DIVISION STATE J/P PROJ NO FISCAL SHEET TOTAL OKLA 27092(04) 51 143 BORING NO. B3-1 BORING NO. B1-1 (STA 860+02.49', 10.96' RT OF BRIDGE CL) (STA 860+18.34,17.72' LT OF BRIDGE CL) 700-700 SURFACE ELEVATION 699.40 SURFACE ELEVATION 697.9 STIFF BROWN SANDY LEAN CLAY W/SAND 693.7 -SPT;N=7;MC=17.3% 692.10 - SPT;N=10;MC=22.7% USCS: ML; #40 = 100%; #200=64.5% LL=42; PI=25; #200=66.4% 690.9 690 LOOSE LIGHT BROWN SANDY SILT 690 688.7-SPT;N=5;MC=18.7% USCS: ML; #40 = 99%; #200=54.2% 687.9 -GROUND WATER LEVEL -11.5' 687.10 -SPT;N=5;MC=28.8% MEDIUM STIFF TO SOFT, GRAY BROWN SANDY LEAN CLAY LL=40; PI=22; #200=62.8% 684.4 - SPT @15' = 22/6", 50/4.5 "; N>60 683.9 MC= 8.5 %; #200 = 76.6% -682.10 - SPT;N=3;MC=22.9% 683.4 -TCP@16'=50/1.375"; 50/0.75" #200=58.6% 680--681.4 -GROUND WATER LEVEL HARD BROWN SANDY CLAY 680 678.8 - 678.9 -SPT C@19' =50/2.75" = 16.5' 678.4 -TCP@21'= 50/0.75"; 50/0.5" - 677.9 -TCP C@20' =50/1.5" , 50/ 1" 672.9 -TCP@25' =50/1"; 50/0.625" MODERATELY HARD TO HARD GRAY SHALE | 673.4 -TCP@26'= 50/0.75"; 50/0.375" 670-670 MODERATELY HARD TO HARD, **GRAY SHALE** 667.9 -TCP@30' =50/0.375"; 50/0.125" 668.10 -TCP@31'= 50/0.75"; 50/0.125" 662.9 -TCP@35' =50/0.5"; 50/0.5" 663.4-TCP@36'= 50/0.25"; 50/0.25" 660-661.4 + 661.4 -TCP@38'= 50/0.25"; 50/0.125" 660 657.9 -TCP@40' =50/0.25"; 50/0.063" HARD GRAY SANDSTONE 655.9 + 655.9 -TCP@42' =50/0.125"; 50/0.125" BOTTOM OF BORING 654.38 \(\preceq\$ 651.9 -TCP@45'= 50/0.125"; 50/0.063" HARD GRAY SANDSTONE 650-650-648.87 - 648.9 - TCP@49' = 50/0.25"; 50/0.125" BOTTOM OF BORING SITE GEOLOGY NOTES: THE SUBJECT PROJECT IS LOCATED AND BOUNDED BY PENNSYLVANIAN PERIOD, COFFEYVILLE FORMATION (IPCC), CHEVKERBOARD FORMATION (IPCC), SEMINOLE FORMATION (IPSL), AND LENAPAH FORMATION (IPLB) WITH ALLUVIUM (QAL). GEO-TECHNICAL REPORT GROUNDWATER LEVELS WERE OBTAINED DURING THE DRILLING OPERATIONS AND MAY FLUCTUATE THROUGHT THE YEAR. BORING DATA IS PROVIDED BY GW². 640 ALL GEOTECHNICAL INFORMATION CONTAINED ON THIS SHEET IS COVERED BY THE ENGINEERING SEAL AFFIXED TO AN ORIGINAL GEOTECHNICAL ENGINEERING REPORT THAT HAS BEEN STAMPED AND SEALED BY A PROFESSIONAL ENGINEER THESE FORMATIONS ARE DESCRIBED AS FOLLOWS:

IPCC - COFFEYVILLE FORMATION: SHALE AND THIN-BEDDED SANDSTONE.

IPCC - CHECKERBOARD FORMATION: LIMESTONE AND SOME SHALE.

IPSL - SEMINOLE FORMATION: SHALE, SANDSTONE, AND THIN COAL BEDS. 640 LICENSED IN OKLAHOMA TO OBTAIN A COPY OF THE COMPLETE REPORT, CONTACT THE ODOT OFFICE ENGINEER AT (405) 522-0972. THE CONTRACTOR SHOULD BE FULLY AWARE OF THE SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY ADDITIONAL Design | GW2 6/16 US 169 OVER OPOSSUM CREEK NOWATA COUNTY IPLB - LENAPAH FORMATION: LIMESTONE AND SHALE. BRIDGE A Drawn RAH 6/16 QAL - ALLUVIUM: GRAVEL, SAND SILT, AND CLAY.
IN OUR FIELD EXPLORATION WE ENCOUNTERED ALLUVIUM OVERBURDEN SOILS OVER GEOTECHNICAL INFORMATION WHICH MAY BE DESIRED IS THE RESPONSIBILITY FOUNDATION REPORT Checked MKR 6/16 OF THE CONTRACTOR. SHALE, SANDSTONE AND LIMESTONE FORMATIONS. Approved SAK 6/16 (SHEET 1 OF 2) Squad **BENHAM** Job Piece No. 27092(04) Sheet No. 51