

**UTILITY CONTACTS**

SEE SHEET NO. R005.

CURVE NO. 1  
 P.I. STA. 119+21.79  
 R = 465.000'  
 T = 99.175'  
 Δ = 24°04'45"  
 L = 195.421'  
 C = 193.986'  
 D = 12°19'18"  
 EMAX 8%  
 V = 45 MPH

NOTE: ALL DISTANCES SHOWN TO RIGHTS-OF-WAY, FENCES, UTILITIES AND OTHER EXISTING OBJECTS ARE FROM CENTERLINE OF SURVEY, NS-315 SECTION LINE.

PUMP JACK

STA. 116+50 CONTRACTOR TO MEET AND MATCH EXISTING ROADWAY. SHAPE TO DRAIN STA. 116+25± TO STA. 116+50.

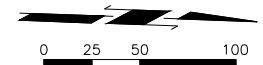
WARNING: OVERHEAD ELECTRIC

WARNING: GAS LINE

CURVE NO. 2  
 P.I. STA. 123+53.95  
 R = 465.000'  
 T = 143.101'  
 Δ = 34°12'39"  
 L = 277.648'  
 C = 273.542'  
 D = 12°19'18"  
 EMAX 8%  
 V = 45 MPH

**SUMMARY OF GRADING QUANTITIES**

EXC.	14,583 C.Y.
EMB.+20%	2,884 C.Y.
EXCESS EXC.	11,699 C.Y.



**STA. 116+50.00  
 BEGIN J/P 28448(04)  
 21.07' RT. CL SURVEY**

BM 205 STA. 123+65.09 167.58' LT.  
 SET RR SPIKE E FACE 36" DBL TRUNK  
 ELEV. 837.69

**HYDRAULIC DATA**

TOTAL DRAINAGE AREA = 81.16 SQ. MI.  
 CONTROLLED DRAINAGE AREA = 20.71 SQ. MI.  
 EFFECTIVE DRAINAGE AREA = 60.45 SQ. MI.

Q2 = 2,330 CFS	Q25 = 10,800 CFS
V2 = 2.73 FPS	V25 = 6.95 FPS
CHW = 828.45 FT	CHW = 836.69 FT
Q5 = 4,730 CFS	Q50 = 14,000 CFS
V5 = 4.18 FPS	V50 = 8.25 FPS
CHW = 831.22 FT	CHW = 836.71 FT
Q10 = 7,020 CFS	Q100 = 17,100 CFS
V10 = 5.34 FPS	V100 = 9.58 FPS
CHW = 833.43 FT	CHW = 837.54 FT

Qot = Q16

