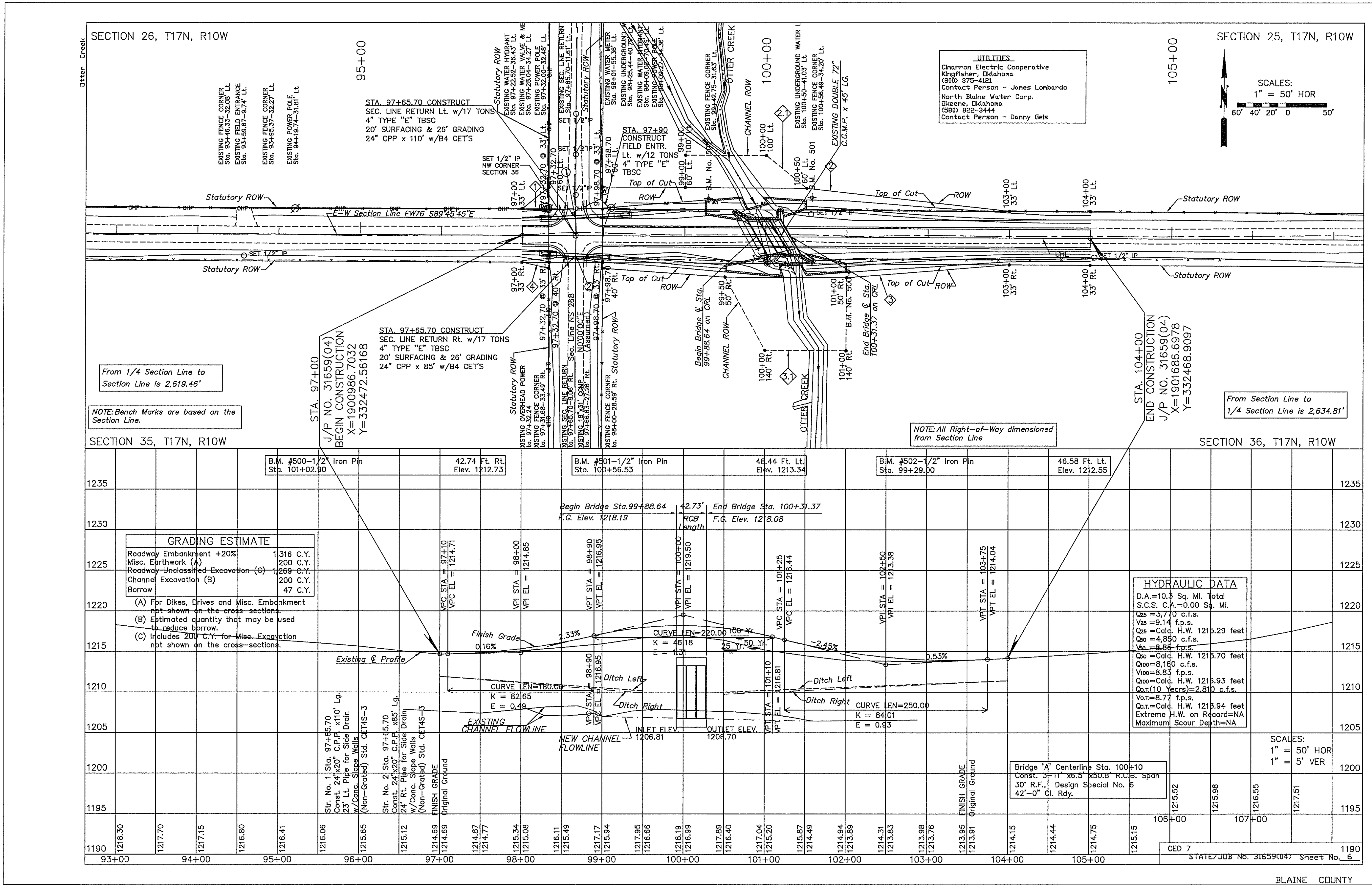
SECTION 26, T17N, R10W
SECTION 25, T17N, R10W
SECTION 35, T17N, R10W
SECTION 36, T17N, R10W
Otter Creek
95+00
100+00
105+00
EXISTING FENCE CORNER Sta. 93+46.33–32.08' Lt.
EXISTING FIELD ENTRANCE Sta. 93+59.67–9.74' Lt.
EXISTING FENCE CORNER Sta. 93+95.37–32.27' Lt.
EXISTING POWER POLE Sta. 94+19.74–31.81' Lt.
STA. 97+65.70 CONSTRUCT
SEC. LINE RETURN Lt. w/17 TONS
4" TYPE "E" TBSC
20' SURFACING & 26' GRADING
24" CPP x 110' w/B4 CET'S
EXISTING WATER HYDRANT Sta. 97+22.52–36.43' Lt.
EXISTING WATER VALVE & ME Sta. 97+28.04–34.27' Lt.
EXISTING POWER POLE Sta. 97+32.00–32.48' Lt.
EXISTING SEC. LINE RETURN Sta. 97+65.70–11.61' Lt.
EXISTING WATER METER Sta. 98+01–55.36' Lt.
EXISTING UNDERGROUND Sta. 98+25.44–40.79' Lt.
EXISTING WATER HYDRANT Sta. 98+09.02–70.49' Lt.
EXISTING POWER POLE Sta. 98+09.27–34.36' Lt.
EXISTING FENCE CORNER Sta. 99+42.75–31.63' Lt.
OTTER CREEK
CHANNEL ROW
EXISTING UNDERGROUND WATER L Sta. 100+50–41.03' Lt.
EXISTING FENCE CORNER Sta. 100+56.49–34.20' Lt.
EXISTING DOUBLE 72" C.G.M.P. x 45' LG.
UTILITIES
Cimarron Electric Cooperative
Kingfisher, Oklahoma
(800) 375-4121
Contact Person - James Lombardo
North Blaine Water Corp.
Okeene, Oklahoma
(580) 822-3444
Contact Person - Danny Geis
SCALES:
1" = 50' HOR
60' 40' 20' 0 50'
SET 1/2" IP
NW CORNER
SECTION 36
STA. 97+90
CONSTRUCT
FIELD ENTR.
Lt. w/12 TONS
4" TYPE "E"
TBSC
Statutory ROW
E-W Section Line EW76 S89°45'45"E
Top of Cut
ROW
SET 1/2" IP
CRL
97+00 33' Lt.
97+32.70 @ 33' Lt.
97+32.70 60' Lt.
97+98.70 @ 33' Lt.
97+98.70 60' Lt.
99+00 100' Lt.
99+00 60' Lt.
B.M. No. 502
100+00 100' Lt.
100+50 60' Lt.
B.M. No. 501
103+00 33' Lt.
104+00 33' Lt.
97+00 33' Rt.
97+32.70 @ 33' Rt.
97+32.70 @ 40' Rt.
Sec. Line NS 268 N0°00'00"E (Assumed)
97+98.70 @ 33' Rt.
97+98.70 40' Rt.
Begin Bridge ℄ Sta. 99+88.64 on CRL
99+50 50' Rt.
100+00 140' Rt.
101+00 50' Rt.
B.M. No. 500
101+00 140' Rt.
End Bridge ℄ Sta. 100+31.37 on CRL
103+00 33' Rt.
104+00 33' Rt.
STA. 97+65.70 CONSTRUCT
SEC. LINE RETURN Rt. w/17 TONS
4" TYPE "E" TBSC
20' SURFACING & 26' GRADING
24" CPP x 85' w/B4 CET'S
EXISTING OVERHEAD POWER Sta. 97+32.24
EXISTING FENCE CORNER Sta. 97+31.68–33.49' Rt.
EXISTING SEC. LINE RETURN Sta. 97+65.70–8.06' Rt.
EXISTING 18"x31' CGMP Sta. 97+66.83–27.26' Rt.
EXISTING FENCE CORNER Sta. 98+00–28.59' Rt.
From 1/4 Section Line to Section Line is 2,619.46'
NOTE: Bench Marks are based on the Section Line.
STA. 97+00
J/P NO. 31659(04)
BEGIN CONSTRUCTION
X=1900986.7032
Y=332472.56168
STA. 104+00
END CONSTRUCTION
J/P NO. 31659(04)
X=1901686.6978
Y=332468.9097
From Section Line to 1/4 Section Line is 2,634.81'
NOTE: All Right-of-Way dimensioned from Section Line
B.M. #500–1/2" Iron Pin Sta. 101+02.90 42.74 Ft. Rt. Elev. 1212.73
B.M. #501–1/2" Iron Pin Sta. 100+56.53 48.44 Ft. Lt. Elev. 1213.34
B.M. #502–1/2" Iron Pin Sta. 99+29.00 46.58 Ft. Lt. Elev. 1212.55
Begin Bridge Sta.99+88.64
F.G. Elev. 1218.19
42.73' RCB Length
End Bridge Sta. 100+31.37
F.G. Elev. 1218.08
GRADING ESTIMATE
Roadway Embankment +20% 1,316 C.Y.
Misc. Earthwork (A) 200 C.Y.
Roadway Unclassified Excavation (C) 1,269 C.Y.
Channel Excavation (B) 200 C.Y.
Borrow 47 C.Y.
(A) For Dikes, Drives and Misc. Embankment not shown on the cross sections.
(B) Estimated quantity that may be used to reduce borrow.
(C) Includes 200 C.Y. for Misc. Excavation not shown on the cross–sections.
VPC STA = 97+10
VPC EL = 1214.71
VPI STA = 98+00
VPI EL = 1214.85
VPT STA = 98+90
VPT EL = 1216.95
VPI STA = 100+00
VPI EL = 1219.50
VPC STA = 101+25
VPC EL = 1216.44
VPI STA = 102+50
VPI EL = 1213.38
VPT STA = 103+75
VPT EL = 1214.04
Finish Grade
0.16%
2.33%
CURVE LEN=220.00
K = 46.18
E = 1.31
100 Yr.
50 Yr.
25 Yr.
-2.45%
0.53%
Existing ℄ Profile
CURVE LEN=180.00
K = 82.65
E = 0.49
VPC STA = 98+90
VPC EL = 1216.95
Ditch Left
Ditch Right
VPT STA = 101+10
VPT EL = 1216.81
CURVE LEN=250.00
K = 84.01
E = 0.93
EXISTING CHANNEL FLOWLINE
NEW CHANNEL FLOWLINE
INLET ELEV. 1206.81
OUTLET ELEV. 1206.70
HYDRAULIC DATA
D.A.=10.3 Sq. Mi. Total
S.C.S. C.A.=0.00 Sq. Mi.
Q25 =3,770 c.f.s.
V25 =9.14 f.p.s.
Q25 =Calc. H.W. 1215.29 feet
Q50 =4,850 c.f.s.
V50 =8.85 f.p.s.
Q50 =Calc. H.W. 1215.70 feet
Q100=8,160 c.f.s.
V100=8.83 f.p.s.
Q100=Calc. H.W. 1216.93 feet
Qo.t.(10 Years)=2,810 c.f.s.
Vo.t.=8.77 f.p.s.
Qo.t.=Calc. H.W. 1213.94 feet
Extreme H.W. on Record=NA
Maximum Scour Depth=NA
Str. No. 1 Sta. 97+65.70 Const. 24"x20" C.P.P. x110' Lg. 23' Lt. Pipe for Side Drain w/Conc. Slope Walls (Non-Grated) Std. CET4S-3
Str. No. 2 Sta. 97+65.70 Const. 24"x20" C.P.P. x85' Lg. 24' Rt. Pipe for Side Drain w/Conc. Slope Walls (Non-Grated) Std. CET4S-3
FINISH GRADE
Original Ground
Bridge 'A' Centerline Sta. 100+10
Const. 3-11' x6.5' x50.8' R.C.B. Span
30° R.F., Design Special No. 6
42'-0" Cl. Rdy.
SCALES:
1" = 50' HOR
1" = 5' VER
1235 1230 1225 1220 1215 1210 1205 1200 1195 1190
1218.30 1217.70 1217.15 1216.80 1216.41 1216.06 1215.65 1215.12
1214.69 1214.69 1214.87 1214.77 1215.34 1215.08 1216.11 1215.49 1217.17 1215.94 1217.95 1216.66 1218.19 1216.99 1217.89 1216.40 1217.04 1215.20 1215.87 1214.49 1214.94 1213.89 1214.31 1213.83 1213.98 1213.76 1213.95 1213.91 1214.15 1214.44 1214.75 1215.15
1215.52 1215.98 1216.55 1217.51
93+00 94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00
CED 7
STATE/JOB No. 31659(04) Sheet No. 6
BLAINE COUNTY