| NOBLE  ENGINEERING CONSULTANTS  Client: Clay County Highway Dept.  Driller: Noble Engineering Consultants Location: Structure #3123 Stanford |             |  |  | BORING No. B-2                                 |   |  | water level reading  |                                       |         |      |          |
|--|-------------|--|--|--|---|--|--|---------------------------------------|---------|------|----------|
|  |             |  | County: Clay, IL<br>Weather: overcast<br>Date Start: 3-08-11<br>Date Finished: 3-09-11 |  |   | Sheet No. 1 of 2<br>Temperature:low 50's |  | 1st encounter: 9' water level reading |         |      |          |
|  |             |  |  |  |   |  |  |                                       |         |      |          |
|  |             |  |  |  |   | Driller: Eric Seals                      |  | īll:                                  |         |      |          |
|  |             |  |  |  |   | Depth                                    |  | Sample<br>Depth                       | N-Value | Blow | Recovery |
| 1  |             |  |  |  |   |  |  |                                       |         | -2   |          |
| 2  | SS-1        | 1.0'-2.5'                                    | 9  | 2-4-5  | 30  | 1.25                                     | 0.0'-1.5' silt, clay, sand, etc POSSIBLE FILL                                    | 23.4                                  | CL      | -3   |          |
| 3  |             |  |  |  |   |  |  |                                       |         | -4   |          |
| 4  | SS-2        | 3,5'-5.0'                                    | 4  | 2-2-2  | 30  | 0.5                                      | 1.5'-6.0' SILTY CLAY, trace to some sand, trace gravel, medium, brown            | 18.6                                  | CL      | -5   |          |
| 5  |             |  |  |  |   |  |  |                                       |         | -6   |          |
| 6  | SS-3        | 6.0'-7.5'                                    | 9  | 2-4-5  | 40  | -  |  | 20.3                                  | SM      | -7   |          |
| 7  |             |  |  |  |   |  |  |                                       |         | -8   |          |
| В  |             |  |  |  |   |  |  |                                       |         | -9   |          |
| 9  | S5-4        | 8.5'-10.0'                                   | 5  | 1-2-3  | 50  | 1,0                                      | 6.0'-9.0' SILTY FINE SAND, trace gravel, loose, wet, brown                       | 33.1                                  | СТ      | -10  |          |
| 10   |             |  |  |  |   |  |  |                                       |         | -11  |          |
| 11   |             |  |  | <u> </u>                                       |   |  |  |                                       |         | -12  |          |
| 12   |             |  |  | *  |   |  |  |                                       |         | -13  |          |
| 13   |             |  | ·  |  |   |  |  |                                       |         | -14  |          |
| 14   | SS-5        | 13.5'-15.0'                                  | 45   | 8-21-23  | 100   | 4.5+                                     | 9.0'-14.0' SILTY CLAY, trace to some sand,<br>trace to some gravel, stiff, brown | 11.4                                  | СН      | -15  |          |
| 15   |             |  |  |  |   |  | mottled gray   |                                       | 1       | -16  |          |
| 16   |             |  |  |  |   |  |  |                                       |         | -17  |          |
| 17   |             |  |  |  |   |  |  |                                       |         | -18  |          |
| 18   |             |  | ·  |  |   |  |  |                                       |         | -19  |          |
| 19   | 55-6        | 18.5'-20.0'                                  | 27   | 7-11-16  | 100   | 2.5                                      | 14.0'-49.0' CLAY, trace to some sand, trace to some gravel, hard to medium,      | 15.7                                  | СН      | -20  |          |
| 20   |             |  |  |  |   |  | gray   |                                       |         | -21  |          |
| 21   |             |  |  |  |   |  |  |                                       |         | -22  |          |
| 22   |             |  |  |  |   |  |  |                                       |         | -23  |          |
| 23   |             |  | ·  |  |   |  |  |                                       |         | -24  |          |
| 24   | 55-7        | 23.5'-25.0'                                  | 29   | 7-11-18  | 100   | 3.0                                      | ,  | 14.5                                  | СН      | -25  |          |
| 25   |             |  | _  |  |   |  |  |                                       |         | -26  |          |
| 26   |             | <u>                                     </u> | <u></u>  |  |   | -  |  |                                       | ļ       | -27  |          |
| 27   |             |  |  | <u> </u>                                       | <u> </u>  | -  |  | <u> </u>                              | -       | -28  |          |
| 28   |             | T  | T  | <b></b>  | ļ   |  |  | ļ                                     |         | -29  |          |
| 29   |             |  |  | <b></b>  | <del> </del>  | -  |  |                                       | ļ       | -30  |          |
| 30   | 55-8        | 28,5'-30.0'                                  | 12   | 4-5-7  | 100   | 1.5                                      |  | 20.7                                  | СН      | -31  |          |
|  |             | ISA (2-1/4" id)                              |  | comments                                       | nents * Qp test is an estimate of the unconfined compressive strength performed |  |  | <u> </u>                              | ļ       | ļ    |          |
| Depth: 0' to 49.2'   |             |  |  | by a compact calibrated spring loaded cylinder |   |  |  | ļ                                     | -       |      |          |
| Drill Ri   | g: Mobile B | 47   |  |  | ** ground surface elevation at boring location is estimated and is not surveyed |  |  |                                       |         | -    |          |
| Sampling: split-spoon (SS)   |             |  |  | I  |   |  | 1  | 1                                     |         |      |          |

| N   | OB.           | LE              |   |   |                 |   | BORING No. B-2  | water level reading |                   |              |  |  |
|---|---------------|-----------------|---|---|-----------------|---|---|---------------------|-------------------|--------------|--|--|
| Client: Clay County Highway Dept. Driller: Noble Engineering Consultants Location: Structure #3123 Stanford |               |                 | SULTANTS  | County: Clay, IL.   |                 |   | Sheet No. 2 of 2  |                     | 1st encounter: 9' |              |  |  |
|   |               |                 | Weather: Overcast   |   |                 | Temperature:low 50's Surface Elevation: Bridge Deck Driller: Eric Seals |   | water level reading |                   |              |  |  |
|   |               |                 |   |   |                 |   |   | pletion             | Dry cave          |              |  |  |
|   |               |                 |   |   |                 |   |   | fill:               | Soil Cuttin       |              |  |  |
| Depth:  | Sample<br>No. | Sample<br>Depth | N-Value   | Blow<br>Count   | Recovery<br>(%) | Qp<br>(tsf)*  | Soil Description  | w%                  | USC               | Elev.**      |  |  |
| 31  | 110.          | Depta           |   | Coont   | (70)            | (151)*  | Jon Description   |                     | Class.            | -32          |  |  |
| 32  |               |                 |   |   |                 |   |   |                     |                   | -33          |  |  |
| 33  |               |                 |   |   |                 | -   |   |                     |                   | -34          |  |  |
| 34  | SS-9          | 33.5′-35.0′     | 8   | 3-4-4   | 100             | 0.75  | 14.0'-49.0' CLAY, trace to some sand, trace to some gravel, hard to medium, | 24.3                | СН                | -35          |  |  |
| 35  |               |                 |   |   |                 |   | gray  |                     |                   | -36          |  |  |
| 36  |               |                 |   |   |                 |   |   |                     |                   | -37          |  |  |
| 37  |               |                 |   |   |                 |   |   |                     |                   | -38          |  |  |
| 38  |               |                 | r   |   |                 |   |   |                     |                   | -39          |  |  |
| 39  | 5S-10         | 38.5'-40.0'     | 20 ·  | 5-9-11  | 100             | 1.25  |   | 25.1                | СН                | -40          |  |  |
| 40  |               | Т               | r   |   |                 |   |   |                     |                   | -41          |  |  |
| 41  |               | L               |   |   |                 |   |   |                     |                   | -42          |  |  |
| 42  |               |                 |   |   |                 |   |   |                     |                   | -43          |  |  |
| 43  |               |                 |   |   |                 | <u> </u>  |   | L                   |                   | -44          |  |  |
| 44  | SS-11         | 43.5'-45.0'     | 20  | 8-9-11  | 100             | -   |   | 22.9                | СН                | -45          |  |  |
| 45  |               |                 |   |   |                 |   |   |                     |                   | -46          |  |  |
| 46  |               | ~               |   |   |                 |   |   |                     |                   | -47          |  |  |
| 47  |               |                 |   |   |                 |   | 1   |                     |                   | -48          |  |  |
| 48  |               | 1               |   |   |                 |   |   |                     |                   | -49          |  |  |
| 49  | SS-12         | 48.5'-50.0'     | 118+  | 18-100/2"   | 100             | -   | 49.0'-49.2' HIGHLY WEATHERED SHALE  | 12.5                |                   | -50          |  |  |
| 50  |               |                 |   |   |                 |   |   |                     |                   | -51          |  |  |
|   |               | L               |   |   |                 |   | EOB 49.2'   |                     |                   |              |  |  |
|   |               | di (            | terrengin in disentin di benesara samaken nagara nyapanya menderana |   |                 | <del> </del>  |   | ļ                   |                   |              |  |  |
|   |               |                 |   |   |                 | <del>                                     </del>                        |   |                     |                   |              |  |  |
|   |               |                 |   |   |                 |   |   |                     |                   |              |  |  |
|   |               | I               | r   |   |                 |   |   |                     | -                 |              |  |  |
|   | ļ             | L               | <u> </u>  |   |                 | <del> </del>  |   |                     |                   | <del> </del> |  |  |
|   |               |                 |   |   |                 | -   |   |                     |                   |              |  |  |
|   |               |                 |   |   |                 |   |   |                     |                   |              |  |  |
|   |               |                 | 1,  |   |                 |   |   |                     |                   |              |  |  |
| Drilling  | Method: H     | SA (2-1/4" id)  |   | comments  | * Op test is    | an estimate   | of the unconfined compressive strength performed                            |                     |                   |              |  |  |
| Depth: 0' to 49.2' Drill Rig: Mobile B-47   |               |                 |   | by a compact calibrated spring loaded cylinder  ** ground surface elevation at boring location is estimated and is not surveyed |                 |   | l   |                     | <b> </b>          |              |  |  |
|   |               |                 |   |   |                 |   | İ   |                     | l                 |              |  |  |
| Samplin   | g: split-spo  | on (SS)         |   |   | T               |   |   |                     |                   |              |  |  |
|   | T             | r – – –         |   |   | <del> </del>    |   |   |                     |                   | <del> </del> |  |  |

BORING 2

| F  | LE NAME = 110175-sht-bridge.dgn    | USER NAME =          | DESIGNED - J.W.F. | REVISED - | OTATE OF HUMOIO                | BORINGS STRUCTURE NO. 013-3238 SHEET NO. 11 OF 11 SHEETS |  | SECTION          | COUNTY             | TOTAL SHEET<br>SHEETS NO. |
|----|------------------------------------|----------------------|-------------------|-----------|--------------------------------|--|--|------------------|--------------------|---------------------------|
|    | HAMPTON, LENZINI AND RENWICK, INC. |                      | CHECKED - S.W.M.  | REVISED - | STATE OF ILLINOIS              |  |  | 07-11130-00-BR   | CLAY               | 29 29                     |
| 1  | SPRINGFIELD, ILLINOIS 62703        | PLOT SCALE =         | DRAWN - D.T.M.    | REVISED - | CLAY COUNTY HIGHWAY DEPARTMENT |  |  | RD ROAD DISTRICT | CONTRACT NO. 95667 |                           |
| J. | LS / PE / SE CORP. 184.000959      | PLOT DATE = 3/7/2012 | CHECKED - S.W.M.  | REVISED ~ |                                |  |  | ILLINOIS FED. A  | AID PROJECT BROY   | ROJECT BROS-0025(070)     |