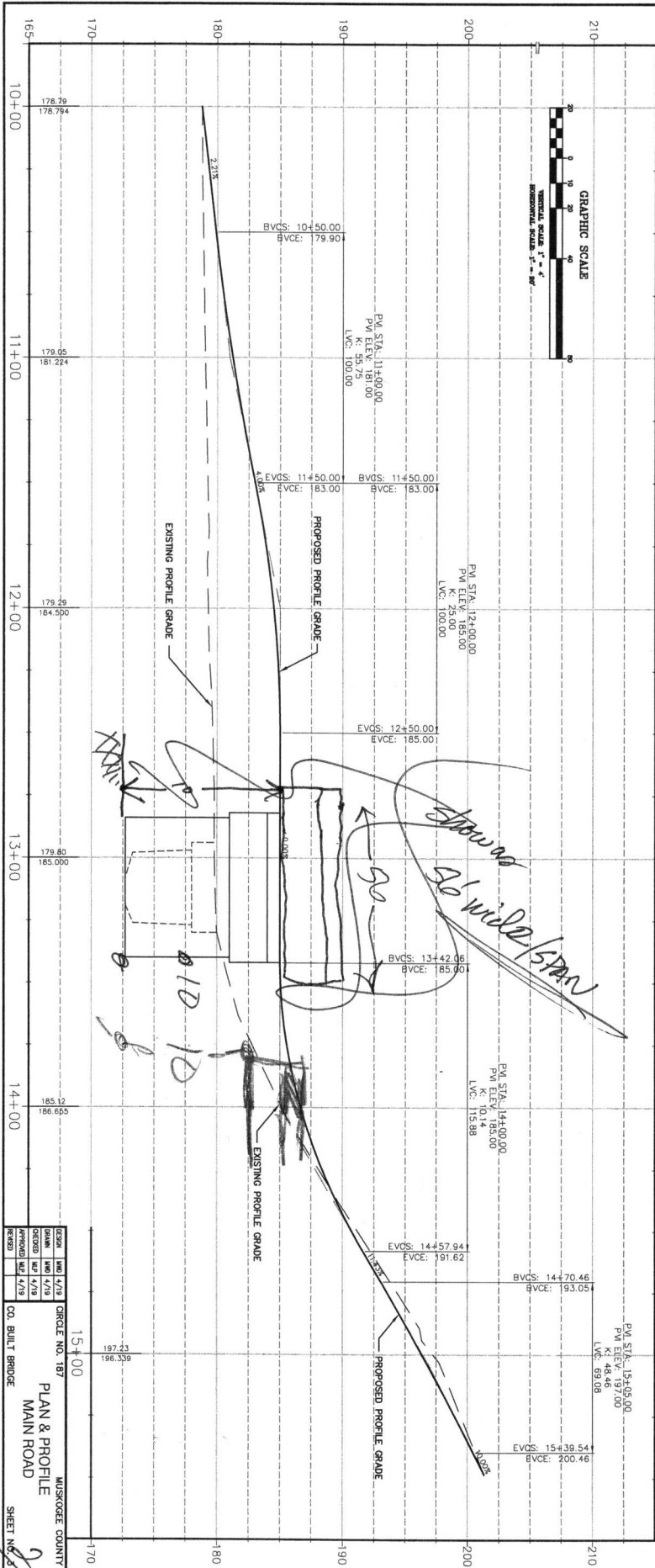
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EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2

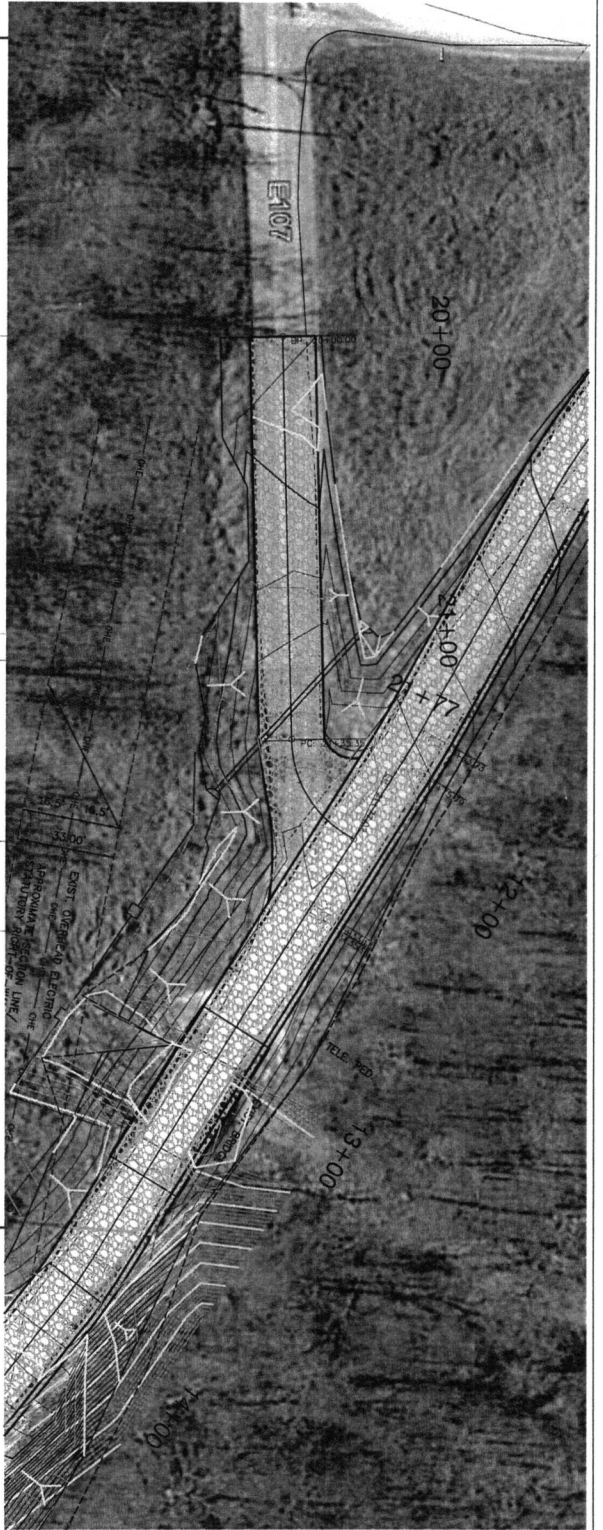
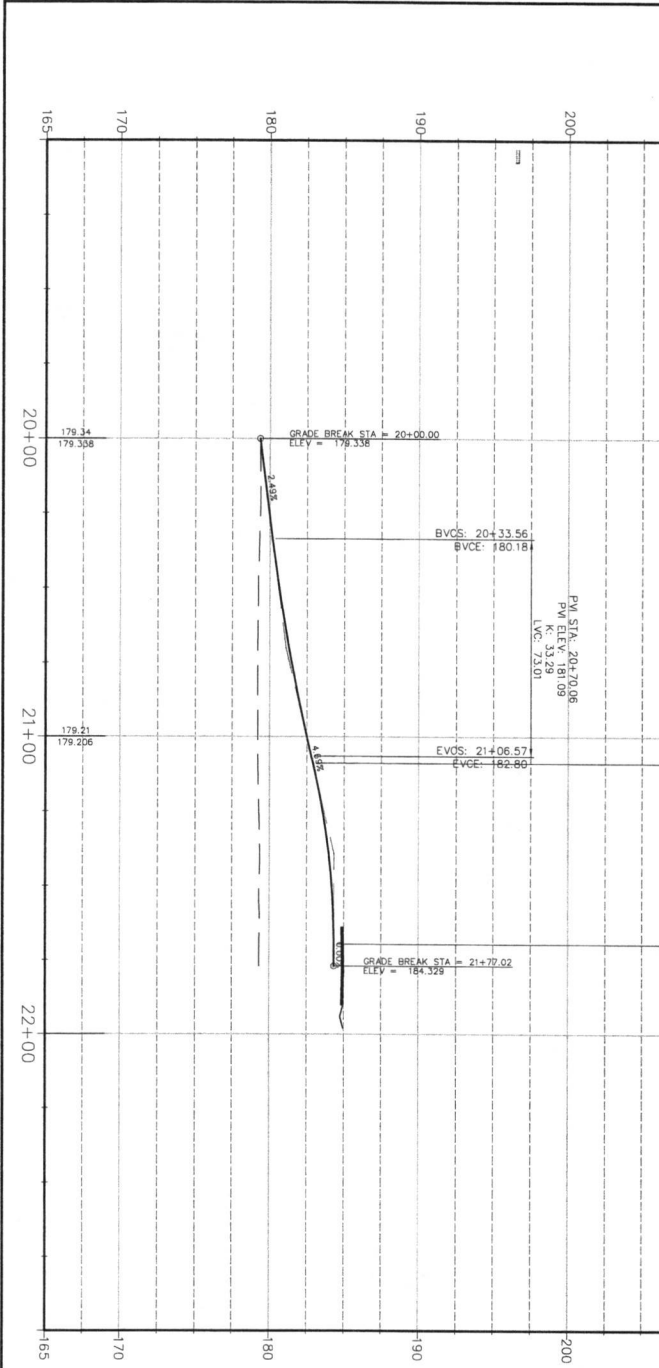


| NO. | DATE    | BY   | CHKD. | APP. |
|-----|---------|------|-------|------|
| 1   | 8/28/20 | mark | mark  | mark |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
MAIN ROAD  
SHEET NO. 2

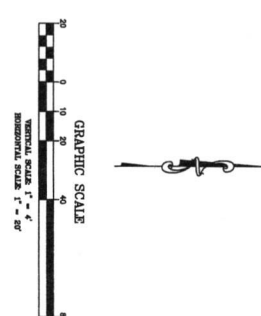


EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2



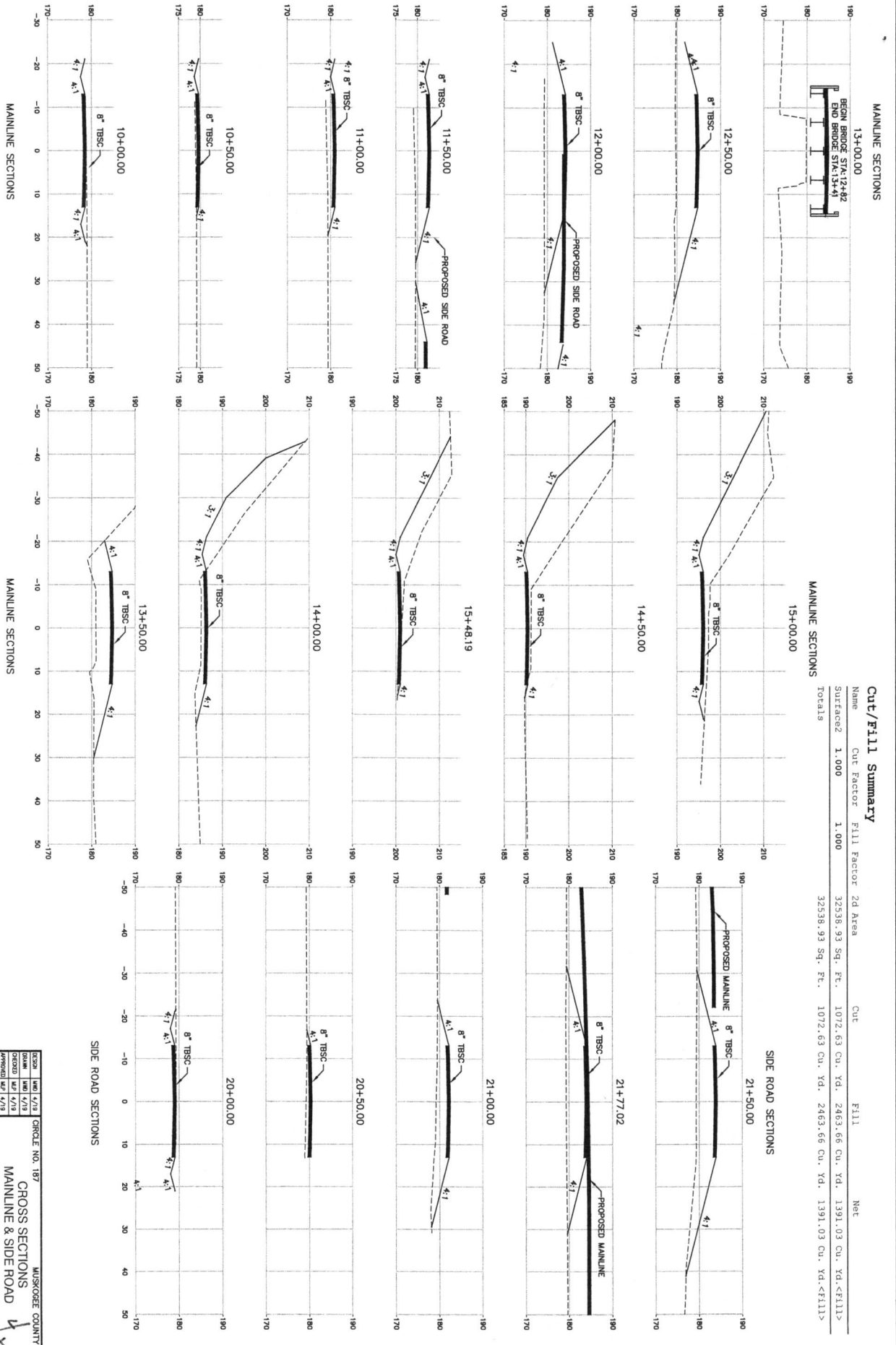
|          |         |     |          |                |
|----------|---------|-----|----------|----------------|
| DESIGN   | DATE    | BY  | SCALE    | DESCRIPTION    |
| DESIGNED | 8/28/20 | MAJ | 1" = 40' | PLAN & PROFILE |
| APPROVED | 8/28/20 | MAJ | 1" = 40' | PLAN & PROFILE |
| REVISION | 8/28/20 | MAJ | 1" = 40' | PLAN & PROFILE |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
SIDE ROAD  
SHEET NO. 3





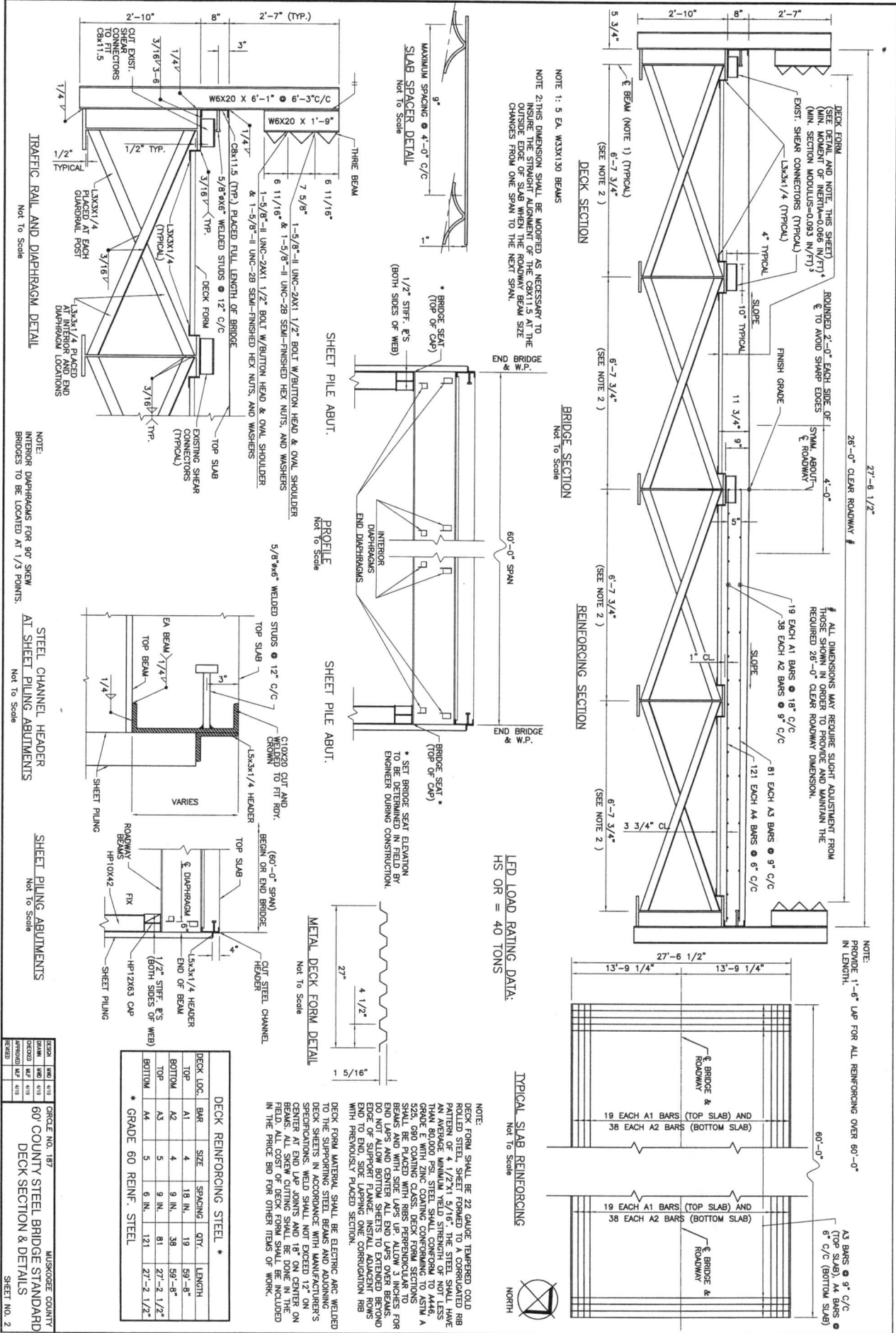
EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2



**Cut/Fill Summary**

| Name     | Cut Factor | Fill Factor | 2d Area          | Cut             | Fill            | Net                    |
|----------|------------|-------------|------------------|-----------------|-----------------|------------------------|
| Surface2 | 1.000      | 1.000       | 32538.93 Sq. Ft. | 1072.63 Cu. Yd. | 2463.66 Cu. Yd. | 1391.03 Cu. Yd. <Fill> |
| Totals   |            |             | 32538.93 Sq. Ft. | 1072.63 Cu. Yd. | 2463.66 Cu. Yd. | 1391.03 Cu. Yd. <Fill> |

| DATE    | BY      | CHKD    | APPV    | CIRCLE NO. | PROJECT              | SHEET NO. |
|---------|---------|---------|---------|------------|----------------------|-----------|
| 10/1/18 | 10/1/18 | 10/1/18 | 10/1/18 | 187        | MUSKOGEE COUNTY      | 4         |
|         |         |         |         |            | CO. BUILT BRIDGE     |           |
|         |         |         |         |            | MAINLINE & SIDE ROAD |           |



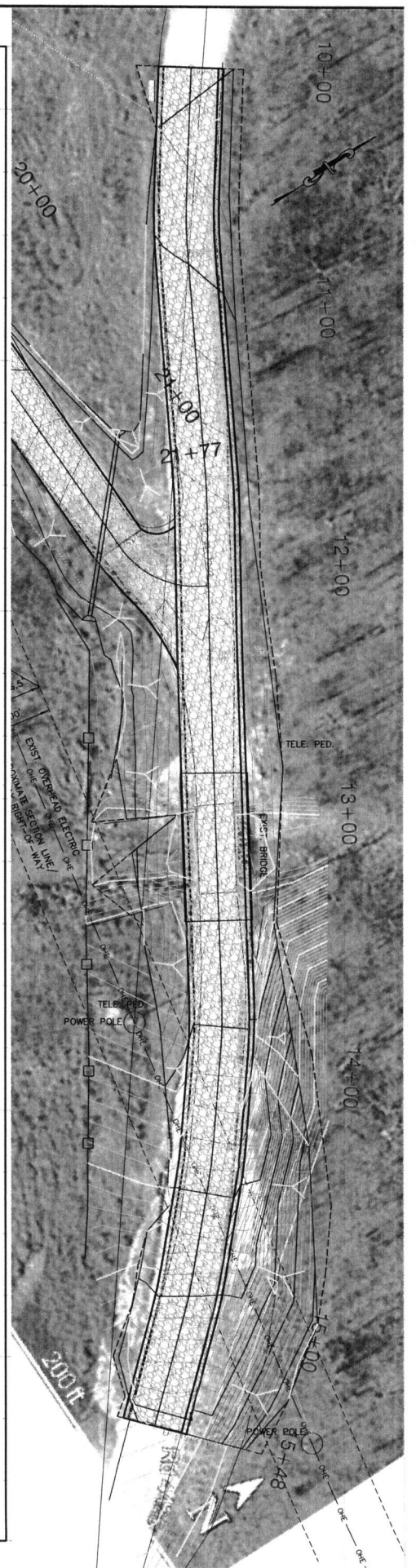
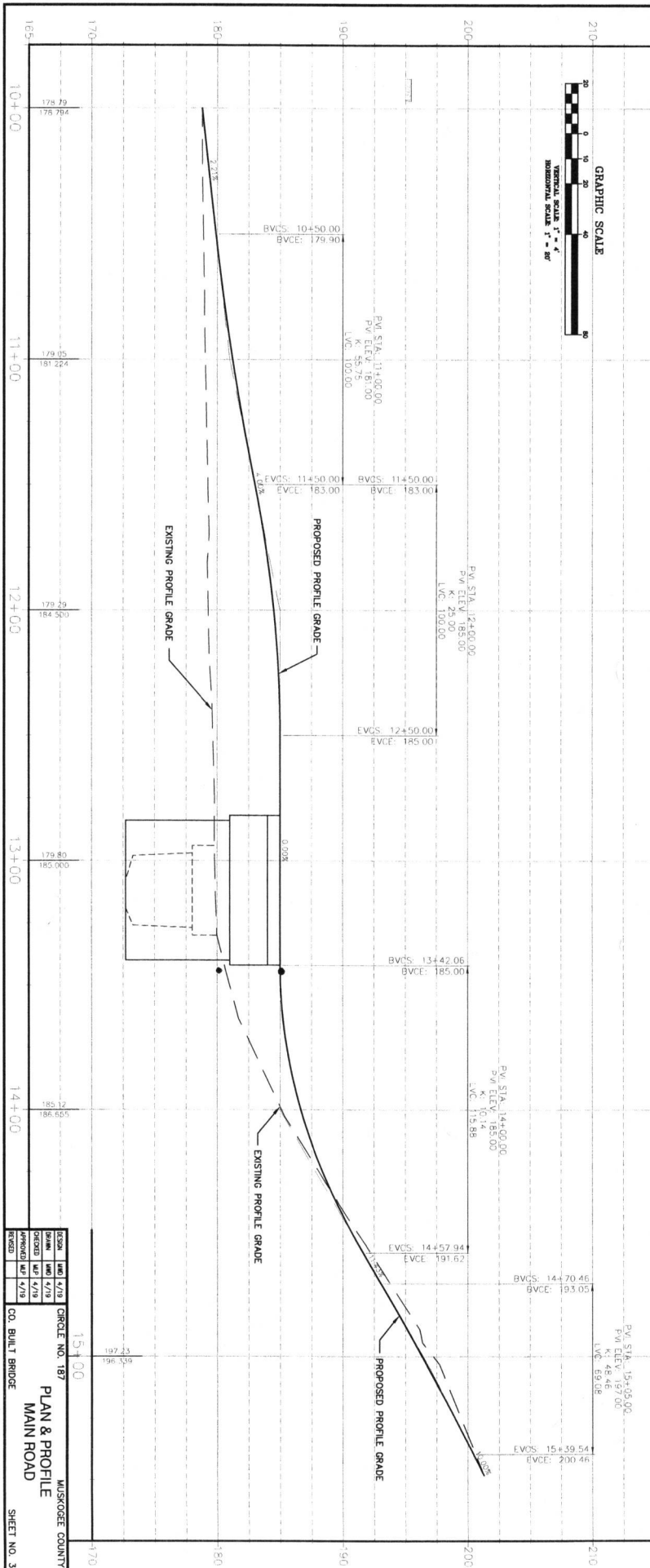
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CIRCLE NO. 187  
 MUSKOGEE COUNTY  
 60' COUNTY STEEL BRIDGE STANDARD  
 DECK SECTION & DETAILS  
 SHEET NO. 2



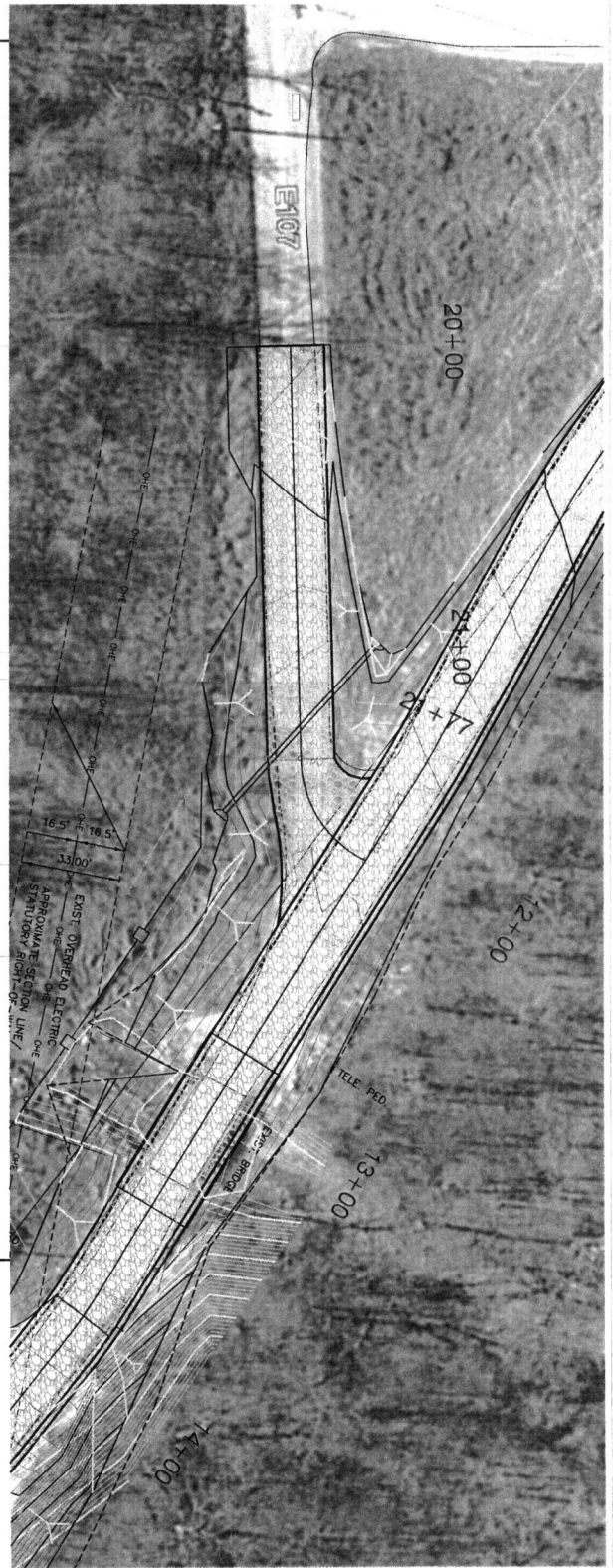
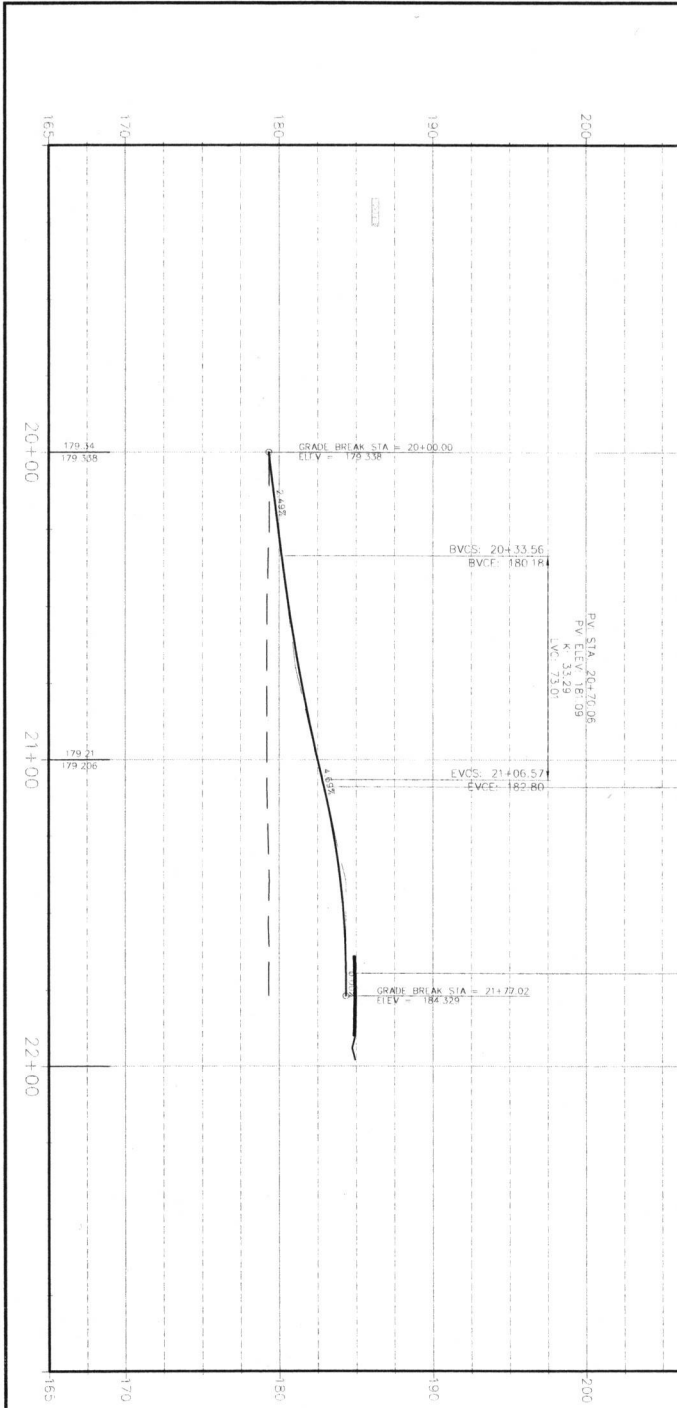




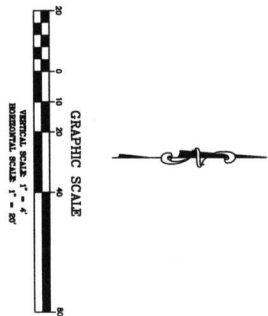


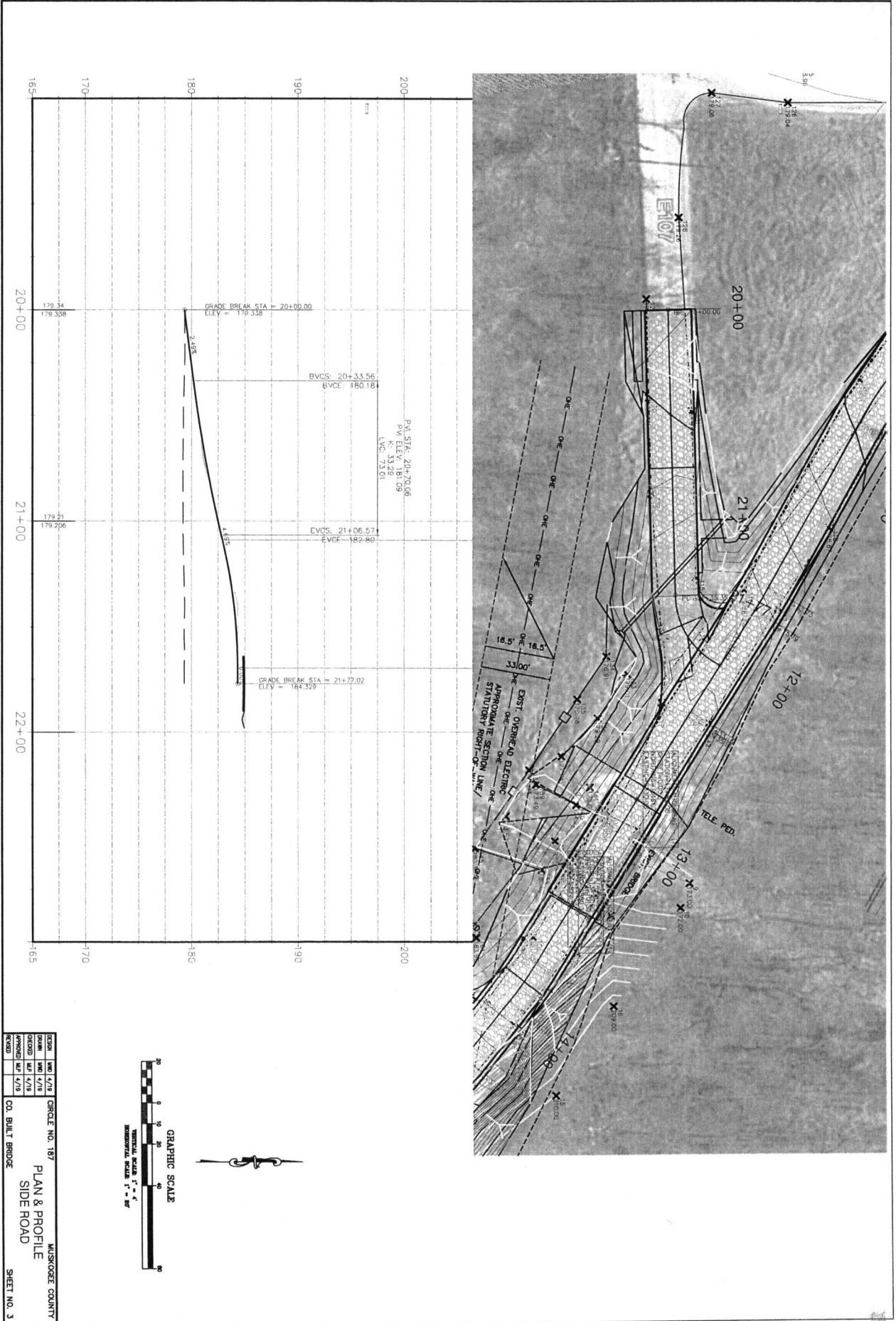
| NO. | DATE | BY  | CHKD. | APP. | REVISION |
|-----|------|-----|-------|------|----------|
| 1   | 4/13 | ... | ...   | ...  | ...      |
| 2   | 4/13 | ... | ...   | ...  | ...      |
| 3   | 4/13 | ... | ...   | ...  | ...      |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
MAIN ROAD  
SHEET NO. 3

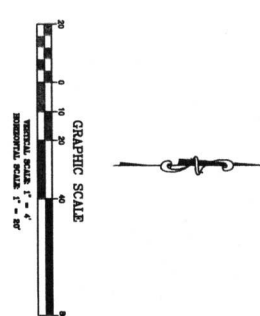


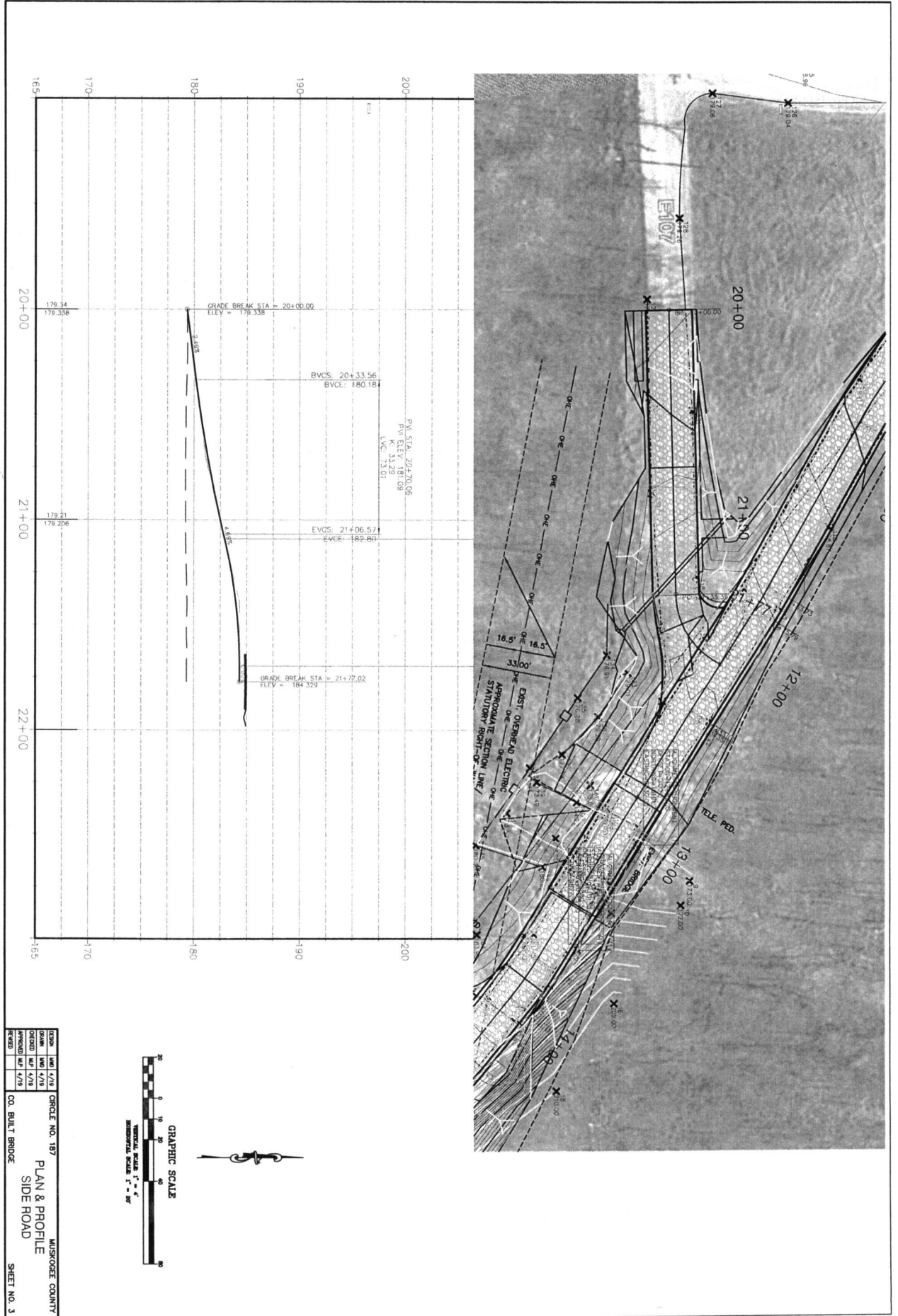
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|------------------|------|----|------|------|----|------|------|----|
| DESIGN           | DATE | BY | CHKD | DATE | BY | CHKD | DATE | BY |
|                  | 4/15 | WJ | 4/15 | 4/15 | WJ | 4/15 | 4/15 | WJ |
| MUSKOGEE COUNTY  |      |    |      |      |    |      |      |    |
| CIRCLE NO. 187   |      |    |      |      |    |      |      |    |
| PLAN & PROFILE   |      |    |      |      |    |      |      |    |
| SIDE ROAD        |      |    |      |      |    |      |      |    |
| CO. BUILT BRIDGE |      |    |      |      |    |      |      |    |
| SHEET NO. 3      |      |    |      |      |    |      |      |    |





|          |      |      |                  |
|----------|------|------|------------------|
| DESIGN   | 1/10 | 1/15 | CIRCLE NO. 187   |
| DRAWN    | 1/10 | 1/15 | MUSKOGEE COUNTY  |
| CHECKED  | 1/10 | 1/15 | PLAN & PROFILE   |
| APPROVED | 1/10 | 1/15 | SIDE ROAD        |
| DATE     | 1/10 | 1/15 | CO. BUILT BRIDGE |
|          |      |      | SHEET NO. 3      |

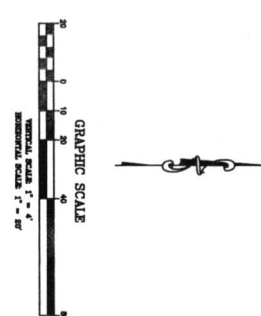


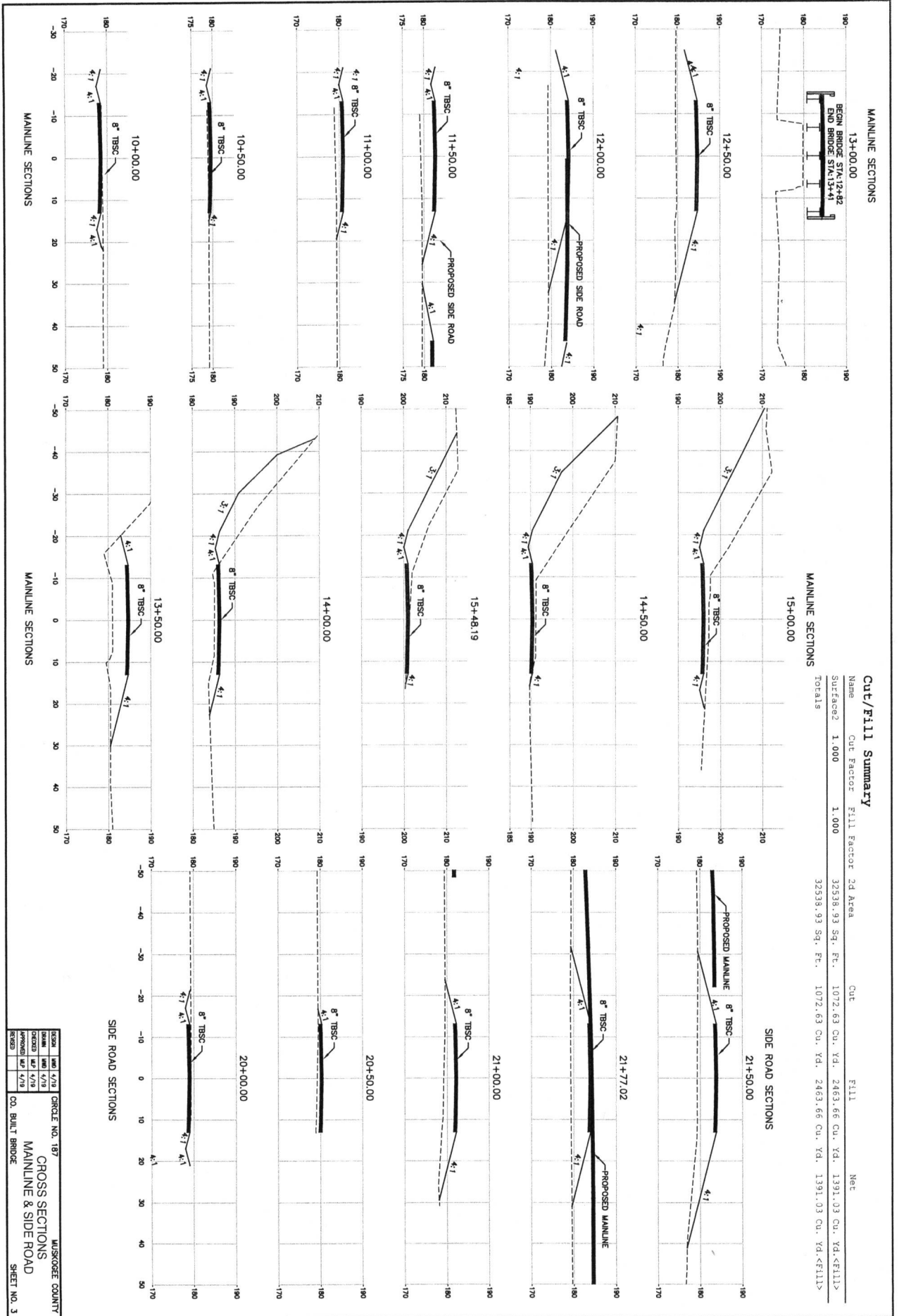


|          |         |    |         |             |                 |
|----------|---------|----|---------|-------------|-----------------|
| DESIGN   | DATE    | BY | SCALE   | PROJECT NO. | COUNTY          |
| DESIGNED | 10/1/18 | MM | 1" = 4' | 187         | MUSKOGEE COUNTY |
| APPROVED | 10/1/18 | MM | 1" = 4' |             |                 |
| REVISION |         |    |         |             |                 |

CO. BUILT BRIDGE

MUSKOGEE COUNTY  
PLAN & PROFILE  
SIDE ROAD  
SHEET NO. 3





**Cut/Fill Summary**

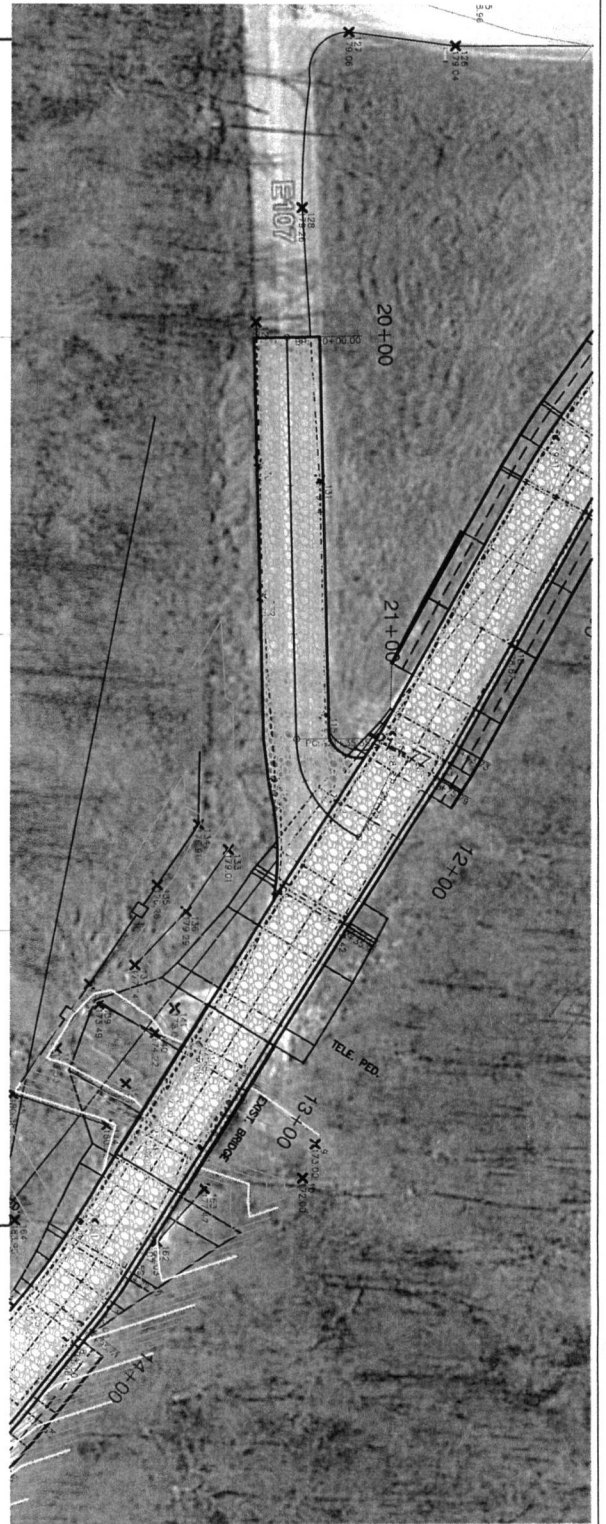
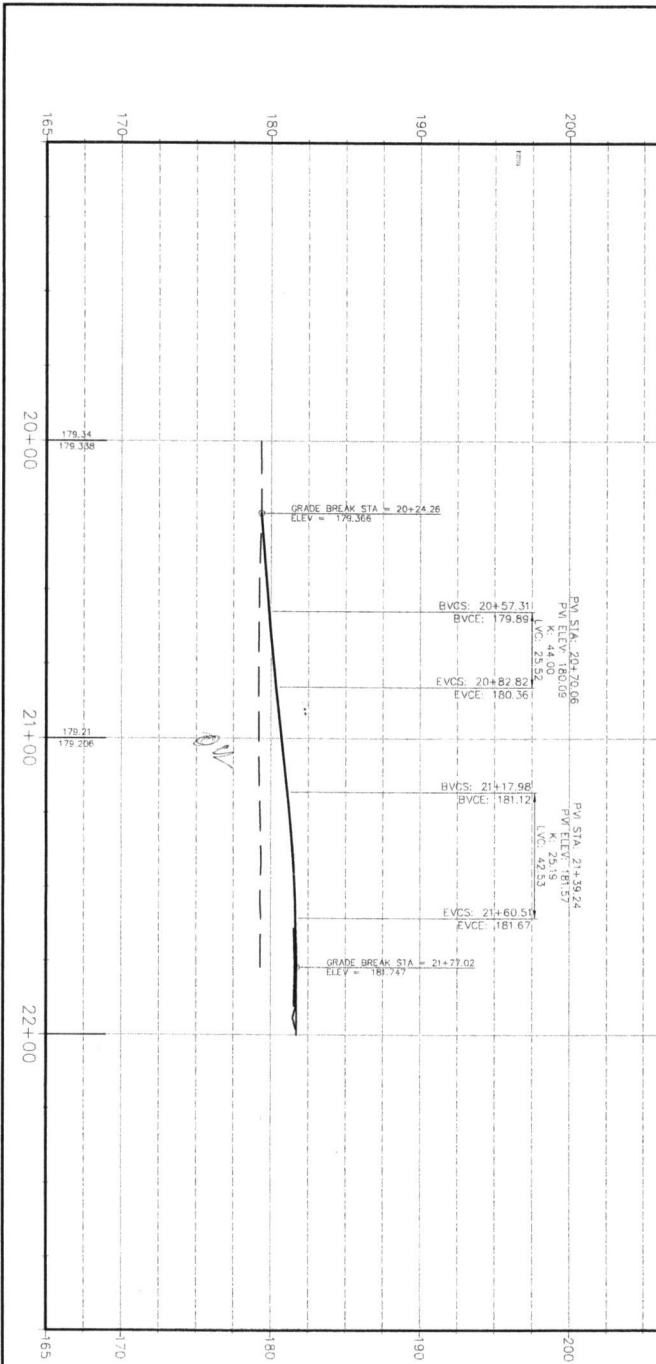
| Name     | Cut Factor | Fill Factor | 2d Area          | Cut             | Fill            | Net                   |
|----------|------------|-------------|------------------|-----------------|-----------------|-----------------------|
| Surface2 | 1.000      | 1.000       | 32538.93 Sq. Ft. | 1072.63 Cu. Yd. | 2463.66 Cu. Yd. | 1391.03 Cu. Yd.<Fill> |
| Totals   |            |             | 32538.93 Sq. Ft. | 1072.63 Cu. Yd. | 2463.66 Cu. Yd. | 1391.03 Cu. Yd.<Fill> |

| DATE     | BY   | APP'D | DATE | BY | APP'D | DATE | BY | APP'D |
|----------|------|-------|------|----|-------|------|----|-------|
| DESIGN   | 1/10 | 4/13  |      |    |       |      |    |       |
| CHECKED  | 1/17 | 4/18  |      |    |       |      |    |       |
| APPROVED | 1/17 | 4/18  |      |    |       |      |    |       |
| PROJECT  |      |       |      |    |       |      |    |       |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
CROSS SECTIONS  
MAINLINE & SIDE ROAD  
SHEET NO. 3

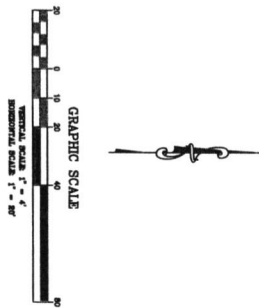


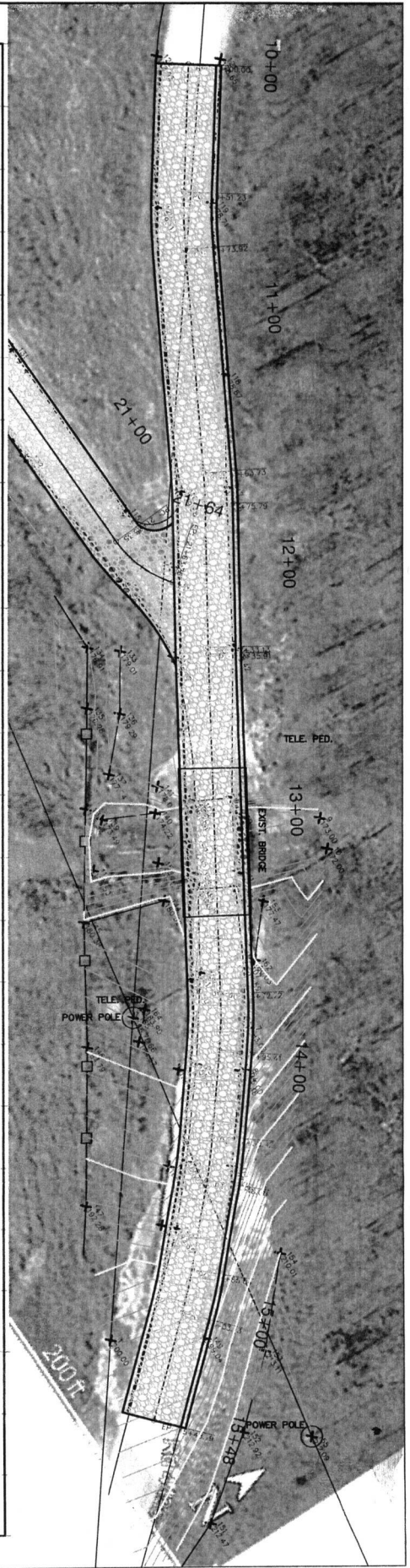
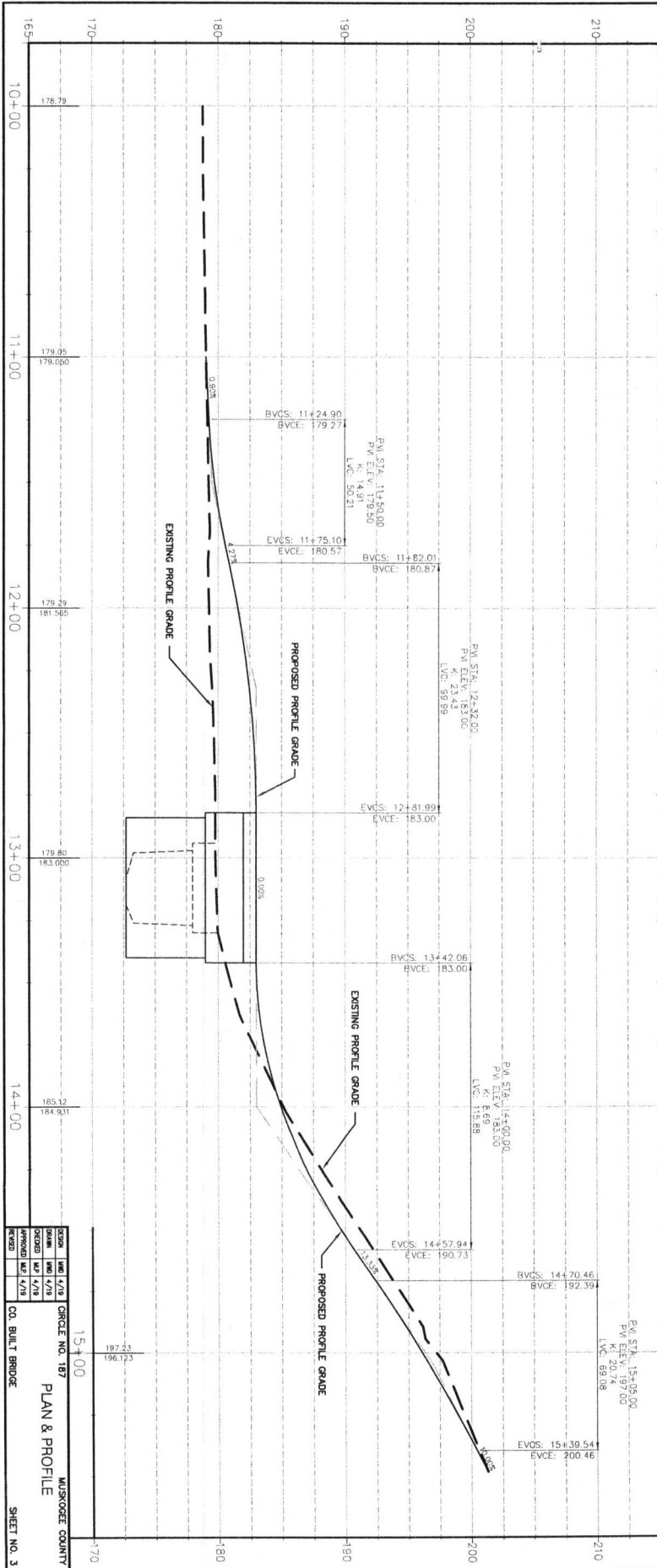
EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2



| DATE | BY | CHKD | APP'D |
|------|----|------|-------|
| 4/18 | WJ | WJ   | WJ    |
| 4/18 | WJ | WJ   | WJ    |
| 4/18 | WJ | WJ   | WJ    |
| 4/18 | WJ | WJ   | WJ    |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
SIDE ROAD  
SHEET NO. 3



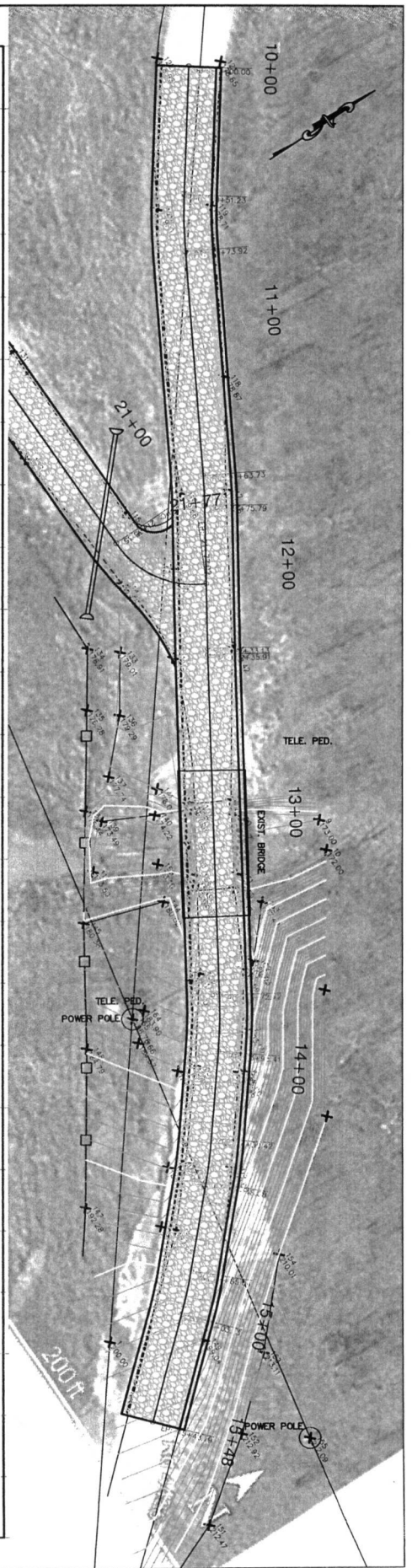
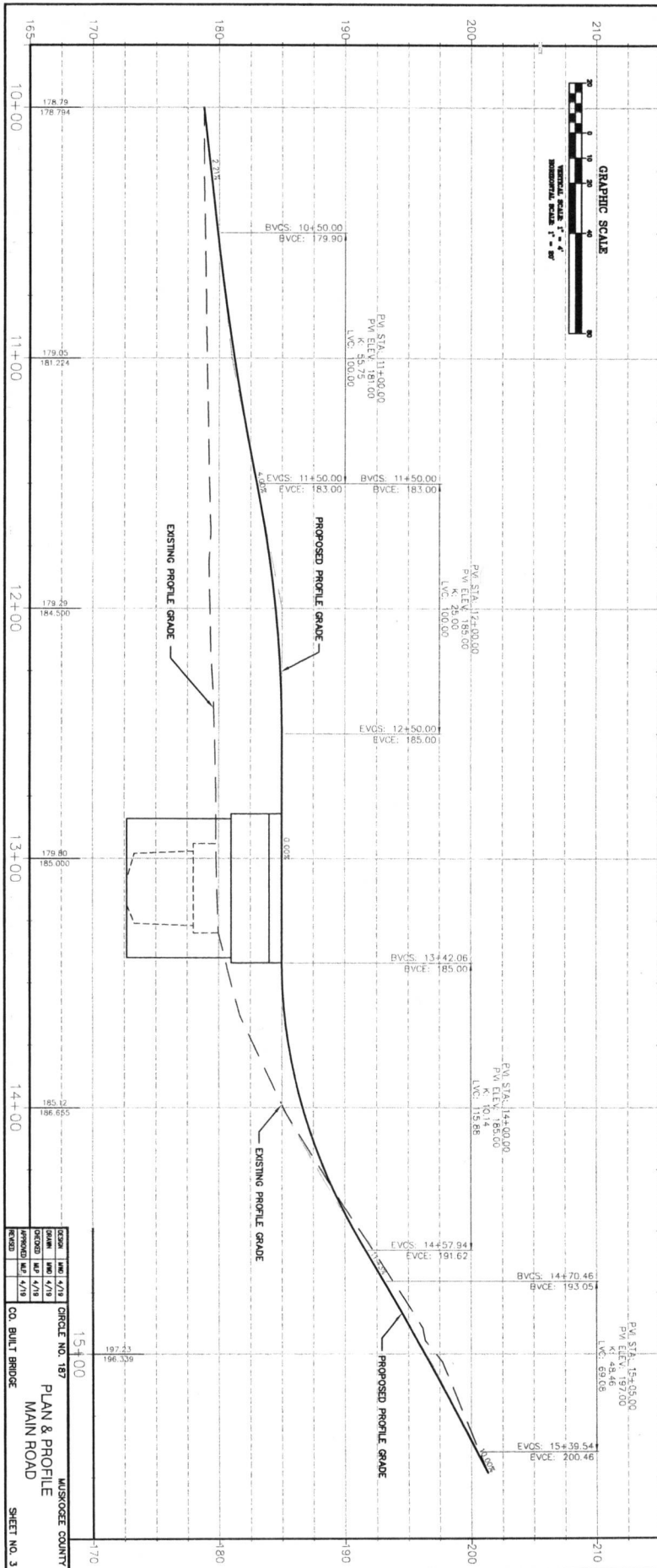


| NO. | DATE | BY  | CHKD | APP'D | CO.              |
|-----|------|-----|------|-------|------------------|
| 1   | 4/18 | JWS | JWS  |       | CO. BUILT BRIDGE |
| 2   | 4/18 | JWS | JWS  |       |                  |
| 3   | 4/18 | JWS | JWS  |       |                  |

MUSKOGEE COUNTY  
SHEET NO. 3



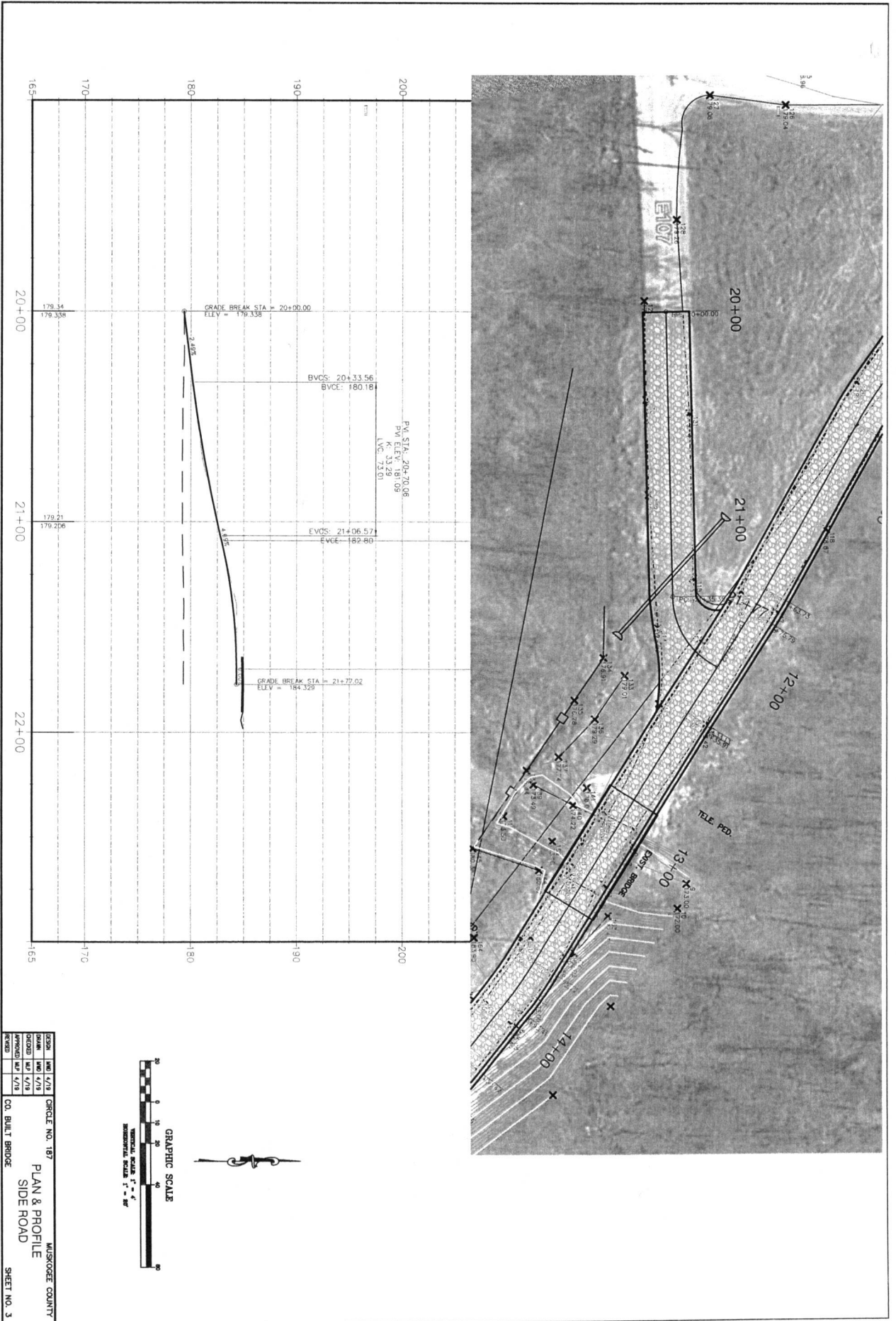
EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2



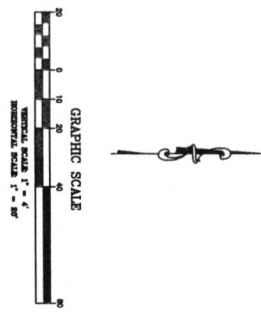
| NO. | DATE | BY  | CHKD. | APP. |
|-----|------|-----|-------|------|
| 1   | 4/13 | ... | ...   | ...  |
| 2   | 4/13 | ... | ...   | ...  |
| 3   | 4/13 | ... | ...   | ...  |
| 4   | 4/13 | ... | ...   | ...  |

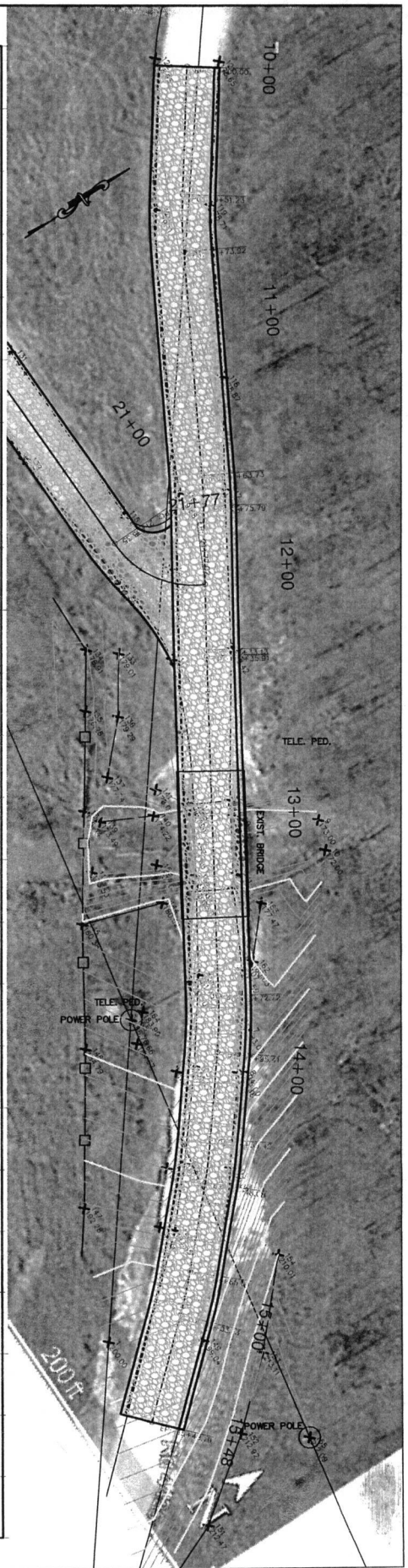
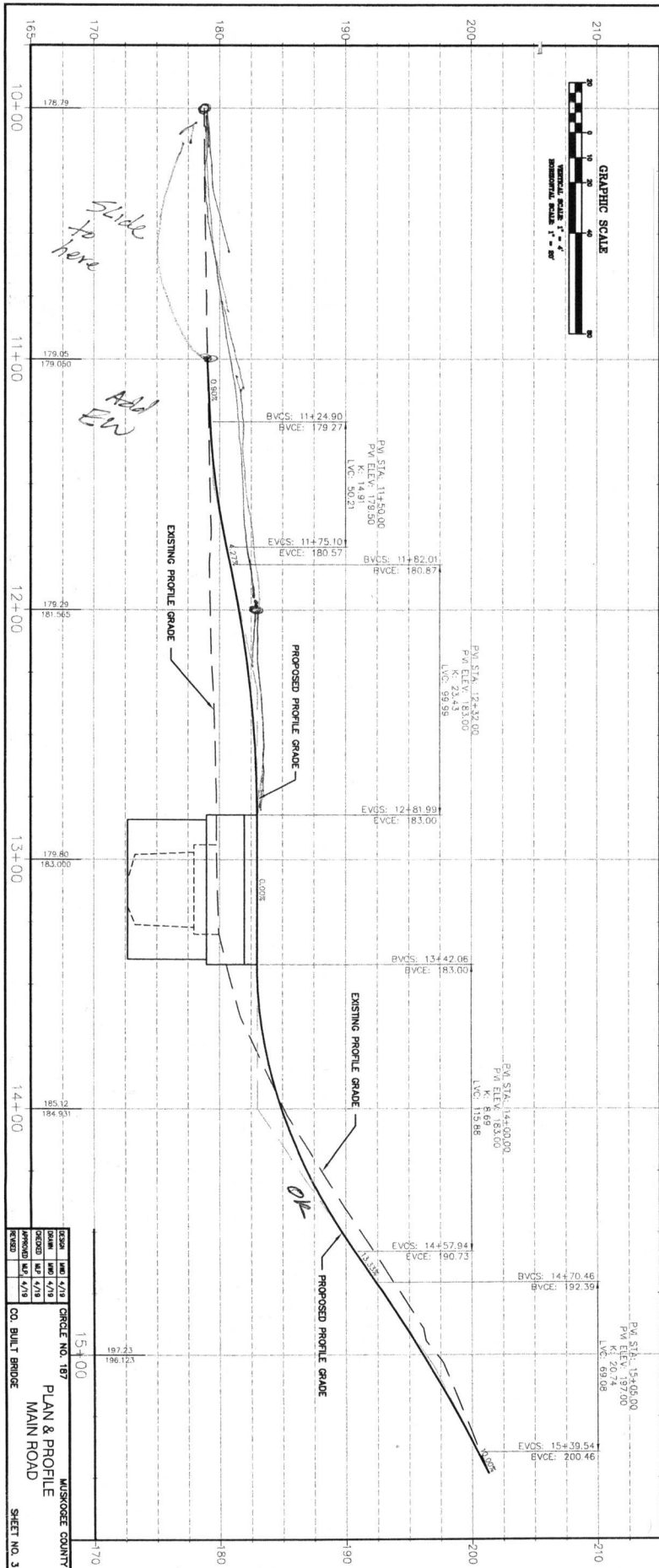
CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
MAIN ROAD  
CO. BUILT BRIDGE  
SHEET NO. 3





|                  |     |      |
|------------------|-----|------|
| DESIGN           | MMB | 4/18 |
| DRAWN            | MMB | 4/18 |
| CHECKED          | MMB | 4/18 |
| APPROVED         | MMB | 4/18 |
| REVISION         |     |      |
| CIRCLE NO. 187   |     |      |
| MUSKOGEE COUNTY  |     |      |
| PLAN & PROFILE   |     |      |
| SIDE ROAD        |     |      |
| CO. BUILT BRIDGE |     |      |
| SHEET NO. 3      |     |      |



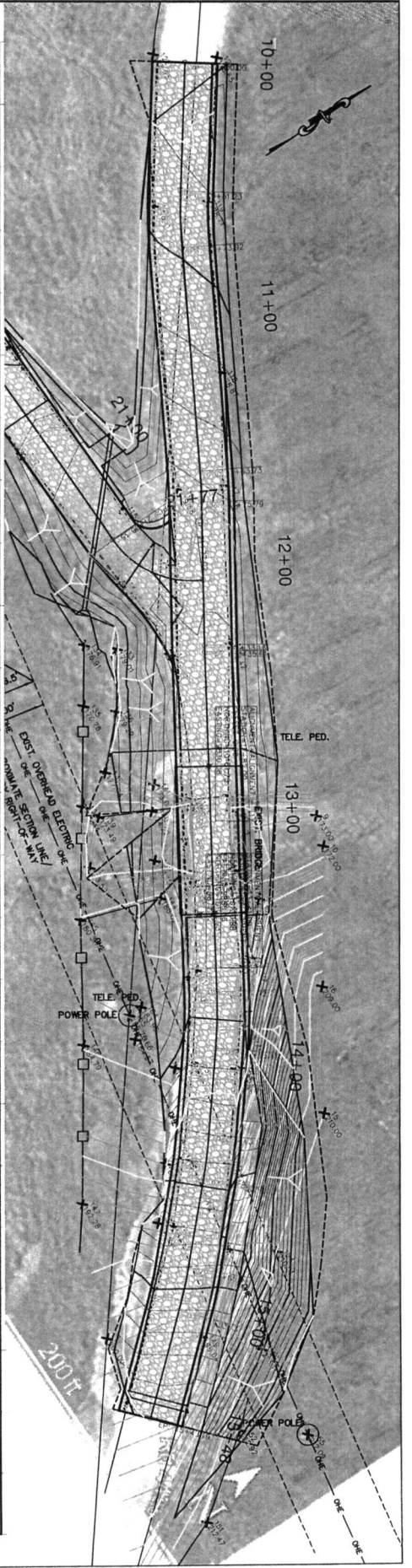
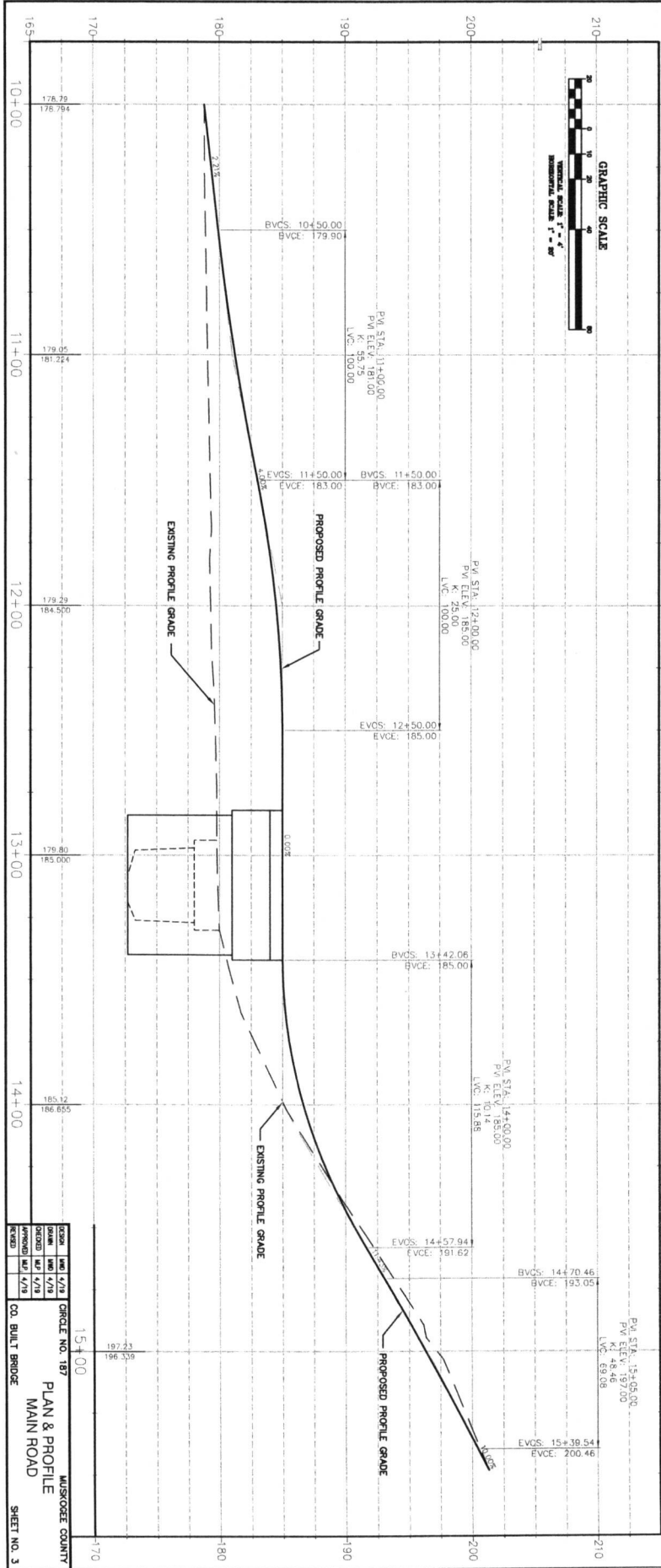


| NO. | DATE | BY  | CHKD. | DESCRIPTION |
|-----|------|-----|-------|-------------|
| 1   | 4/18 | ... | ...   | ...         |
| 2   | 4/18 | ... | ...   | ...         |
| 3   | 4/18 | ... | ...   | ...         |
| 4   | 4/18 | ... | ...   | ...         |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
MAIN ROAD  
SHEET NO. 3

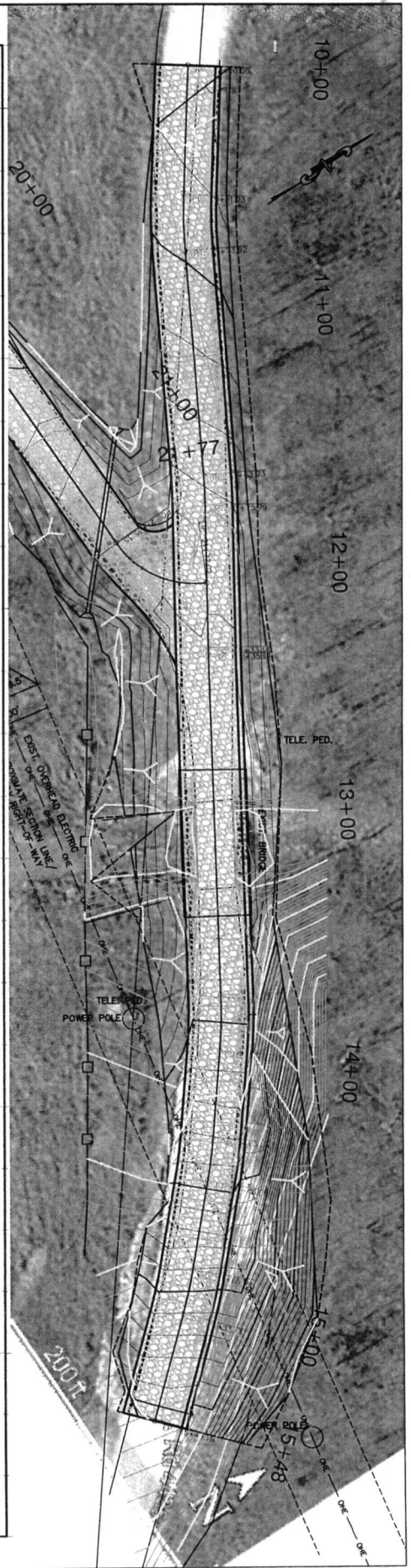
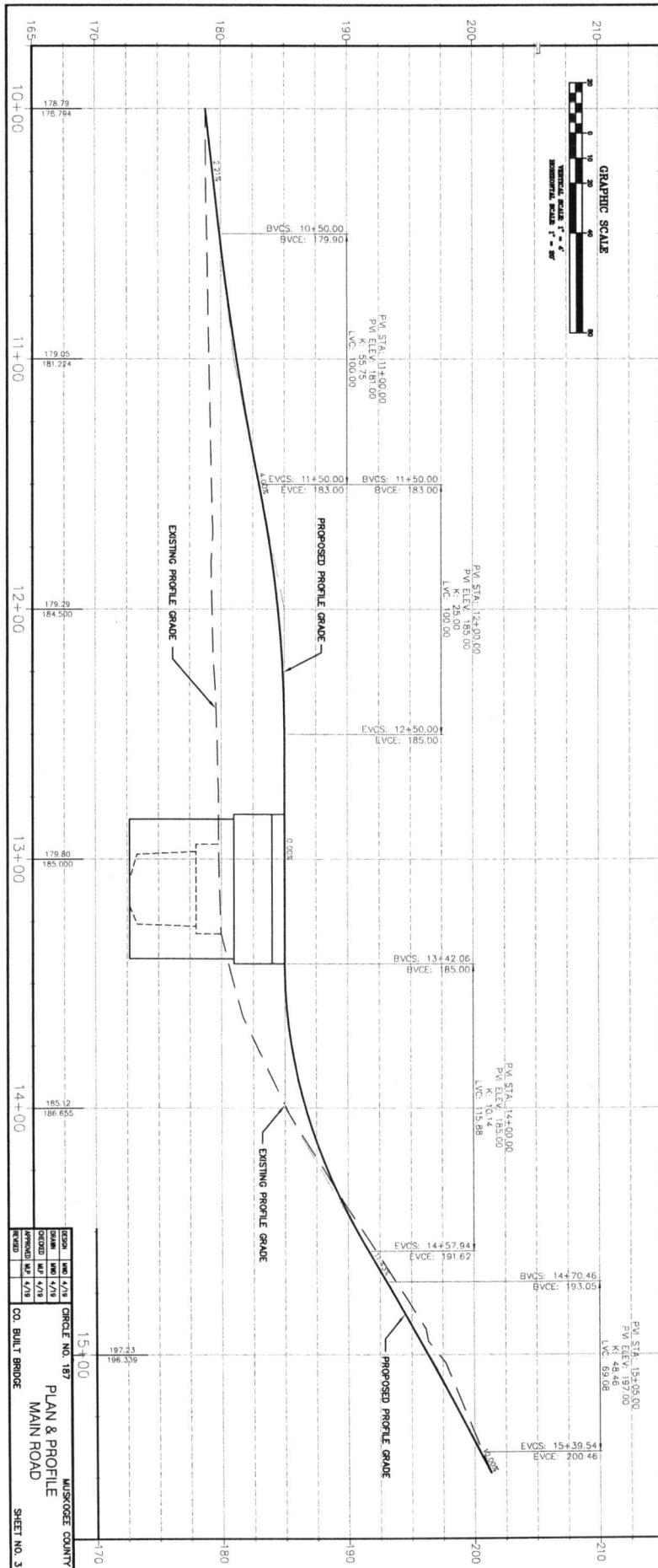


EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2



| REVISION | DATE | BY | CHKD | DESCRIPTION |
|----------|------|----|------|-------------|
|          |      |    |      |             |
|          |      |    |      |             |

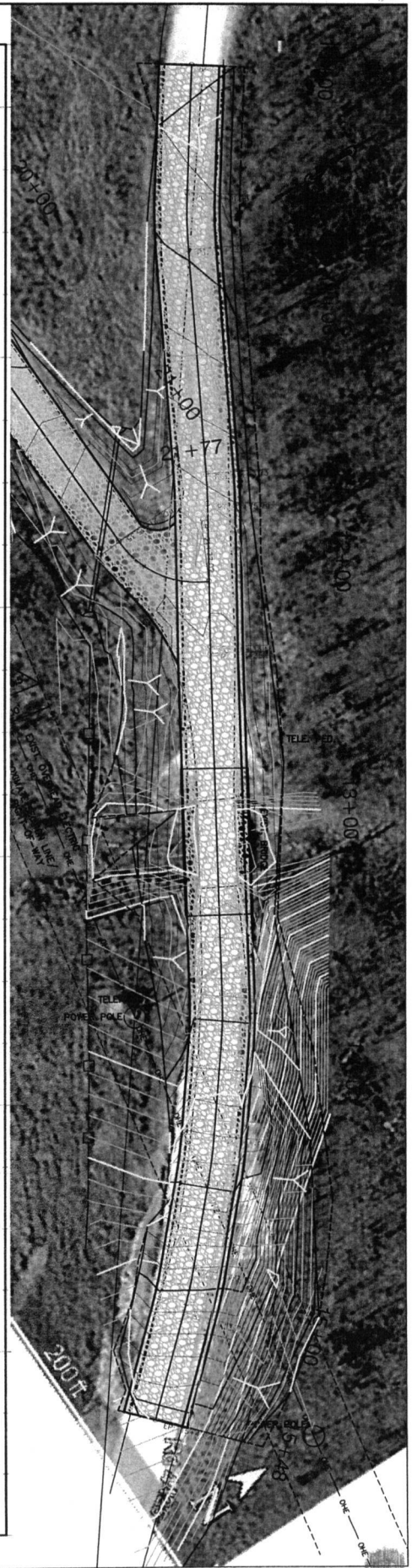
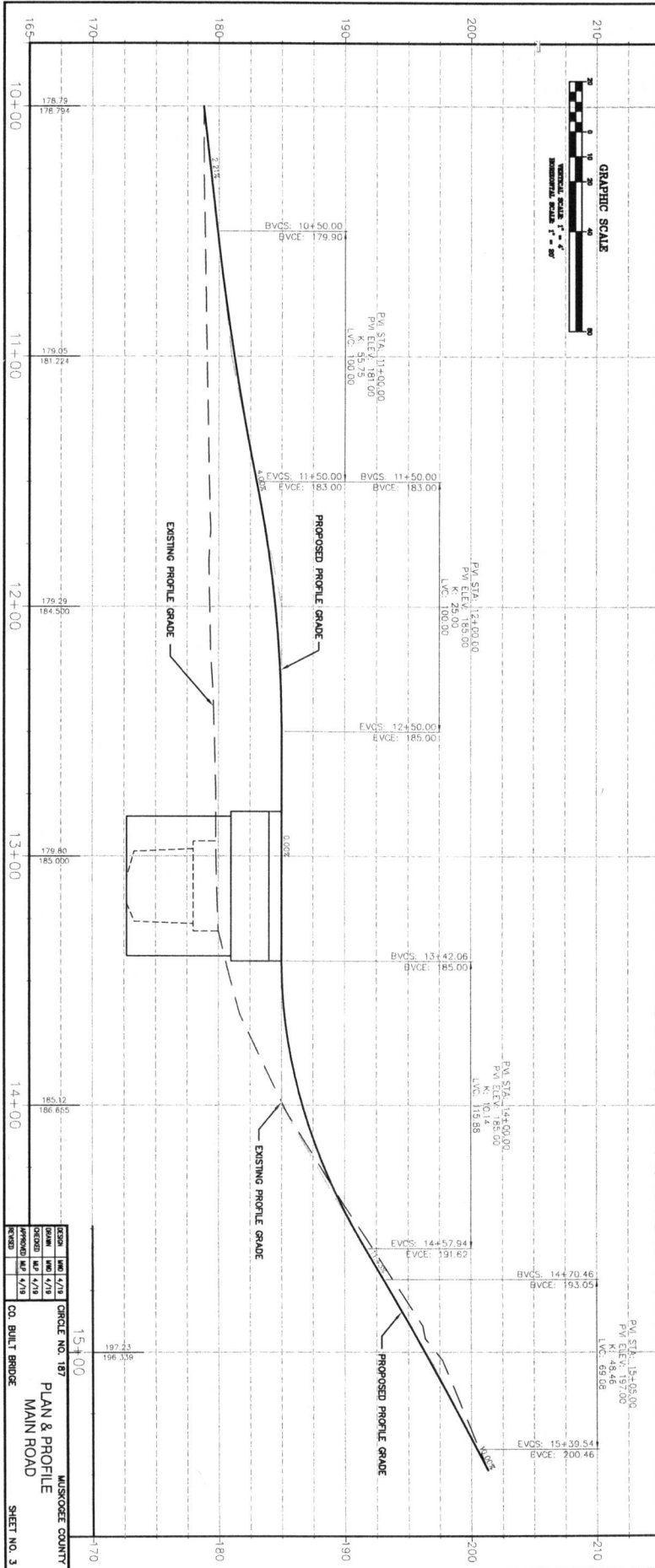
CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
MAIN ROAD  
SHEET NO. 3



|                 |        |        |        |         |
|-----------------|--------|--------|--------|---------|
| DATE            | BY     | CHKD   | APP'D  | REVISED |
| 1/2/17          | 1/2/17 | 1/2/17 | 1/2/17 |         |
| MUSKOGEE COUNTY |        |        |        |         |
| PROJECT NO. 187 |        |        |        |         |
| PLAN & PROFILE  |        |        |        |         |
| MAIN ROAD       |        |        |        |         |
| SHEET NO. 3     |        |        |        |         |

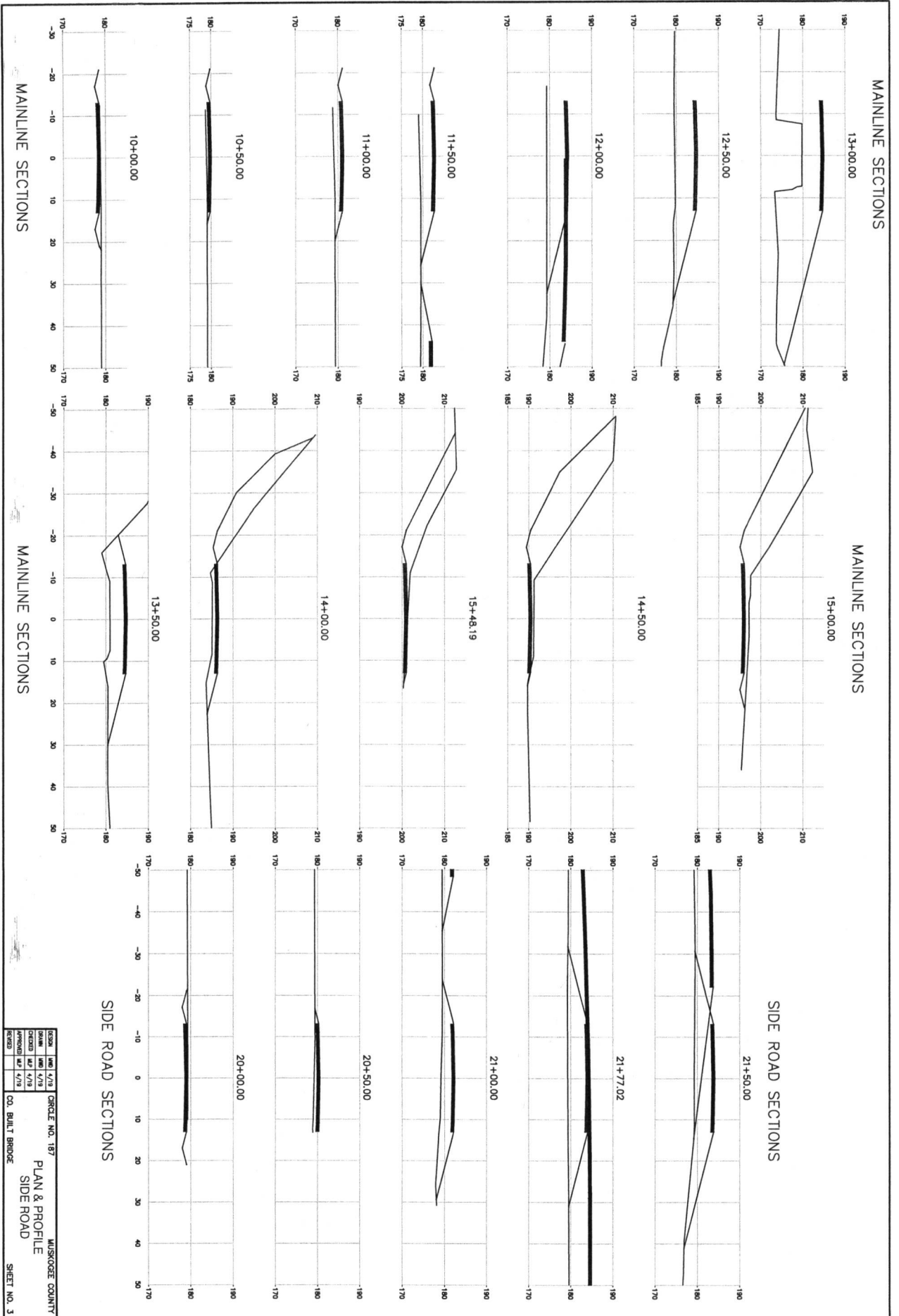


EASTERN OKLAHOMA  
CIRCUIT ENGINEERING  
DISTRICT 2



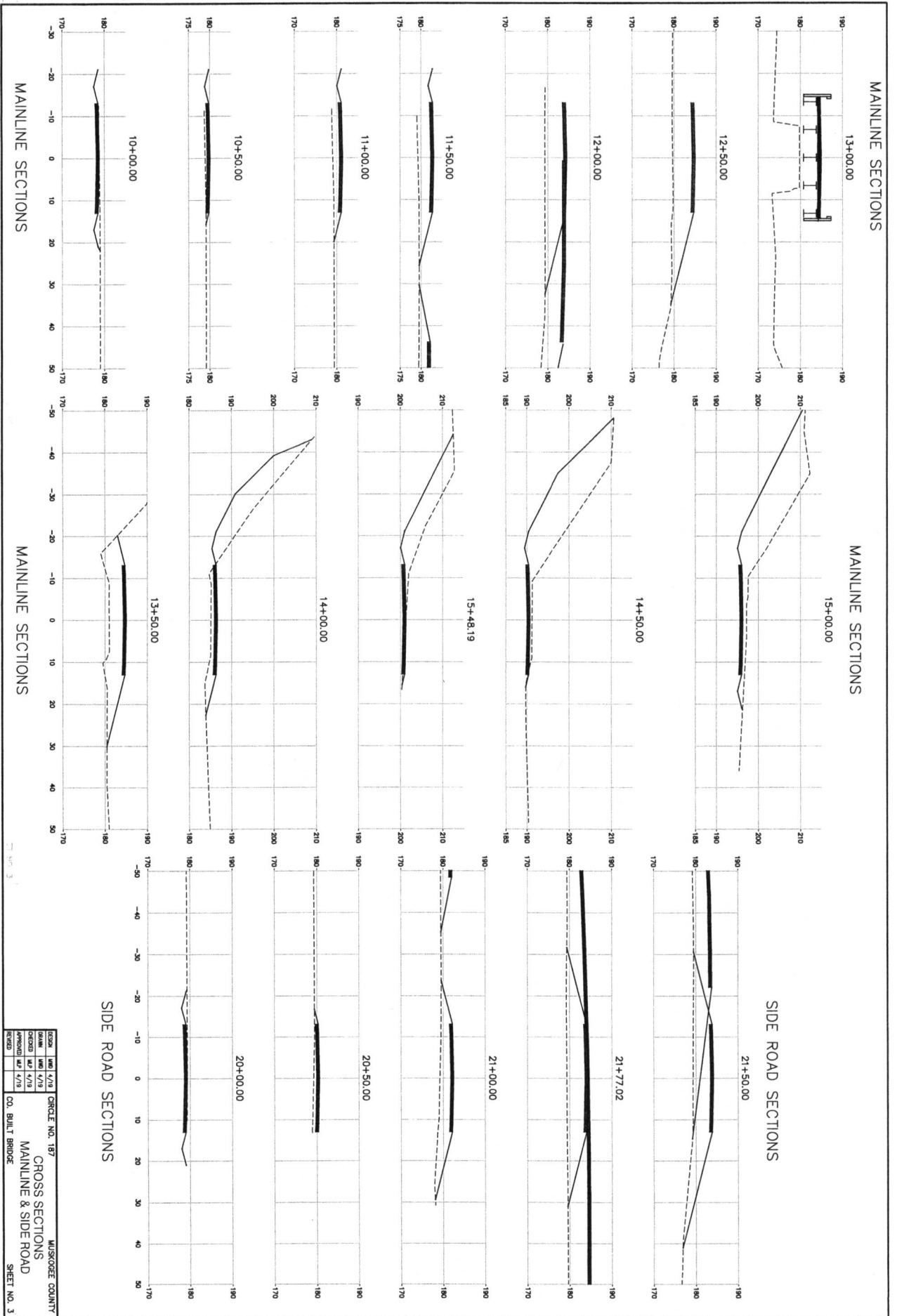
| DESIGN         | DATE | BY | CHKD |
|----------------|------|----|------|
| PLAN & PROFILE | 4/18 | MS | MS   |
| CONCRETE       | 4/18 | MS | MS   |
| HYDROLOGICAL   | 4/18 | MS | MS   |
| REVISION       |      |    |      |

CIRCLE NO. 187  
MUSKOGEE COUNTY  
PLAN & PROFILE  
MAIN ROAD  
SHEET NO. 3



|          |      |    |      |                 |             |
|----------|------|----|------|-----------------|-------------|
| DESIGN   | DATE | BY | DATE | CIRCLE NO.      | 187         |
| CHECKED  | DATE | BY | DATE | MUSKOGEE COUNTY |             |
| APPROVED | DATE | BY | DATE | PLAN & PROFILE  |             |
| REVISION | DATE | BY | DATE | SIDE ROAD       |             |
|          |      |    |      |                 | SHEET NO. 3 |

MUSKOGEE COUNTY  
PLAN & PROFILE  
SIDE ROAD  
CO. BUILT BRIDGE



|          |     |      |                      |                 |
|----------|-----|------|----------------------|-----------------|
| DATE     | 187 | 4/18 | CIRCLE NO. 187       | MUSKOGEE COUNTY |
| DESIGN   | 187 | 4/18 | CROSS SECTIONS       |                 |
| CHECKED  | 187 | 4/18 | MAINLINE & SIDE ROAD |                 |
| APPROVED | 187 | 4/18 |                      |                 |
| REVISION |     |      | CO. BUILT BRIDGE     | SHEET NO. 3     |