ROADWAY GEOTECHNICAL REPORT

FAP 67 (IL 97)
Section S(X) & W(X,TS)
Sangamon County

D-96-501-95
Contract 92621

IL 97 Expressway
0.1 Miles West of IL 4 in Springfield to Covered Bridge Road

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Supersedes October 1999 Report

Date: 06/13/2023

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Attachments: See Table of Contents
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This Report has been prepared to provide information and recommendations to the Designer. The specific design recommendations included in this Report may not be reflected in the final plans or special provisions. Revisions may be made after Report submittal. This Report has been prepared based on March 12, 2021 Preliminary Plans. Contact the Geotechnical Engineer if there are changes to vertical alignment, horizontal alignment, cross section, or location and type of minor structures.

The Geotechnical Data section of this Report has been prepared to provide information to Contractors and Field Inspection Personnel. The subsurface investigation has been carried out in a manner consistent with reasonable engineering judgment. However, because variations in subsurface conditions may exist between borings, there is a possibility that differing subsurface conditions may be encountered during construction. Contact the Geotechnical Engineer if there are questions about the data or if differing conditions are encountered during construction.

Table of Contents

1.0 Project Location and Description

1.1 General Description

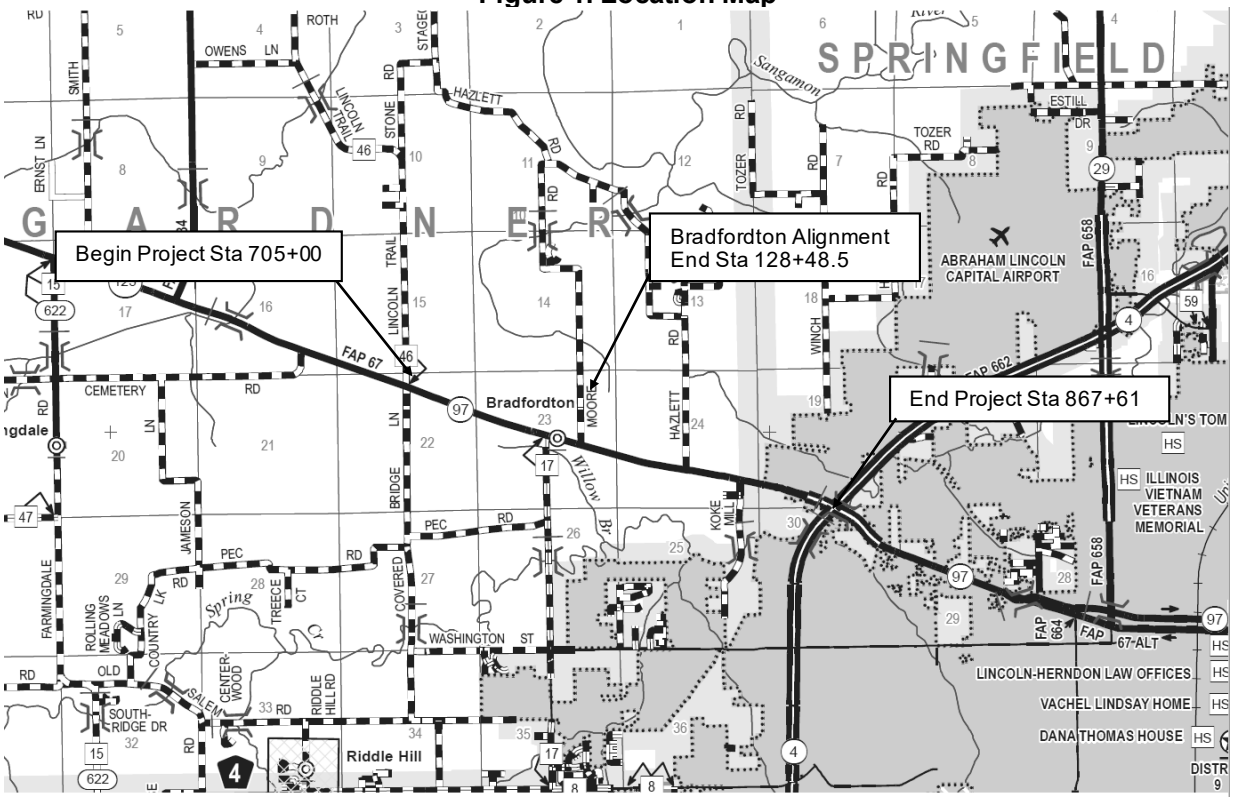
This report presents the geotechnical data, analysis, and recommendations for the proposed reconstruction of IL 97 between Winch Road and Old Covered Bridge Lane/ County Highway 46. This report supersedes a Roadway Geotechnical Report, completed in October of 1999. The proposed alignment has been shifted in-between the two reports. This report is based on preliminary plans developed by Quigg Engineering, Inc. in March of 2021. The proposed work includes the construction of a new 4-lane divided highway. The proposed work includes the extension of Bradfordton Road north to Moore Road.

The proposed alignment is slightly north of the existing alignment to bypass Bradfordton. Generally speaking, the new roadway will be constructed on shallow fills, less than 6 feet in height, except near Station 720+00 in which a creek is to be filled in and East of Station 835+00, where the alignment transitions to a cut. The Sangamon Valley Trail overpass bridge will be replaced with a longer bridge to accommodate the wider alignment. The overall project length is 3.08 miles along IL 97.

1.2 Project Location

The project is located in north-central Sangamon County, on the westside of Springfield. More specifically, the southwest quarter of Section 19, Township 16 North, Range 5 West, the middle third of Section 24, Township 16 North, Range 6 West, the upper third of Section 23, Township 16 North , Range 6 West, and the northwest quarter of Section 22, Township 16 North, Range 6 West. See Location Map below for more detail.

Figure 1: Location Map



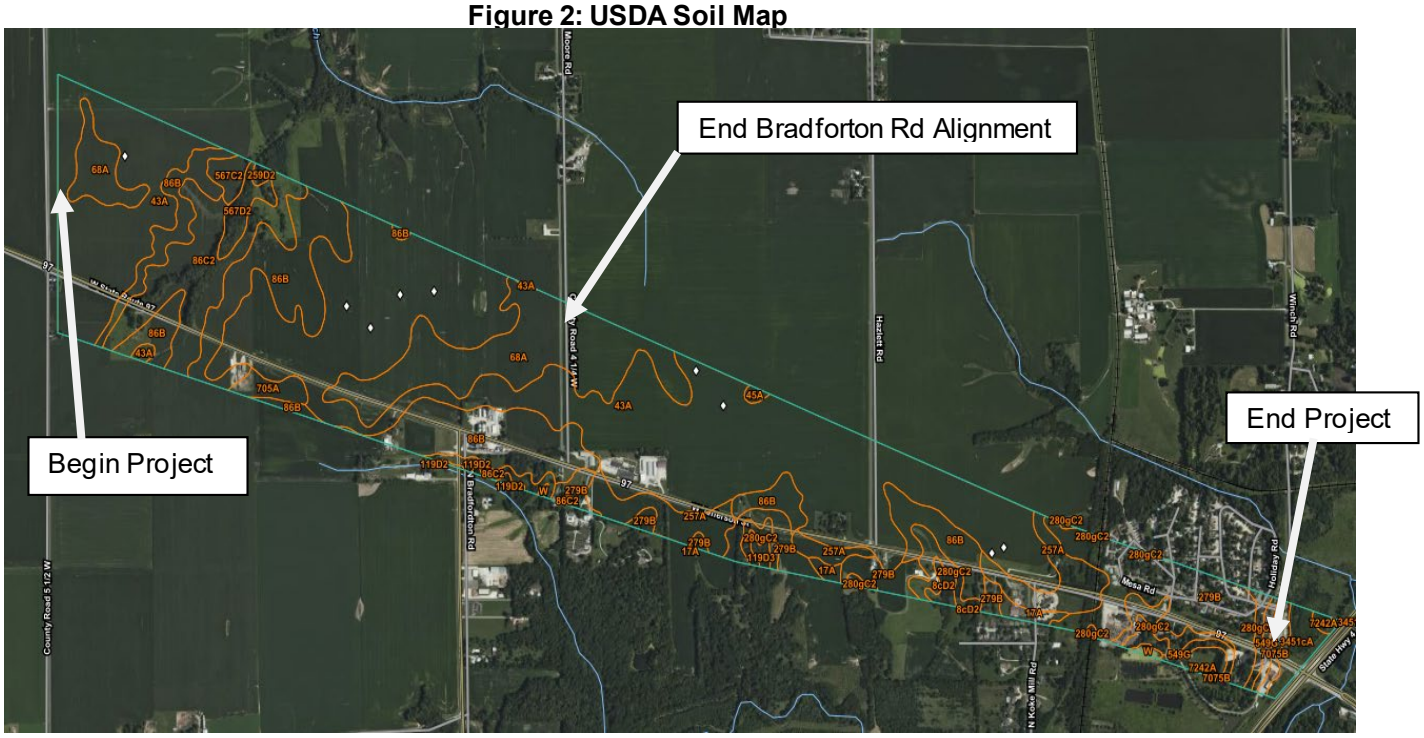
2.0 Local Geology

2.1 USDA Soil Map

The United States Department of Agriculture (USDA) offers soil maps that can be accessed with a interactive internet tool. These maps generally provide useful information as far as determining typical soils that will be encountered and can, in some cases, help differentiate and explain differences in stratigraphy between borings. However, the USDA Soil Maps do not offer much information as far as shear strength and stability of the soils encountered.

Figure 2, below, shows the Soil Map for the project area. The map indicates that a majority of the project will be composed of Ipava Silt Loam (43A), Sable Silty Clay Loam (68A), and Osco Silt Loam (86B). Typical of these ground formations are silty loam and silty clay loam of varying degrees of clay content. This matches the soil types found in the borings well.

Figure 2: USDA Soil Map



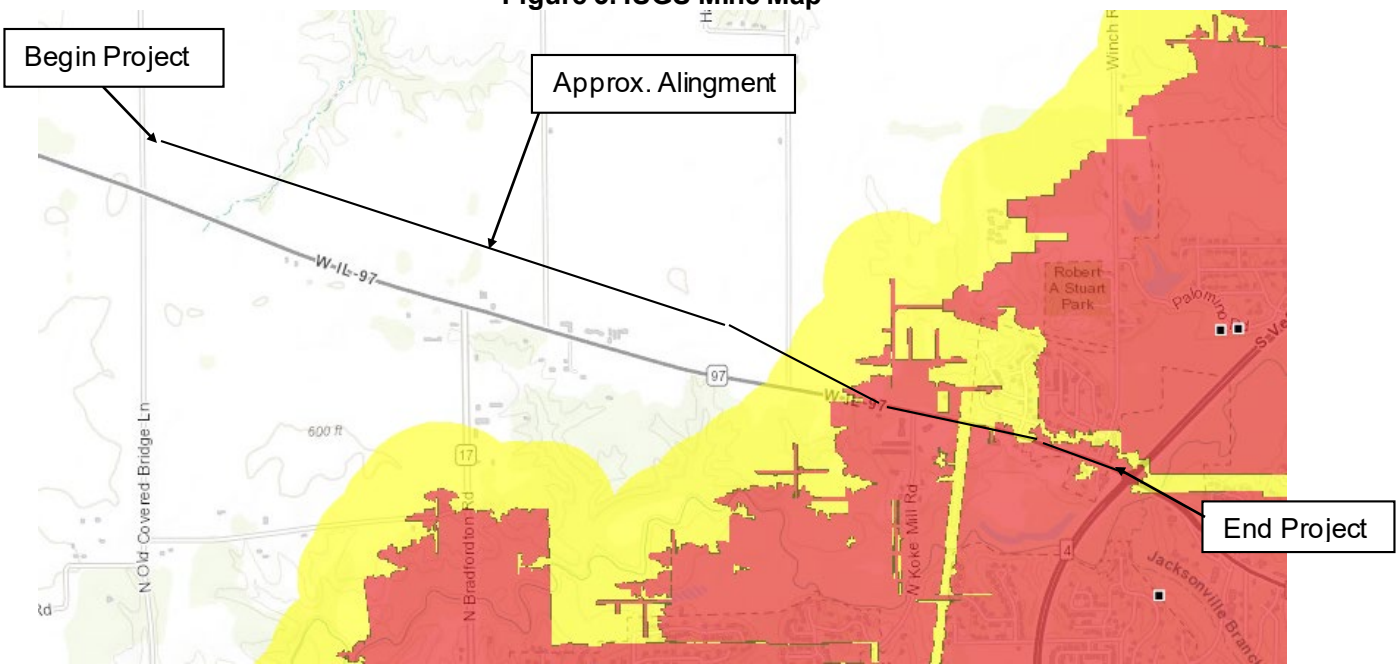
From approximately Station 718+00 to 724+00 a slight shift in the geology was indicated by the USDA Soil Map, this area is composed mostly of a variation of the Osco Silt Loam previously mentioned. This variation, shown in the map as 86C2, seems to indicate less organic top soil, due to not being classified as prime farmland. This is a phenomenon that could occur around creeks as low strength soils can be scoured away during storm events, this usually is followed by siltation of these soils elsewhere. The borings in this area did indicate an increase in shear strength, when comparing S-695, S-720, and S-745.

West of the Sangamon Valley Trail another shift in geology occurs, this area is composed mostly of Rozetta Silt Loam (279B) and Fayette Silt Loam (280gC2). The groundwater table for these ground formations is expected to be forty-eight (48) inches or deeper.

2.2 ISGS Mine Map

Underground and Surface Mines can have a dramatic impact on roadways and bridges located above/ on them. Illinois State Geological Survey (ISGS) has an online interactive map that gives approximate extents of mined areas. See Figure 3 below for a Mine Map of the project area. In the map areas in red are areas of known mining activities, as indicated on historical mine maps from the coal mines when in operation. The yellow is a buffer region to account for uncertainties and inaccuracies in the historic mine maps, as surveying techniques and technology has greatly improved over the years and differences in mining companies record keeping practices. The black squares indicated in the map are known mine shaft locations.

Figure 3: ISGS Mine Map



As can be seen in Figure 3 above, the area of the project stretching from Winch Road to Hazlett Road should be considered as undermined. The Directory of Coal Mines for Sangamon County, provided by ISGS indicates the Spring Creek Coal Company and Panther Creek Mines, Inc mined the Springfield Coal Seam in the area. A coal log, conducted by Spring Creek Coal Company in the area indicated the Springfield Seam is encountered at Elevation 372.9 and is expected to be 5.9 feet in thickness. Mining a seam this deep, underneath varying layers of limestone, sandstone, shale, and clay should not present an issue for this project. Issues could manifest in depressions caused by the collapse of the mine roof, which would be accounted for with the most recent topogrpahic survey, unless the mine roof has not already collapsed, then the issue will become a maintenance issue, as it likely can not be designed for. Shafts into the mine works are anticpated to be located outside of the project limits. If issues related to abandoned mines are encountered, the District Geotechnical Engineer and Illinois Department of Natural Resources Abandoned Mine Lanes (IDNR AML) should be contacted.

3.0 Field Exploration

3.1 Borings

Borings were taken as part of the 1999 Roadway Geotechnical Report and again in 2020 for the shifted alignment, as this made some of the previous borings not applicable to the current project.

The borings for the 1999 Report were conducted June and July of 1998, with additional work being completed in September of 1999. A CME 550 drill mounted on an all terrain vehicle was used to perform the borings. Subgrade borings were performed by hydraulically pushing a 2 ft long split barrel sampler. Upon completion of drilling, holes were left open (where possible) between 24 and 96 hours before recording the free water level. All holes were backfilled with native cuttings. Select samples were taken to the IDOT District 6 Materials Laboratory for classification. Classification were done according to AASHTO T88, T89, and T90. Bulk samples were tested according to AASHTO T99.

The borings added in 2020 were conducted using an ATV mounted CME 550 drill rig at locations provided by District Staff. Soil samples were obtained using the Standard Penetration Test (SPT), in accordance with AASHTO T 206-19. Unconfined compressive strengths are based on Rimac or penetrometer tests obtained on SPT samples. Borings were conducted during November of 2020.

Table 1 shows the departure from normal precipitation prior to, and during, the investigations.

Table 1. Precipitation Data

1998	Departure from Normal (inch)	1999	Departure from Normal (inch)	2020	Departure from Normal (Inches)
January	+0.92	March	-2.22	January	+2.67
February	+0.94	April	+0.92	February	+1.47
March	+1.39	May	-1.74	March	+0.67
April	+0.37	June	-0.96	April	+2.92
May	+2.03	July	-1.44	May	+1.64
June	+5.38	August	+1.35	June	-2.01
July	-0.2	Total	-4.09	July	+1.49
Total	+10.83			August	-1.61
				September	-0.45
				October	-1.69
				Total	+5.1

Table 1 shows the precipitation was significantly above the normal prior to the borings taken in 1998. Table 1 also shows below normal precipitation prior to the borings taken in 1999 and slightly above average precipitation before the borings taken in 2020.

3.2 Cone Penetration Test

In addition to traditional borings, cone penetration tests (CPT) were conducted to increase overall site coverage and to offer additional information to ongoing ICT Research project *Cone Penetration Testing (CPT) for Illinois Subsurface Characterization and Geotechnical Design*. Cone Penetration testing was done in accordance with ASTM D 5778-20. The soil types were empirically determined using Soil Type Classification Chart after Robertson et al 1986 and 2010. When possible, soil samples from nearby borings were used to assist in the CPT soil classification.

The results of the CPT testing did not prove useful for the purposes of this report. Especially as the top foot or so is tilled farm fields composed of a black clayey soil and the CPT results indicated this would be a highly sensitive organic soil with very little strength. Nearby borings did not agree with this assessment of the top foot or so. Additionally, the classifications given from the CPT results are a bit too general and not specific enough to be relied upon for the suitability of the soils.

4.0 Subgrade and Pavement Considerations

4.1 IL 97

4.1.1 Proposed Pavement

The pavement cross section consists of separate two lane pavements, yielding a four lane roadway. The shoulder width is set for ten feet on the outside shoulder and six feet for the inside shoulder. The 2021 AADT of the existing alignment is 9,850.

The proposed pavement is 9” thick Jointed Portland Cement Concrete Pavement, with 8” thick Portland Cement concrete Shoulders. The plans call for 4” of Stabilized Subbase ontop of 12” of Lime Modified Soil and 4” Pipe Underdrains for Drainage under the pavement. The shoulders are set to receive Subbase Granular Material, Type C and 12” of Lime Stabilized Soil.

4.1.2 Subgrade Conditions

Generally speaking, the subgrade soils expected to be encountered are Silty Clay Loam and Silty Clay with varying degrees of Silt and Clay Contents, with generally low Sand Contents. Clayey Topsoil may also be encountered. Subgrade Support Rating, Frost Susceptibility, IBV and Construction Stability, and Subgrade Treatment are discussed in the following Sections.

4.1.2.1 Subgrade Support Rating (SSR)

For the purposes of Pavement Design, a subgrade stability rating of “Poor” should be used. Of the twenty applicable Grain Size Analyses, 19 plotted in the “Poor” area of Figure 7.3.3.5-2 of the IDOT Geotechnical Manual. One did plot in the “Fair” area of Figure 7.3.3.5-2 of the IDOT Geotechnical Manual.

4.1.2.2 Frost Susceptibility

The criteria established in Section 6.3.2.2.3.1 Frost Susceptibility Evaluation were used to determine the frost susceptibility of the subgrade soils throughout the project. The evaluation did not indicate the presence of frost susceptible soils.

4.1.2.3 IBV and Constructability

The Illinois Bearing Value (IBV) was back calculated from Rimac Unconfined Compressive Strengths using Equation 2 of the IDOT Subgrade Stability Manual. Then Figure A-2 of the same manual was used to determine total treatment depth. As discussed in Section 4.2.1 Subgrade Support Rating, a vast majority of the project fell under the "Poor" category, this will require the entire pavement section receive 12" of either Lime Modified Soil or Aggregate placed underneath the pavement. Areas, requiring additional depth of either treatment are given in Table 4 below:

Table 2: At Grade Subgrade Locations of Concern

Start Station	End Station	Side	Additional Treatment Required	Problem Soil
727+00	730+00	WBL	6"	Clay and Silty Clay N60=5 C725 and C730
728+00	730+00	EBL	6"	
793+00	796+00	Both	12"	Clay w/ N60=2 C795
811+00	816+00	Both	6"	Silty Clay Loam W>30% Qu=0.5 B-12 & B-13

The Designer and Contractor have two options for the additional treatment. The first would be two lifts of Lime Modification, and the second would be Aggregate Subgrade Improvement, in lieu of Lime Modification.

4.1.2.4 Subgrade Treatment

The Clay Content of the subgrade soils indicates that Lime Modification is feasible. The lowest clay content observed was 23.4%, and generally a minimum of 15% Clay Content is required for the Lime to react with the soil. The project is not in an urban area, and mostly on lands currently used for crop farming, allowing for the use of Lime Modification in lieu of 12" of Aggregate Improved Subgrade for a majority of the project. Beginning at Station 832+00, 12" of Subbase Granular Material, Type A should be used. The exact station can be adjusted as needed for staging of traffic.

4.1.3 Subsurface Drainage

The current version of the plans include longitudinal pipe underdrains in the pavement cross section. For most of the project this will be sufficient for proper subsurface drainage. Transverse underdrains per the District 6 Standard Detail *TRANSVERSE PIPE UNDERDRAIN DETAIL* should be added for the locations in Table 3, below:

Table 3: Transverse Pipe Underdrain Locations

Start Station	End Station	Spacing along Centerline
714+00	733+00	300'
838+00	851+00	
859+00	868+00	

4.2 Bradfordton Road

4.2.1 Proposed Pavement

The proposed pavement transitions from a variable width two-way pavement with multiple turn lanes, to a two-way, two-lane pavement with 12' wide lanes and 2' hot mix asphalt shoulders. The 2012 AADT of the existing alignment is 5,200. It should be noted that the current alignment terminates at existing IL 97, with Moore Road having a substantially lower AADT, at 450 in 2017. One could infer that the proposed Bradfordton Road alignment north of the proposed IL 97 alignment would receive a similar traffic volume and mix to the existing Moore Road.

The proposed pavement is to consist of 1 ½" of hot mix asphalt surface, over 2 ¼" of hot mix asphalt binder, over 4 ¼" asphalt base, over 12" of Aggregate Base Course Type, A. The shoulders are set to be 8" thick hot mix asphalt.

It is recommended that from Station 95+30 to 126+00, the 12" of Aggregate Base Course Type, A be replaced with 12" of Lime Modified Soil. From Station 126+00 to 128+48 it is understood that Lime Modification may not be feasible due to desire to minimize Moore Road closure time.

4.2.2 Subgrade Conditions

Generally speaking, the subgrade soils encountered are expected to be clayey topsoil underlain by clays with a unconfined compressive strength over 1.5 tsf.

4.2.2.1 Subgrade Stability Rating

For the purposes of Pavement Design, a subgrade stability rating of "Poor" should be used. A case could be made that removing the top foot of clayey top soil should allow for a "Fair" rating, but the information available for Bradfordton Road are based on CPT results, in which a soil sample is not collected and therefore the silt content can not be determined. A conservative approach of assuming "Poor", matching the mainline alignment should be taken.

4.2.2.2 Frost Susceptibility

The criteria established in Section 6.3.2.2.3.1 Frost Susceptibility Evaluation of the Geotechnical Manual were used to determine the frost susceptibility of the subgrade soils throughout the project. The evaluation did not indicate the presence of frost susceptible soils.

4.2.2.3 IBV and Constructability

The Illinois Bearing Value (IBV) was back calculated from obtained Rimac Unconfined Compressive Strengths using Equation 2 of the IDOT Subgrade Stability Manual. Then Figure A-2 of the same manual was used to determine total treatment depth. As discussed in Section 4.2.2.1 a subgrade stability rating of "Poor" should be used for design, this will require either 12" of lime modified soil or aggregate placed beneath the entire pavement section. 12" of subgrade treatment should be sufficient for the entire Bradfordton Road alignment.

4.3 Sangamon Valley Trail

4.3.1 Proposed Pavement

Sangamon Valley Trail is proposed to be a 10 foot wide bike trail. Part of the alignment will be at or slightly above the existing grade, but as the alignment approaches IL 97, the grade will increase and be ontop of a modular retaining wall.

The proposed pavement will consist of 3" of hot mix asphalt surface over 6" of Aggregate Base Course, Type B.

4.3.2 Subgrade Conditions

The subgrade for the proposed pavement is expected to consist of either fill soils ontop existing railroad ballast or aggregate fill required for the retaining wall ontop silty clay soils with unconfined compressive strength close to 1.0 tsf. Railroad ballast is usually crushed granite and would be of a higher quality than limestone aggregate available within the District, it is recommended in areas that railroad ballast could be used as the subgrade soil, that the ballast remains in place. Subgrade stability is not anticipated to be an issue for the Sangamon Valley Trail Alignment.

4.4 Hazlett Road

4.4.1 Proposed Pavement

The proposed pavement is a two-way, two-lane pavement with 12' wide lanes without shoulders. The 2021 AADT for the existing alignment is 1,000.

The proposed pavement is to consist of 1 ½" of hot mix asphalt surface , over 2 ¼" of hot mix asphalt binder, over 4 ¼" asphalt base, over 12" of Aggregate Base Course Type, A.

4.4.2 Subgrade Conditions

The subgrade for the proposed pavement is expected to consist of Silty Clay with a Silt Content of approximately 63% and a PI of 19.6. The subgrade soils are not believed to be frost susceptible, due to silt content being below 65% and the PI being greater than 12. The average unconfined compressive strength of the Silty Clay is expected to be near 0.75 tsf. For design purposes a Subgrade Support Rating of "Poor" should be used. Additional subgrade treatment , outside of 12" of either Aggregate Base Course, Type A or Lime Modified Soil is not anticipated at this time.

4.5 Koke Mill Road

4.5.1 Proposed Pavement

The proposed pavement is a two-way, two-lane pavement with varying lane widths. The pavement will have 4 foot wide shoulders. The 2017 AADT of the existing alignment is 1,150.

The proposed pavement is to consist of 1 ½" of hot mix asphalt surface , over 2 ¼" of hot mix asphalt binder, over 4 ¼" asphalt base, over 12" of Aggregate Base Course Type, A. The shoulders are set to be 8" thick hot mix asphalt.

4.5.2 Subgrade Conditions

The subgrade conditions and recommendations are as described in Section 4.1.2 Station 832+00 to 843+00.

5.0 Slope Stability Analyses and Results

Large stretches of the project do not exhibit slopes taller than fifteen (15) feet in height. The stretches of the project with slopes taller than fifteen (15) feet in height were identified by a close inspection of the cross sections available at the time of the report. The critical cross section in a run of stations was analyzed using the computer software Slide2 by Rocscience. As required by the IDOT Geotechnical Manual, Bishop's Method was used to determine the factor of safety. Table 4 below shows the slopes analyzed and the resulting factor of safety at the critical cross section.

Table 4: Slope Stability Results

Alignment	Start Station	Stop Station	Side	Station Analyzed	Height of Slope	Factor of Safety	Factor of Safety Location	Slope	Boring(s) Used
IL 97	716+00	723+00	RT	718+00	17.1	4.4	Backslope	1V:3H	S-720, B-41, & B-42
	719+00	734+00	LT	722+43	18.2	6.5	Fore slope	1V:6.2H & 1V:4.2H	S-720
	839+00	842+00	LT	839+00	11.5	5.6	Backslope	1V:3H	B-5 & S-840
				842+00	18.5	2.8	Backslope, requires RR3	1V:3H	B-4 & S-840
	839+00	842+00	RT	842+00	20.2	5.3	Backslope	1V:3H	C843, S-840, & S-845
	844+70	848+00	LT	844+70	25.5	4	Backslope	1V:2.5H	B-3, S-845, & C844
	844+70	848+00	RT	844+70	25.3	3.7	Backslope & Ditch	1V:3H	B-3, S-845, & C844
	849+03	860+00	LT	850+00	16.0	8.3	Backslope	1V:3H	S-850, B-1
	860+00	864+00	LT	861+40	17.1	6.3	Backslope	1V:3H	S-859

The initial results indicated that Station 842+00 would have had a factor of safety below 1.7. This was due to the low strength silty soils indicated in boring B-4 and the high ground water table indicated by a USDA Soil Survey and nearby Boring(s). To remedy this RR3 with a filter fabric from elevations 579.4 to 576.9 should be installed. This will help alleviate seepage forces driving the lower factor of safety. The limits of the rip rap will be as directed by the District Geotechnical Engineer. All other properly constructed slopes are geotechnically adequate. Slope Stability Analyses are available in Appendix A.1

6.0 Settlement Analyses and Results

6.1 IL 97

A majority of the proposed alignment is composed of shallow fills, less than 5 feet in height, resulting in settlements less than 2 inches. The maximum predicted settlement is 2.79 inches at Station 819+00 on the Left with a fill height of 6.2 feet. Settlement was evaluated using BBS 150 *Cohesive Soil Settlement Estimate*, to a depth at which the increase in pressure is less than 10% of the effective overburden pressure or 35' whichever occurs first. Settlement estimates may be skewed high, as the stress distribution for a shallow but wide embankment shows the

change in stress dissipating slowly with depth, whereas a shallow but narrow embankment would show the change in stress dissipating quickly with depth. Overall and differential settlement issues are not anticipated.

6.2 Bradfordton Road

The maximum expected settlement along the roadway is 1.61 inches, at Station 121+50. Otherwise the settlements along Bradfordton Road are expected to be less than an inch and half. Overall and differential settlement issues are not anticipated.

6.3 Sangamon Valley Trail

The magnitude of total and differential settlement along the alignment will be less than half an inch. Settlement is not expected to be a significant issue along Sangamon Valley Trail and no further action is needed.

6.4 Hazlett Road

The maximum settlement occurring along the Hazlett Road is expected to be 1.37" at station 399+00.75, with a majority of the alignment expected to be ¾" or less. There is a mild concern of differential settlement between the mainline pavement and the Hazlett Road alignment. It is anticipated the differential between the two alignments could be 0.9" in 100', which is roughly equal to 1/1330, which does not merit a high level of concern given Hazlett is a lightly traveled HMA side road. Issues related to differential settlement between the two alignments can be alleviated by paving Hazlett Road after the mainline, which should be easy to accommodate as Hazlett Road is planned to be an asphalt road and IL 97 is planned to be jointed concrete pavement, meaning the two could not be simultaneously paved.

6.5 Koke Mill

The maximum magnitude of anticipated settlement along the Koke Mill alignment is half an inch. The mainline pavement and tie in to existing Koke Mill are expected to have less than half an inch of settlement. Overall consolidation and differential settlement is not expected to be an issue.

7.0 Minor Structure Foundations

7.1 Culverts

The project will require various pipe culvert and inlet structures for proper drainage. Table 5 below, indicates the pipe culvert structures that may require rock fill placed beneath them to ensure stable working conditions at the base of the trench. The requirement for this will be verified in construction. The unstable soil shall be replaced with rock fill as directed in the special provision Rock Fill- Foundation.

Table 5: Removal and Replacement Amount

Alignment	Station	Structure	Removal and Replacement Depth
IL 97	722+43	72" Pipe Culvert	12 inches
	821+87	42" Pipe Culvert	12 inches
Hazlett Road	399+01	36" Pipe Culvert	12 inches
	401+03	36" Pipe Culvert	12 inches

Slope Stability Analyses indicated that all known culvert locations, a construction slope of 1V:1H, should be satisfactory for the construction of the pipe culverts. The lowest calculated factor of safety was 1.9 at Station 821+87.

7.2 Noise Wall

It is anticipated that a Noise Wall will be needed for the left side of the alignment, between Sangamon Valley Trail and Winch Lane. Per Section 3.12 of the IDOT Bridge Manual, the Contractor is responsible for the design of Noise Walls, including their foundation. Borings are included in this report.

7.3 Sign and Traffic Signal Structures

A review of the Signing and Pavement Marking Plans, in the set of plans available at the time of this report, did not indicate that the new overhead sign structures and traffic signals are a part of this project, however it is suspected the intersection of Bradfordton Road and IL 97 will have traffic signals. Based on C105 and C755 the Foundation Design can be as according to Highway Standard 878001-11.

If additional overhead sign structures or traffic signals are added to the project at a later date, a Geotechnical Design Memorandum will be issued to address the design of these foundations.

8.0 Construction Considerations

8.1 Drainage Ditches and Swales

The ditches and swales throughout the project are generally do not exhibit steep slopes in areas of highly erodible soils. The preliminary plans call for rip rap on steep slopes that could be erodible, except in two areas.

- IL 97:Station 820+50 to 822+30 Right. 3.8% grade and Silts are present.
- Koke Mill Road: Station 198+50 to 199+03.5 Right. 4.98% grade and Silts are present

The identified areas above should be lined with A3 Riprap, or similar as determined by hydraulics engineer.

9.0 Summary of Design Recommendations

9.1 Contract Quantities

Table 6 below shows the estimated quantities required to address Geotechnical Issues outlined in this report. More details are provided within the report and Appendix A.2 Schedule of Quantities. Excel versions of the Schedule of Quantities are available upon request.

Table 6: Contract Quantities

Issue Addressed		Items Added	QTY	Estimated Stations	Special Provision
Subgrades*	Option 1- Aggregate Subgrade Improvement	Earth Ex	6361 CY		
		Agg Subgrade Imp 18"	9167 SY	727+00 to 730+00 WBL, 728+00 to 730+00 EBL, 811+00 to 816+00	BDE Special Aggregate Subgrade Improvement
		Agg Subgrade Imp 24"	2667 SY	793+00 to 796+00	
	Option 2- Lime Modification**	Earth Ex	6361 CY		
		Process Mod Soil 18"	9167 SY	727+00 to 730+00 WBL, 728+00 to 730+00 EBL, 811+00 to 816+00	
		Process Mod Soil 24"	2667 SY	793+00 to 796+00	
		Lime	382 TON		
Slopes(3)		Rem & Dis Uns Matl	99 CY	839+00 to 844+00 (Elev 579.4 to 576.9)	
		Stone Riprap, Class A3	444 SQ YD		
		Filter Fabric	444 SQ YD		
Culverts(4)		Rockfill-Foundation	308 TON	Stations 722+43, 821+87, 399+01, & 401+03	Rockfill-Foundation
Subsurface Drainage		Pipe Underdrain	9150 FT	714+00 to 733+00, 838+00 to 851+00, & 859+00 to 868+00	

*Estimated Quantities for correcting unstable subgrade may be reduced, increased, or deleted by the Engineer based on actual field conditions. No work involving these estimated quantities shall be performed without the direction and approval of the Engineer.
**The Lime Modification shall take place in two separate operations with a maximum treatment depth of 12 inches. The earth excavation will be paid for each separate operation.
(3) Estimated Quantity for correcting slope stability/seepage may be reduced, increased, or deleted by the Engineer based on actual field conditions. No work involving these estimated quantities shall be performed without the direction and approval of the Engineer.
(4) Estimated Quantity assumes 12 inches of Rockfill-Foundation. Quantity may be reduced, increased, or deleted by the Engineer based on actual field conditions. No work involving the estimated quantity shall be performed without the direction and approval of the Engineer.

9.2 Special Provisions

The following is a list of special provisions that should be added to the contract. Full versions of the special provisions are available in Appendix A.3.

- Geotechnical Data
- Rockfill-Foundation
- BDE Special Provision: Aggregate Subgrade Improvement

9.3 Plan Notes

The following note(s) should be added to the General Notes:

The Contractor should anticipate shallow ground water during excavation operations. Available information indicates ground water can be as shallow as 0-24 inches.

Under Application Rates add a row for Lime. The application rate for lime used for the preliminary Lime quantity is 0.06 tons/ cu yd or 0.02 tons/sq yd for a treatment depth of 1', this correlates roughly to 4% lime by weight.

9.4 Design Considerations

Design Inputs are as follows:
Subgrade Stability Rating (SSR)= POOR
Lime Application Rate=0.02 tons per square yard
Subbase Granular Application Rate=2.05 tons per cubic yard
Shrinkage Factor=20%

Lime application rate given above assumes 4% lime by weight.

Construction Slopes for culvert construction should not be steeper than 1V:1H.

Erosion of Silts is a concern for various stretches of the project, please see section 8.1 for more information. Proper temporary erosion control measures are critical to proper performance of ditches.

Furnishing topsoil may not be required, as throughout the project top soil can be as deep as 12-14 inches.

Appendices

Appendix A.1 Slope Stability Analyses

Appendix A.2 Schedule of Quantities

Appendix A.3 Special Provisions

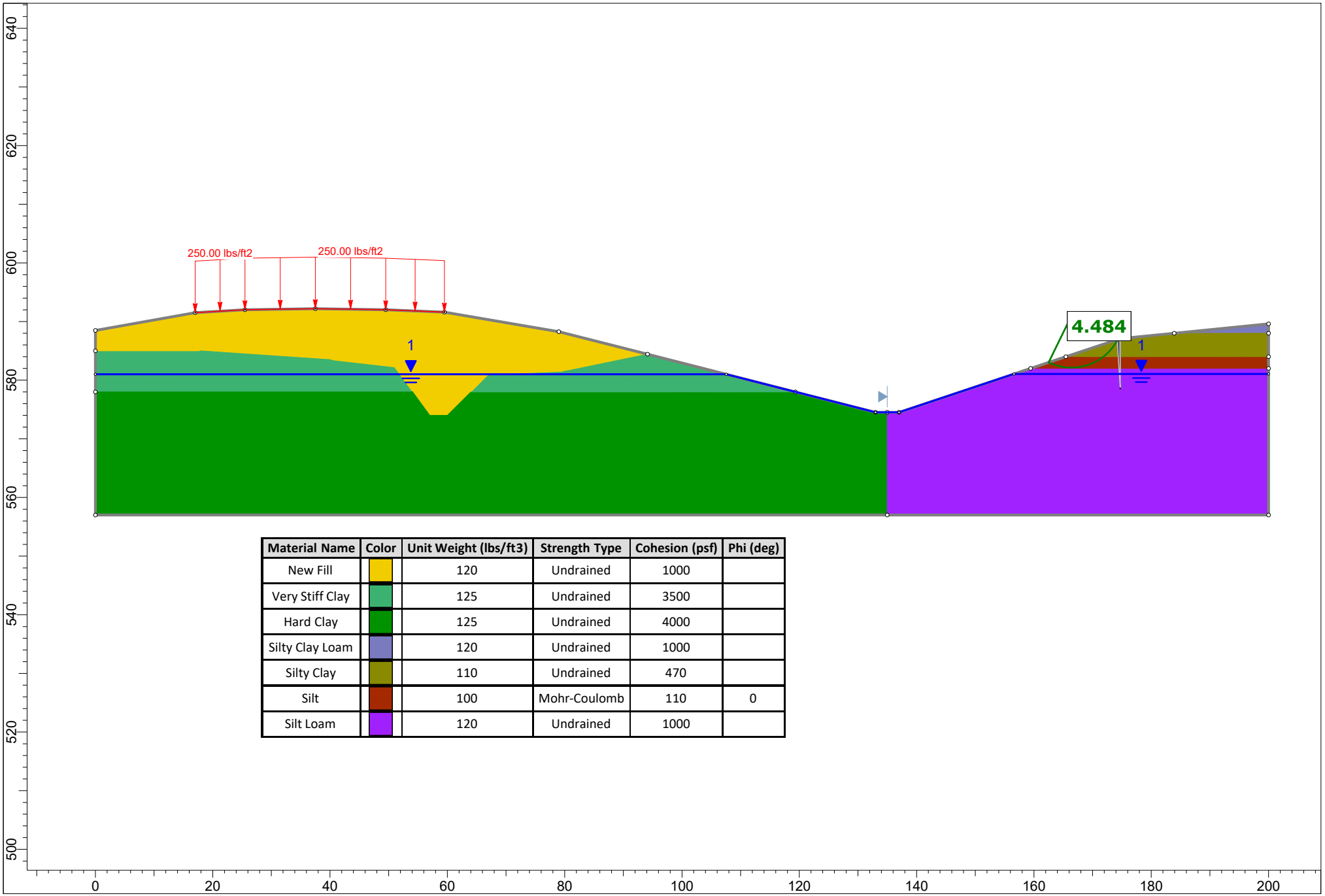
Appendix A.4 Soil Profile

Appendix A.5 Soil Borings

Appendix A.6 Soil Testing

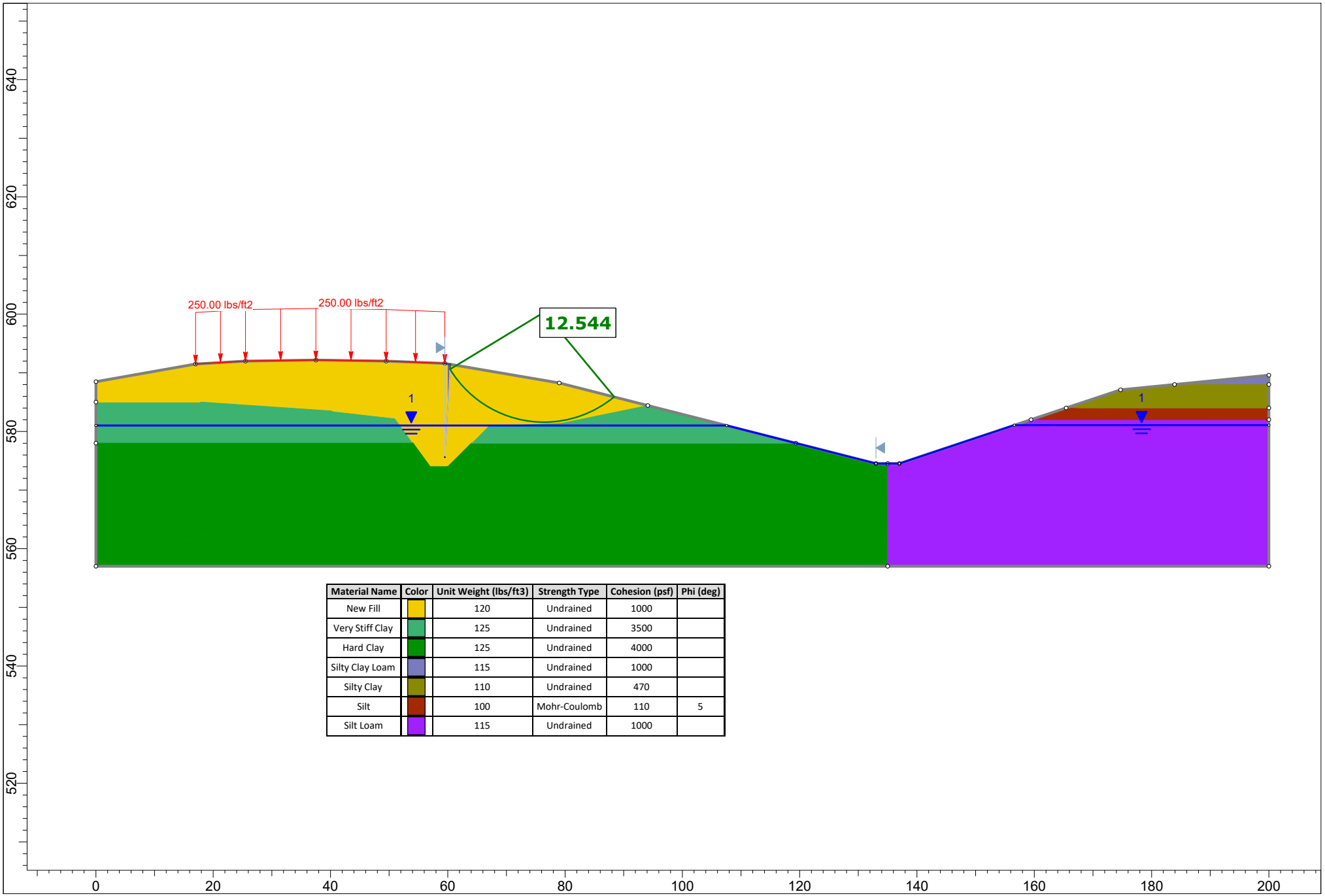
Appendix A.1 Slope Stability Analyses

Station 718+00 Backslope



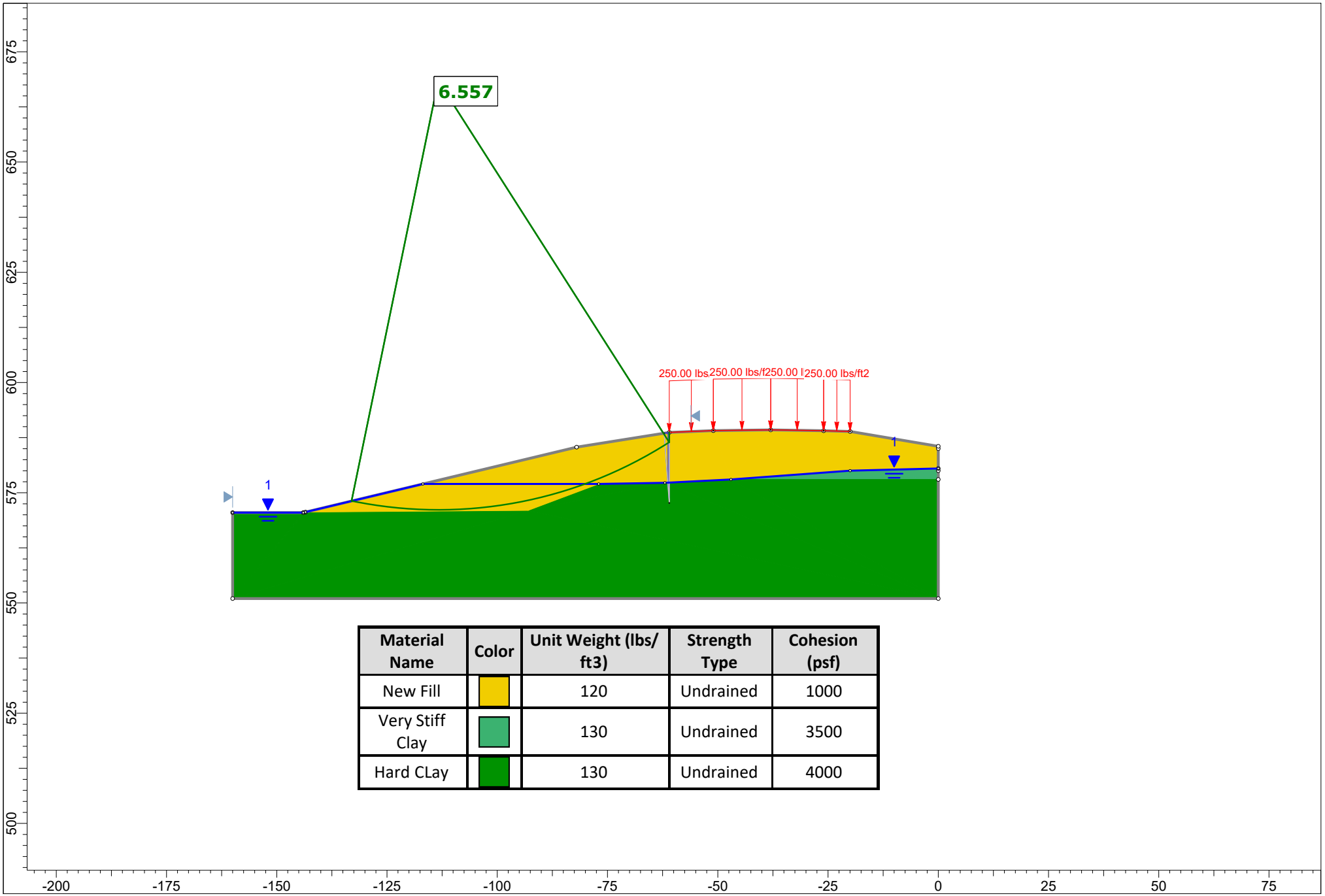
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
New Fill		120	Undrained	1000	
Very Stiff Clay		125	Undrained	3500	
Hard Clay		125	Undrained	4000	
Silty Clay Loam		120	Undrained	1000	
Silty Clay		110	Undrained	470	
Silt		100	Mohr-Coulomb	110	0
Silt Loam		120	Undrained	1000	

Station 718+00 Foreslope



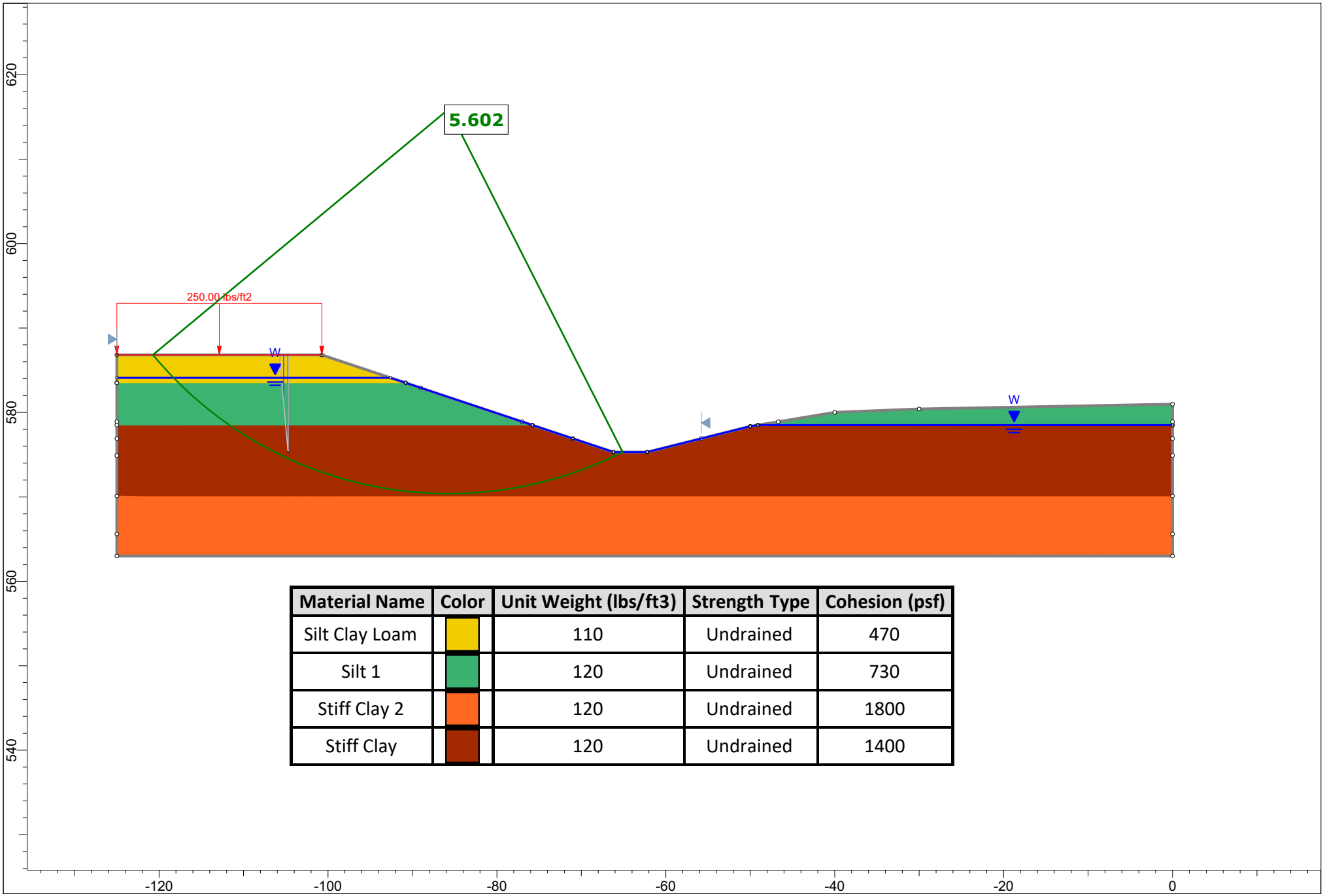
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
New Fill		120	Undrained	1000	
Very Stiff Clay		125	Undrained	3500	
Hard Clay		125	Undrained	4000	
Silty Clay Loam		115	Undrained	1000	
Silty Clay		110	Undrained	470	
Silt		100	Mohr-Coulomb	110	5
Silt Loam		115	Undrained	1000	

Station 722+43 LT



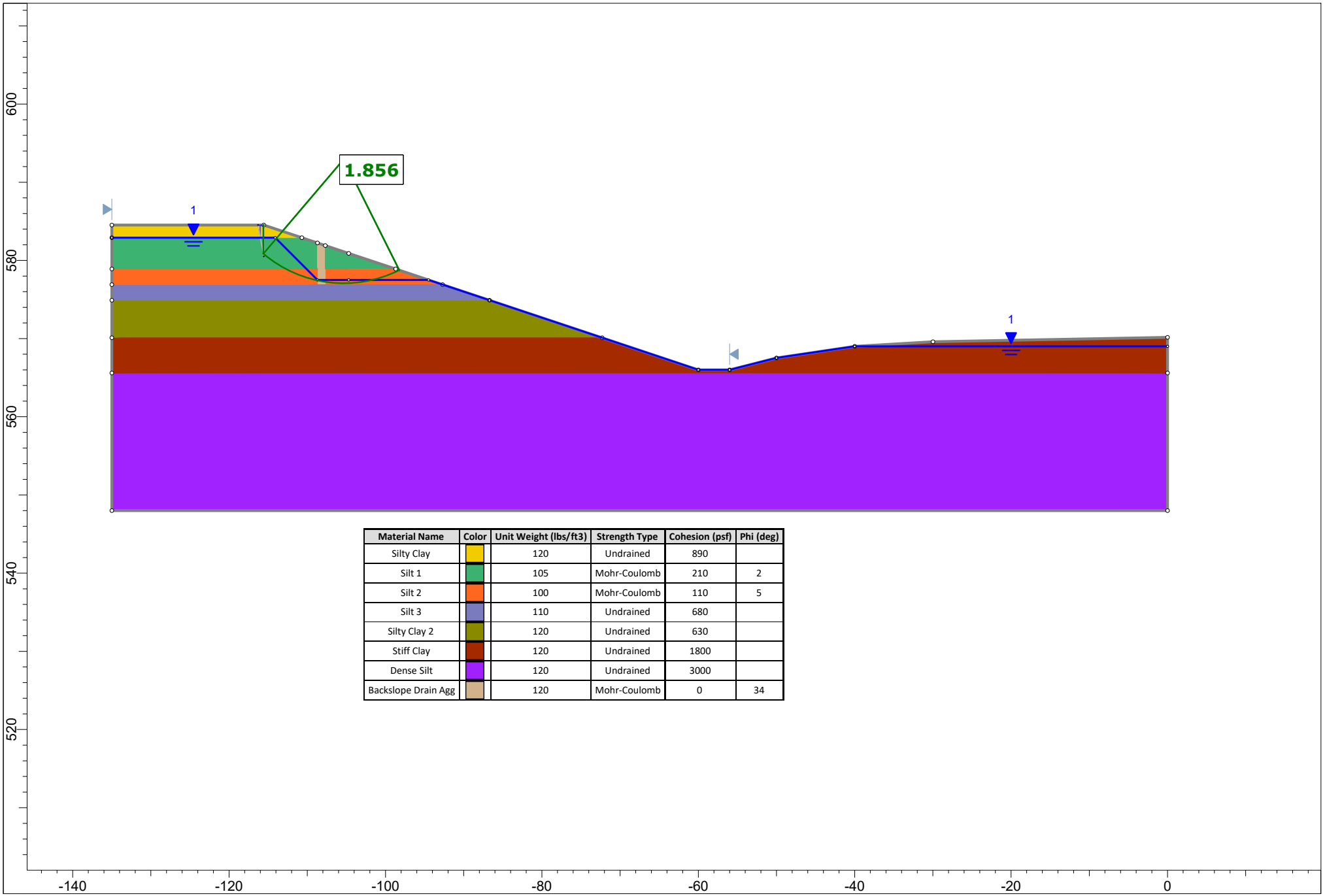
Material Name	Color	Unit Weight (lbs/ ft3)	Strength Type	Cohesion (psf)
New Fill		120	Undrained	1000
Very Stiff Clay		130	Undrained	3500
Hard CLay		130	Undrained	4000

Station 839+00 LT



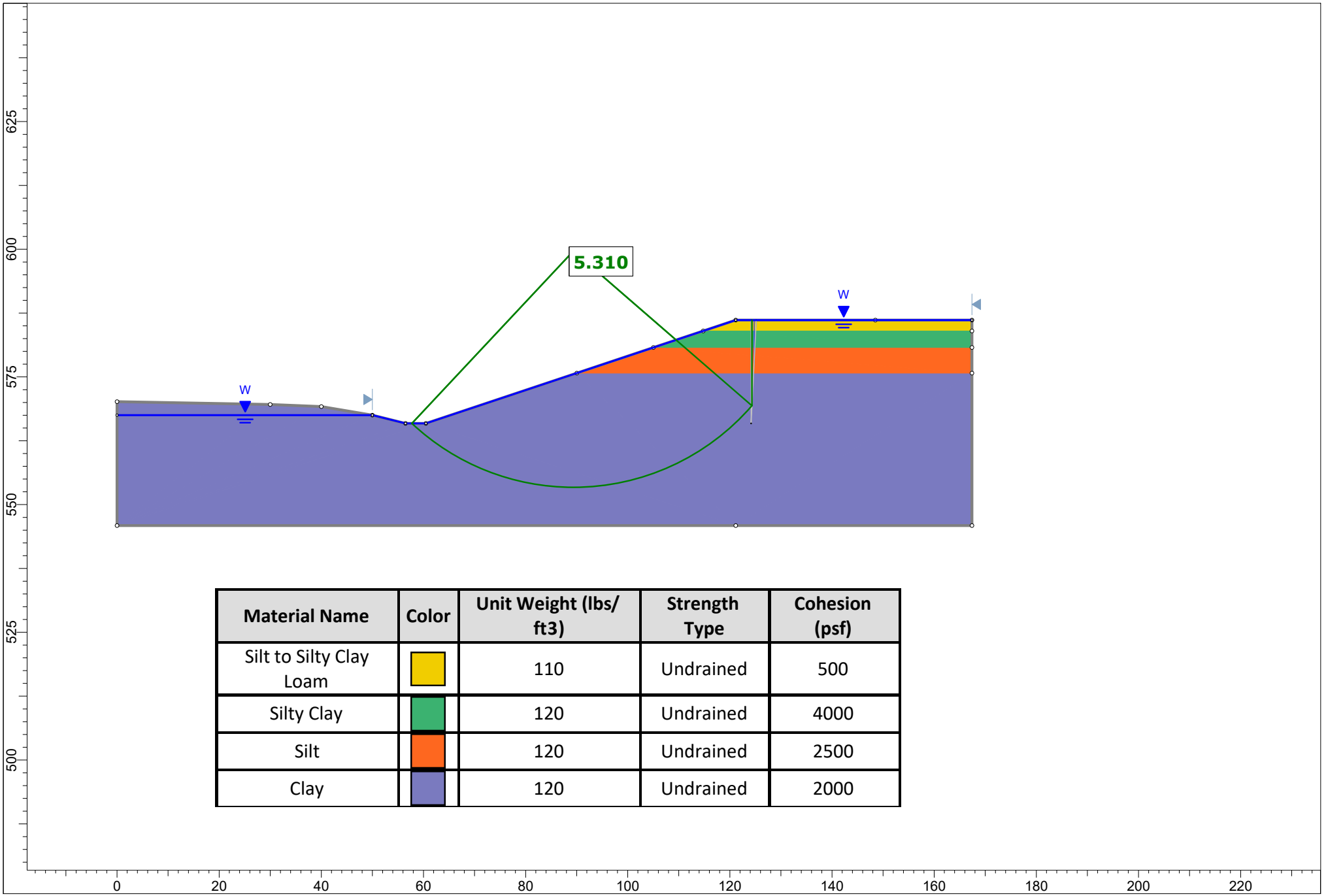
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)
Silt Clay Loam		110	Undrained	470
Silt 1		120	Undrained	730
Stiff Clay 2		120	Undrained	1800
Stiff Clay		120	Undrained	1400

Station 842+00 LT



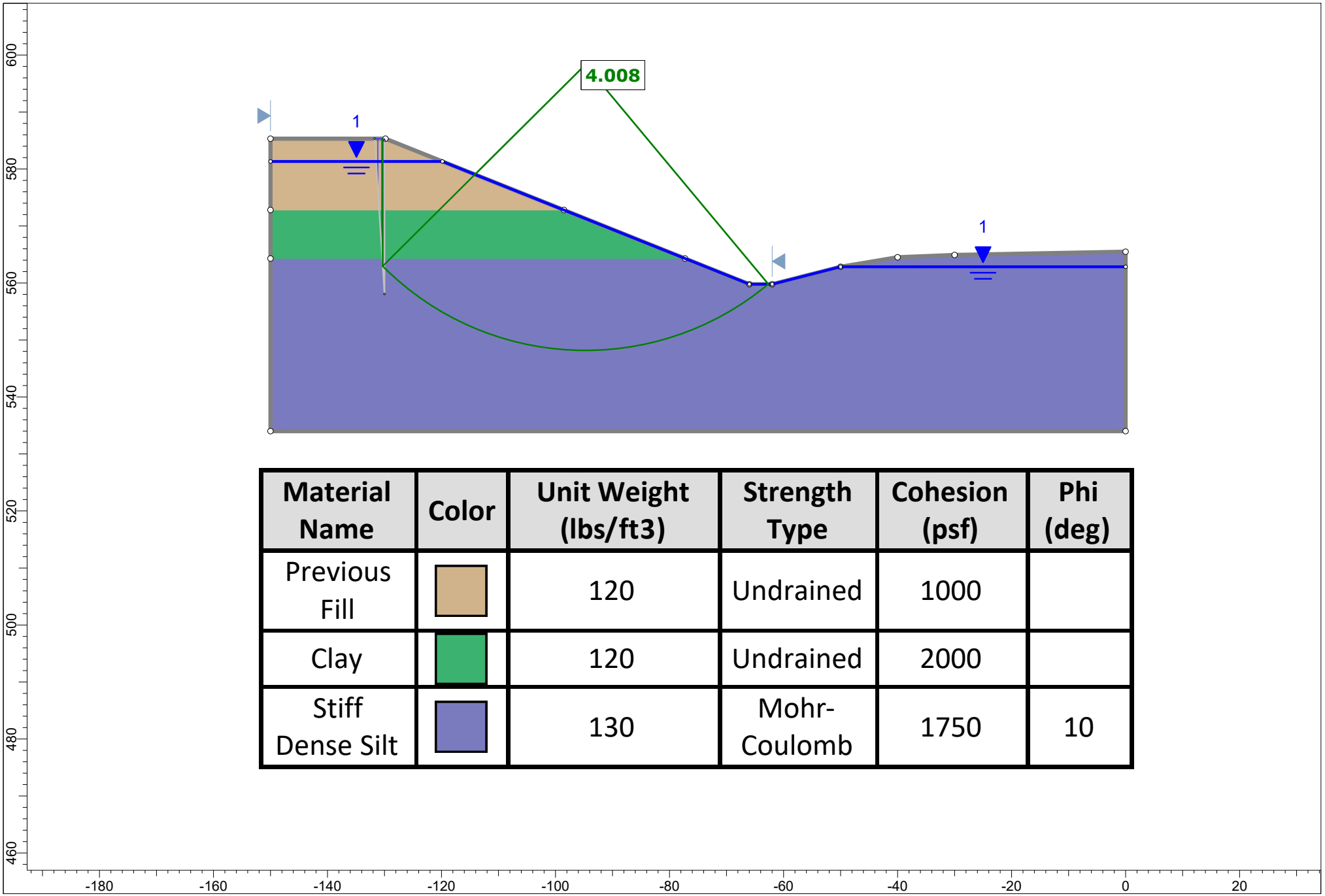
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Silty Clay		120	Undrained	890	
Silt 1		105	Mohr-Coulomb	210	2
Silt 2		100	Mohr-Coulomb	110	5
Silt 3		110	Undrained	680	
Silty Clay 2		120	Undrained	630	
Stiff Clay		120	Undrained	1800	
Dense Silt		120	Undrained	3000	
Backslope Drain Agg		120	Mohr-Coulomb	0	34

Station 842+00 RT



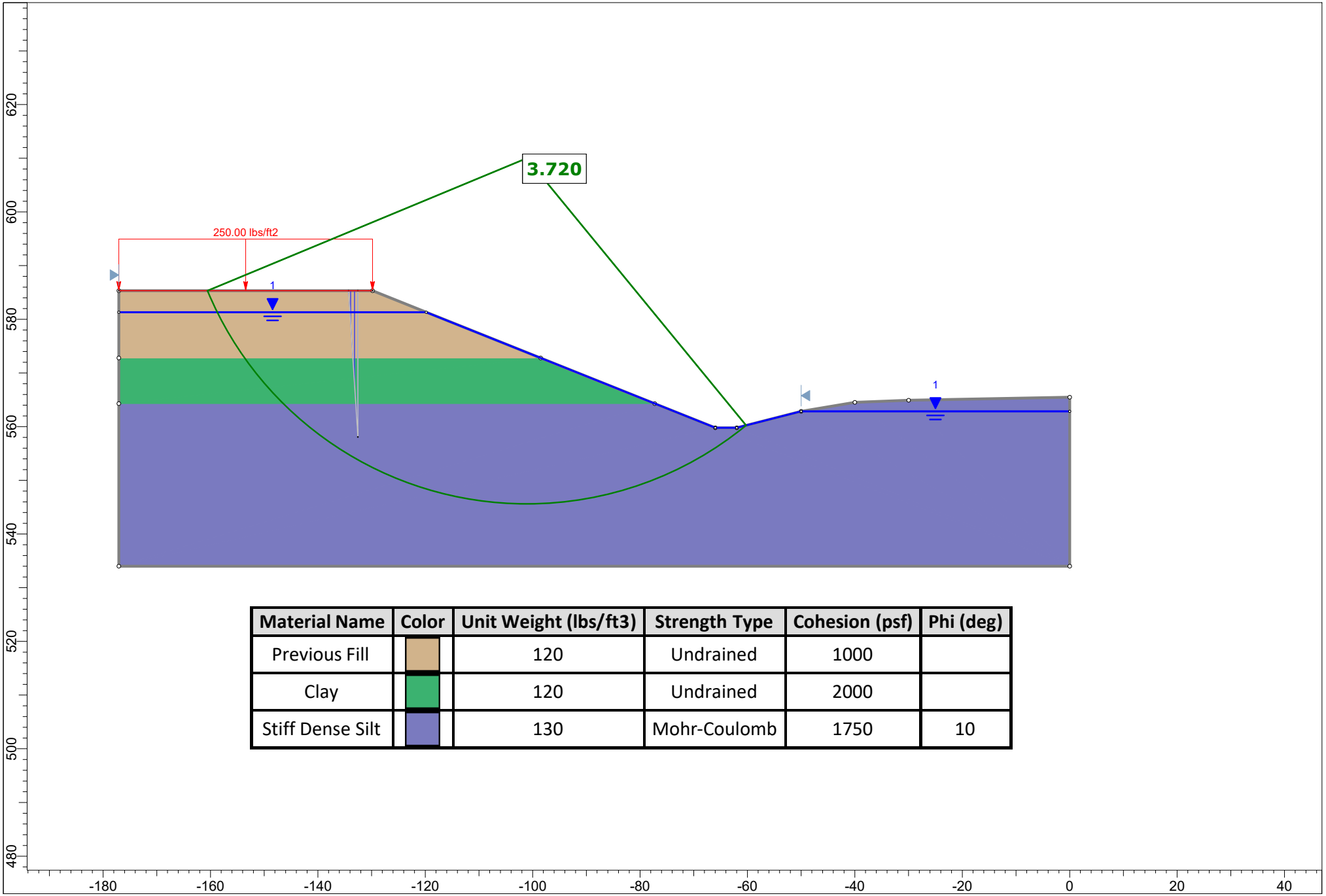
Material Name	Color	Unit Weight (lbs/ ft3)	Strength Type	Cohesion (psf)
Silt to Silty Clay Loam		110	Undrained	500
Silty Clay		120	Undrained	4000
Silt		120	Undrained	2500
Clay		120	Undrained	2000

Station 844+70 LT



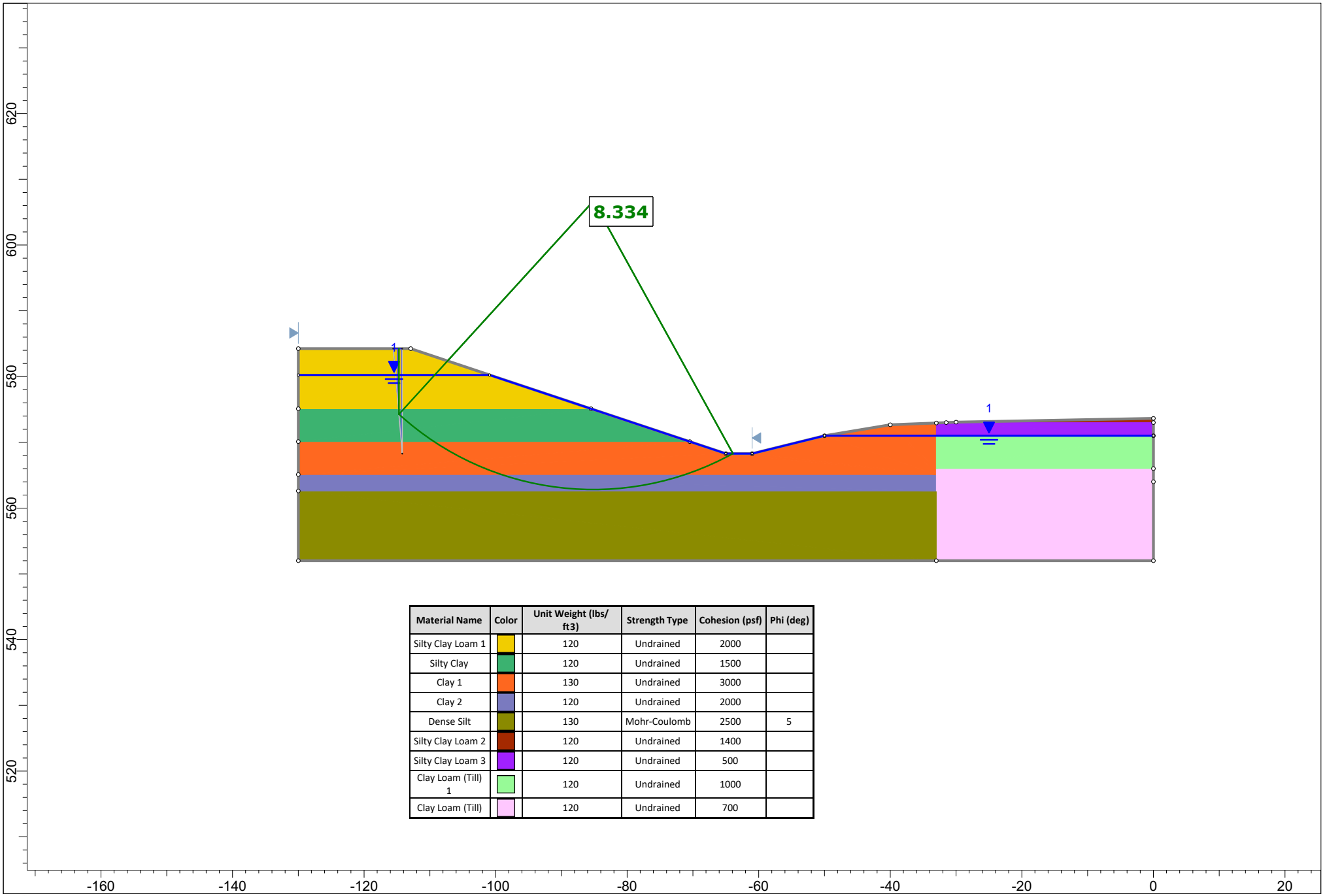
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Previous Fill		120	Undrained	1000	
Clay		120	Undrained	2000	
Stiff Dense Silt		130	Mohr-Coulomb	1750	10

Station 844+70 RT



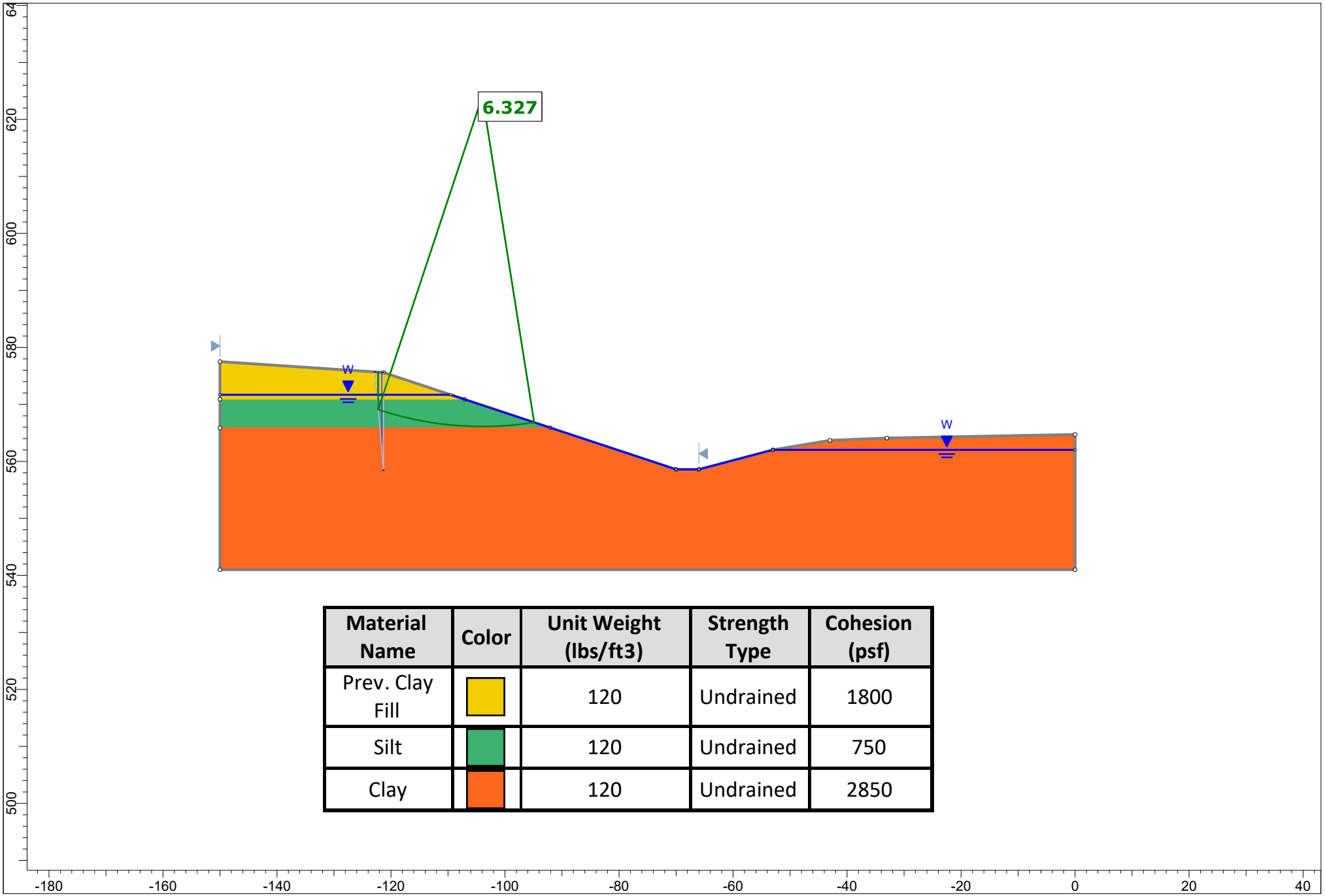
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Previous Fill		120	Undrained	1000	
Clay		120	Undrained	2000	
Stiff Dense Silt		130	Mohr-Coulomb	1750	10

Station 850+00 LT



Material Name	Color	Unit Weight (lbs/ ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Silty Clay Loam 1		120	Undrained	2000	
Silty Clay		120	Undrained	1500	
Clay 1		130	Undrained	3000	
Clay 2		120	Undrained	2000	
Dense Silt		130	Mohr-Coulomb	2500	5
Silty Clay Loam 2		120	Undrained	1400	
Silty Clay Loam 3		120	Undrained	500	
Clay Loam (Till) 1		120	Undrained	1000	
Clay Loam (Till)		120	Undrained	700	

Station 861+40 LT



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)
Prev. Clay Fill		120	Undrained	1800
Silt		120	Undrained	750
Clay		120	Undrained	2850

Appendix A.2 Schedule of Quantities

						Option 1- Aggregate Subgrade Improvement			Option 2-Lime Modified Soil			
				Total		20200100	30300118	30300124	20200100	30200950	30201250	30201500
	Station			Depth	Width	Earth Excavation	Agg Subgrade Impr 18"	Agg Subgrade Impr 24"	Earth Excavation	Process Mod Soil 18	Process Mod Soil 24	Lime
Alignment	Start	End	Side	(inches)	(feet)	CU YD	SQ YD	SQ YD	CU YD	SQ YD	SQ YD	TON
IL 97	727+00	730+00	WBL	18	40	666.7	1333.3		666.7	1333.3		40.0
	728+00	730+00	EBL	18	40	444.4	888.9		444.4	888.9		26.7
	793+00	796+00	Both	24	80	1777.8		2666.7	1777.8		2666.7	106.7
	811+00	816+00	Both	18	125	3472.2	6944.4		3472.2	6944.4		208.3
				Totals		6361	9167	2667	6361	9167	2667	382

Schedule of Slope Stability Quantities

			20201200	28100105	28200200
	Station		REM & DIS UNS MATL	STONE RIPRAP, CLASS A3	FILTER FABRIC
Alignment	Start	End	CU YD	SQ YD	SQ YD
IL 97	839+00	844+00	98.8	444.4	444.4
Total			99	444	444

Schedule of Culvert Quantities

					Z0054517
		Length	Width	Depth	ROCK FILL-FOUNDATION
Alignment	Station	FT	INCH	INCH	TON
IL 97	722+43	222	108	12	151.7
	821+87	198	78	12	97.7
Hazlett	399+01	63	72	12	28.7
	401+03	66	72	12	30.1
Totals					308

Appendix A.3 Special Provisions

GEOTECHNICAL DATA **6M5 2/10/04**
Reviewed: April 14, 2020

A subsurface investigation has been performed for this project. Geotechnical data including boring logs and laboratory test results are available for Contractor review prior to bidding. The data can be reviewed at the District 6 Annex located at 1340 North 9th Street in Springfield. Contact the District Geotechnical Engineer at 217-782-6709.

ROCKFILL - FOUNDATION **6M10 6/15/17**
Revised: April 14, 2020

Description. This work consists of constructing a layer of rockfill below culverts or spread footings having unstable or unsuitable soil conditions. When shown on the plans, the rockfill limits and thickness shall be confirmed by the Engineer prior to excavating below the theoretical top of rockfill line.

Materials. Rockfill materials shall meet the requirements of Article 1005.01 of the Standard Specifications. The gradation of rockfill shall be primary crusher run. The maximum dimension shall be 8 inches. Rockfill may contain broken pavement or rock excavation as defined in Article 205.04 and with the approval of the Engineer.

Materials shall meet the requirements of the following Articles of the Standard Specifications:

Bedding or Capping Material ..... 1003.04 or 1004.05

Construction Requirements. The method of rockfill placement shall be approved by the Engineer. Rockfill shall be capped according to application as shown below:

Spread Footing	.....	4 to 6 inches CA-6
Cast-In-Place Box Culverts	.....	4 to 6 inches CA-7 or CA-11
Pre-Cast Box Culverts	.....	Porous Granular Bedding Material (Article 540.02)
Pre-Cast Pipe Culverts	.....	Coarse or Fine Aggregate Bedding (Article 542.04)

Excavation shall be performed according to Section 202 of the Standard Specifications.

In spread footing applications, the CA-6 cap shall be compacted to the satisfaction of the Engineer. No compaction of rockfill is required for culvert applications.

Method of Measurement. This work will be measured for payment in tons (metric tons).

Basis of Payment. This work will be paid for at the contract unit price per ton for ROCKFILL - FOUNDATION. The contract unit price for ROCKFILL-FOUNDATION shall include excavation, aggregate materials, aggregate material placement, and placement of excavated materials within right-of-way or disposal off right-of-way. *Excavation will not be measured or paid for separately or as part of EARTH EXCAVATION.* For precast concrete box culverts, porous granular bedding material and the excavation volume required for bedding will be paid for according to Article 540.08. For pipe culverts, the aggregate bedding material and excavation volume required for the aggregate bedding material will be paid for according to Article 542.11.

Appendix A.4 Soil Profile

STA 716+00.00, 0.00' LT/RT
FLUSH INLET BOX
FOR MEDIAN
RIM 590.48
INV 585.50

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

STA 722+00.00, 101.00' LT
PRECAST REINF CONC
FLARED END SECTION, 24"
INV 578.50

STA 722+77.20, 119.27' LT
PRECAST REINF CONC
FLARED END SECTION, 72"
INV 570.50

CONSTRUCTION LIMITS

PIPE CULVERT, CLASS A
TYPE 2, 24" x 93' @ 2.01%

PR ROW

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

AGGREGATE SHOULDERS, TYPE B 6"

℄ IL 97

STA 722+00.00, 0.00' LT/RT
FLUSH INLET BOX FOR MEDIAN
RIM 585.48
INV 580.50

PIPE CULVERT, CLASS A
TYPE 2, 72" x 222' @ 1.05%

MATCH LINE STA 712+50

MATCH LINE STA 725+50

10' 24' 6' 6' 24' 10'

715+00

720+00

725+00

CPT: C720

S-720

CPT: C715

CPT: C725

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

PIPE CULVERT, CLASS A
TYPE 2, 24" x 96' @ 2.38%

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

PR ROW

284.67'

399.29'

STA 716+00.00, 104.00' RT
PRECAST REINF CONC
FLARED END SECTION, 24"
INV 583.06

CONSTRUCTION LIMITS

STA 722+11.30, 110.54' RT
PRECAST REINF CONC
FLARED END SECTION, 72"
INV 573.00

B-43

B-42

NOTE: THE PR PROFILE GRADE LINE
IS LOCATED AT THE MEDIAN EDGE
OF THE TRAVELED WAY

N

0 50 100
SCALE IN FEET

PLAN
SURVEYED
PLOTTED
ADDRESS CHECKED
NOTE BOOK R/W CHECKED
NO. CADD FILE NAME
BY DATE

PROFILE
SURVEYED
PLOTTED
ADDRESS CHECKED
NOTE BOOK B.M. NOTED
NO. STRUCTURE NO(TA)NS CHKD
BY DATE

MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-soil phlprf IL97 11.dgn

610 605 600 595 590 585 580 575 570

B-43
STA 713+79.31
@ 284.67' RT
Grd 593.44

	Qu TSF	W%	
S-14	0.52	22	592.40 SILTY CLAY LOAM SUITABLE
S-12	0.42	27	590.49 SILTY CLAY SUITABLE
B	0.52	27	588.52
B	0.42	27	586.55 SILT RESTRICTED-USE
S-14	2.09	24	584.58

-0.70% -1.00% -1.00% +1.00% +1.00% SD RT 1.02%

75% 00%

STA. 715+00.00
SD LT
ELEV. 590.87

CPT: C715
STA 715+00
@ 37.5' RT

Su TSF	Grd	
	590.20	SENSITIVE FINE GRAINED
	588.70	
2.0	586.70	
	584.40	
	583.90	
1.5	582.90	CLAY & SILTY CLAY
1.7	583.70	
1.6	583.40	
0.5	580.20	
	579.90	
	579.50	SILTY SAND

PR PROFILE GRADE LINE

EX GROUND LINE AT PR ℄ IL 97

S-720
STA 720+00.00
@ 37.50' RT

	Qu TSF	W%	Grd
CLAY TOPSOIL			583.50
S	4.62	16.5	582.92
CLAY SAND			
S	3.88	13.5	578.00
CLAY SAND & GRAVEL			
S	4.57	14.4	573.50

STA. 715+00.00
SD RT
ELEV. 588.15

SD RT -5.09%

SD LT 2.61%

STA. 717+65.00
SD RT
ELEV. 574.65

SD RT -0.37%

STA. 725+00.00
SD LT
ELEV. 582.66

SD RT 4.13%

SD LT 5.50%

STA. 722+79.00
SD LT
ELEV. 570.50

SD LT
0.45%

STA. 725+00.00
SD RT
ELEV. 585.19

CPT: C725
STA 725+00
@ 37.5' RT

Su TSF	Grd	
	584.40	
	583.60	SILTY SAND
2.0	580.40	CLAY SILTY CLAY
	579.90	
1.0	579.10	SILTY SAND
	577.20	
0.9	576.75	CLAY SILTY CLAY
0.8	575.60	
0.5	575.60	
0.8	574.20	
	573.50	SILTY SAND

594.79 597.03	594.35 596.66	593.53 596.26	592.60 595.85	591.42 595.41	590.65 594.96	589.87 594.49	589.46 594.00	588.48 593.50	587.28 593.00	586.11 592.50	585.09 592.00	584.72 591.50	582.06 591.00	575.82 590.50	580.30 590.00	581.46 589.56	583.00 589.25	582.93 589.06	582.09 589.00	576.42 589.06	580.33 589.25	582.46 589.56	582.76 590.00	583.39 590.50	585.06 591.00	586.64 591.50
713+00			714+00		715+00		716+00		717+00		718+00		719+00		720+00		721+00		722+00		723+00		724+00		725+00	

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JACKSONVILLE • PEORIA • SHOREWOOD
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Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = JWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2021	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 2 OF 20 SHEETS | STA. 712+50.00 TO STA. 725+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	83
		CONTRACT NO. 92621		
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION LIMITS

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

PR ROW — AC — AC — AC — AC — PR ROW

AGGREGATE SHOULDERS, TYPE B 6"

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

BEGIN PROJECT
STA 705+00.00

℄ IL 97

MATCH LINE STA 712+50

CPT: C700

CPT: C710

CPT: C705

705+00

710+00

EX ℄ CH 46
(OLD COVERED BRIDGE LN)

EX ℄ IL 97

B-47

B-46

B-45

B-44

299.77'

EX ROW

AGGREGATE SHOULDERS, TYPE B 6"

PORTLAND CEMENT CONCRETE PAEVMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

PR ROW — AC — AC — AC — PR ROW

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

CONSTRUCTION LIMITS

NOTE: THE PR PROFILE GRADE LINE
IS LOCATED AT THE MEDIAN EDGE
OF THE TRAVELED WAY

N

0 50 100
SCALE IN FEET

BEGIN PROJECT
STA 705+00.00

PR PROFILE GRADE LINE

EX GROUND LINE AT PR ℄ IL 97

CPT: C700
STA 700+00
@ 37.5' LT

Su TSF	Grd
	599.70
SILTY SAND	599.00
	598.55
1.2	596.00
CLAY & SILTY CLAY 1.4	595.70
1.5	595.70
1.1	592.30
0.8	591.75
	589.00

B-47 STA 700+77.83
@ 113.14' RT

	Qu TSF	W%	Grd
			601.11
P	0.52	27	600.13 SILTY CLAY LOAM SUITABLE
S-10	0.21	30	598.16 SILTY CLAY SUITABLE
B	0.2	26	596.19
P	0.3	27	594.22 SILT RESTRICTED-USE
P	0.99	25	592.25

B-46
STA 704+02.46
@ 161.34' RT

	Qu TSF	W%	Grd
			600.23
S-8	0.42	22	599.25
S-11	0.68	22	597.28
S-8	0.42	22	595.31
S-8	0.42	22	593.34
S-8	0.42	22	591.37

SILTY CLAY LOAM SUITABLE
SILTY CLAY SUITABLE
SILT RESTRICTED-USE

CPT: C705
STA 705+00
@ 37.5' RT

Su TSF	Grd
	598.90
0.5	598.50
1.5	595.20
1.3	594.70
1.7	593.30
1.6	591.80
0.6	588.20

ORGANIC SOIL
CLAY & SILTY CLAY

B-45
STA 707+30.73
@ 185.16' RT

	Qu TSF	W%	Grd
			598.42
S-8	0.21	25	597.44
S-13	0.63	25	595.47
P	0.78	27	593.50
B	0.52	25	591.53
B	0.1	25	589.56

SILTY CLAY LOAM RESTRICTED-USE
SILTY CLAY SUITABLE
SILT RESTRICTED-USE

0.70%
SD LT 0.75%
SD RT 1.00%

CPT: C710
STA 710+00
@ 37.5' LT

Su TSF	Grd
	596.10
	595.70
1.9	591.80
1.3	591.30
1.9	590.80
	590.00
1.1	588.20
1.2	588.40
1.1	587.00
1.2	586.67
1.9	586.60
	585.50

SENSITIVE FINE GRAINED
CLAY & SILTY CLAY
SILTY SAND
CLAY & SILTY CLAY
SILTY SAND

B-44
STA 710+45.07
@ 299.77' RT

	Qu TSF	W%	Grd
			596.00
S-12	0.42	24	595.02 SILTY CLAY LOAM RESTRICTED-USE
S-11	0.52	31	593.05 SILTY CLAY SUITABLE
P	0.31	28	591.08
P	0.99	26	589.11 SILT RESTRICTED-USE
P	0.21	31	587.14

615 610 605 600 595 590 585 580 575

600.81 600.54 600.18 599.99 599.93 600.14 600.22 600.50 599.83 599.61 599.48 599.16 599.08 602.27 598.99 601.92 598.98 601.57 598.69 601.22 598.19 600.87 598.07 600.52 597.54 600.18 597.15 599.83 596.72 599.48 596.42 599.13 596.31 598.78 596.23 598.44 595.69 598.09 595.50 597.74 595.18 597.39 594.79 597.03

699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00 712+00

BEGIN CONTRACT 92621

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
B.M. NOTED
STRUCTURE NO
TATN'S CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-sedl plnprf IL97 10.dgn

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JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = JWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 1 OF 20 SHEETS | STA. 705+00.00 | TO STA. 712+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	82
		CONTRACT NO. 92621		
		ILLINOIS	FED. AID PROJECT	

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

STA 731+00.00
PIPE CULVERT, CLASS D
TYPE 2, 42" x 141' @ 0.45%
US INV 585.79, STA 731+93.60, 111.41 LT
DS INV 585.16, STA 730+52.60, 110.42 LT

STA 732+98.79, 99.77' LT
PRECAST REINF CONC
FLARED END SECTION, 42"
INV 586.26

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

CONSTRUCTION LIMITS

℄ IL 97

PR ROW

AGGREGATE SHOULDERS, TYPE B 6"

PIPE CULVERT, CLASS A
TYPE 2, 42" x 174 @ 2.02%

MATCH LINE STA 725+50

MATCH LINE STA 738+50

10' 24' 6' 6' 24' 10'

CPT: C730

730+00

735+00

CPT: C735

AGGREGATE SHOULDERS, TYPE B 6"

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

STA 733+38.50, 87.05' RT
PRECAST REINF CONC
FLARED END SECTION, 42"
INV 590.11

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

CONSTRUCTION LIMITS

PR ROW

AC

N

0 50 100
SCALE IN FEET

NOTE: THE PR PROFILE GRADE LINE
IS LOCATED AT THE MEDIAN EDGE
OF THE TRAVELED WAY

PROFILE

SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. NOTED
STRUCTURE NO
CPKD
NOTE BOOK
NO.
BY
DATE

PR PROFILE GRADE LINE

+1.00%, -0.50%

CPT: C730
STA 730+00
@ 37.5' LT

Su	Grd
SF	592.90
SENSITIVE FINE GRAINED	591.75
	586.75
SILTY SAND	585.70
	584.50
	584.10
CLAY & SILTY CLAY	583.40
	582.60
SENSITIVE FINE GRAINED	582.00

+1.00%

SD RT 1.02%

CLAY & SILTY CLAY 1.5

SD RT -0.50%

STA. 731+00.00
SD RT
ELEV. 591.31

EX GROUND LINE AT PR ℄ IL 97

STA. 733+40.00
SD RT
ELEV. 590.11

CPT: C735
STA 735+00
@ 37.5' RT

Su	Grd
SF	593.80
	592.80
SENSITIVE FINE GRAINED	591.70
2.0	590.30
2.0	589.80
1.7	589.50
1.3	588.80
1.8	588.00
	586.25
SILTY SAND	583.80
0.8	583.70
0.7	583.45
CLAY & SILTY CLAY	583.00
SILTY SAND	

-0.50%

SD RT 0.35%

SD RT 0.45%

610 605 600 595 590 585 580 575 570

586.64 591.50	588.36 592.00	589.29 592.50	590.32 593.00	591.56 593.50	592.13 594.00	592.53 594.50	592.99 595.00	593.89 595.48	593.45 595.91	593.85 596.29	593.65 596.63	593.29 596.91	592.33 597.16	591.38 597.35	590.58 597.50	591.55 597.60	593.03 597.66	593.52 597.66	593.77 597.63	593.24 597.54	592.59 597.41	591.49 597.23	591.43 597.00	592.98 596.75	594.10 596.50	594.16 596.26
726+00			727+00		728+00		729+00		730+00		731+00		732+00		733+00		734+00		735+00		736+00		737+00		738+00	

Hutchison Engineering, Inc.
Since 1945
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = JWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

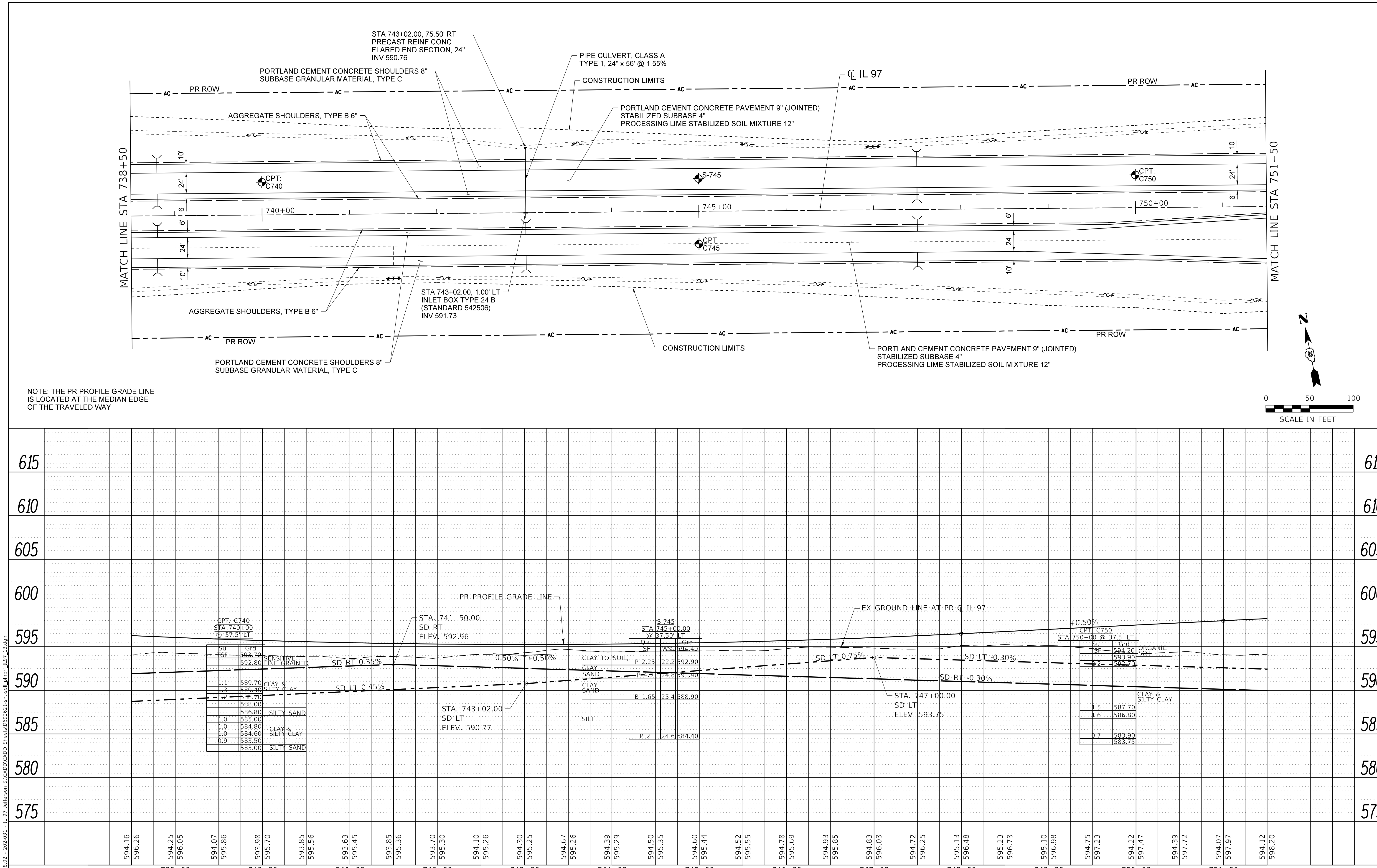
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 3 OF 20 SHEETS | STA. 725+50.00 TO STA. 738+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	84
		CONTRACT NO. 92621		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-sdll phlprf IL97 12.dgn



PLAN | NOTE BOOK NO.____ | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

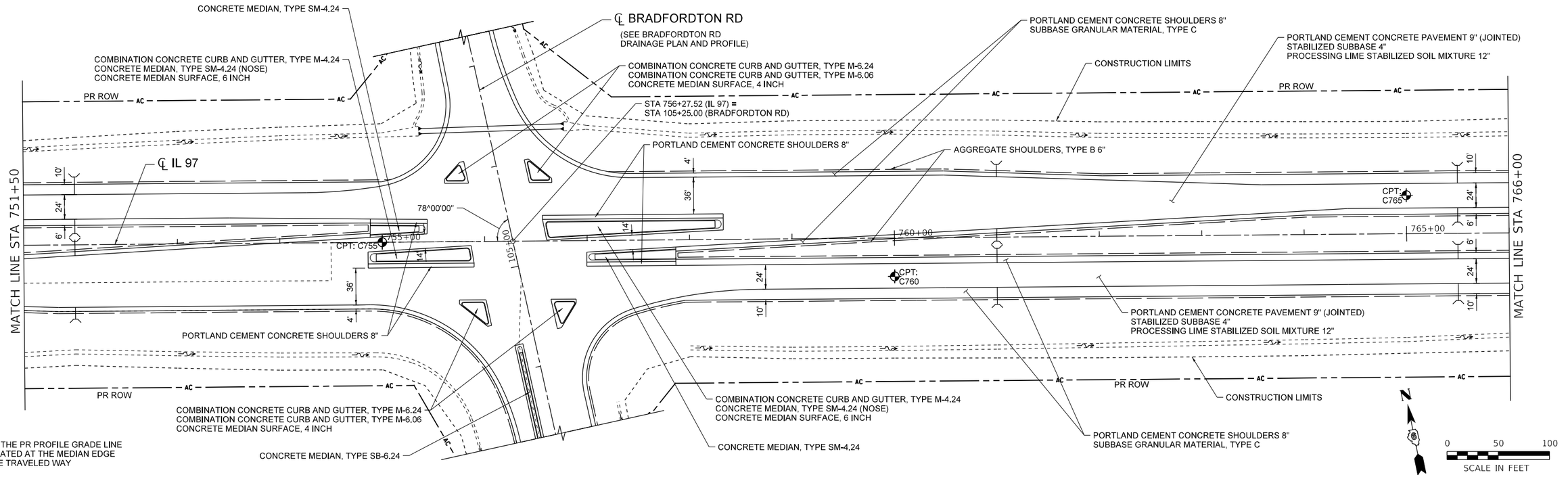
PROFILE | NOTE BOOK NO.____ | SURVEYED | PLOTTED | GRADES CHECKED | BL. NOTED | STRUCTURE NOTATNS CHK'D | BY | DATE

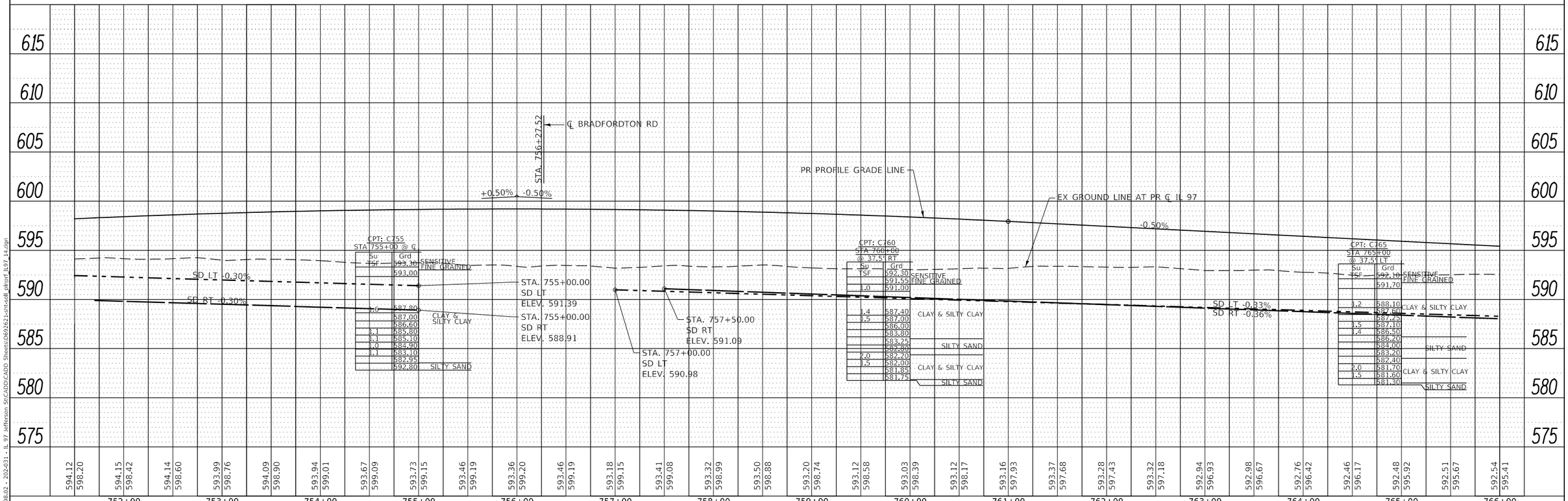
MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\d692621-sht-soil_plnprf_IL97_13.dgn

Since 1945
Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = lWhite	DESIGNED - JB	REVISED -	STATE OF ILLINOIS	IL 97
	DRAWN - RG	REVISED -	DEPARTMENT OF TRANSPORTATION	SOIL PLAN AND PROFILE
PLOT SCALE = 100.0000 ' / in.	CHECKED - FNB	REVISED -		
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -		SCALE: 1" = 50' SHEET 4 OF 20 SHEETS STA. 738+50.00 TO STA. 751+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	85
		CONTRACT NO. 92621		
		ILLINOIS FED. AID PROJECT		





Hutchison Engineering, Inc. (Since 1945; JACKSONVILLE • PEORIA • SHOREWOOD; CARBONDALE • MOLINE; Illinois Professional Design Firm No. 184-000825)	USER NAME = JWhite	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 97 SOIL PLAN AND PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RG	REVISED -			67	S(X) & W(X,TS)	SANGAMON	357	86
	PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -					CONTRACT NO. 92621		
2023	PLOT DATE = 6/12/2021	DATE - 03/12/2021	REVISED -		SCALE: 1" = 50' SHEET 5 OF 20 SHEETS STA. 751+50.00 TO STA. 766+00.00			ILLINOIS	FED. AID PROJECT	

JOB# 4998.02

MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-sedl phlprf IL97 14.dgn

NOTE: THE PR PROFILE GRADE LINE IS LOCATED AT THE MEDIAN EDGE OF THE TRAVELED WAY

EX ℄ MOORE RD
(SEE MOORE RD PLAN AND PROFILE)

CONSTRUCTION LIMITS

PR ROW

PIPE CULVERT, CLASS A TYPE 1, 24" x 21' @ 1.23%

MATCH LINE STA 766+00

STA 770+25.00, 90.50' LT
PRECAST REINF CONC FLARED END SECTION, 30"
INV 587.00

PIPE CULVERT, CLASS A TYPE 2, 30" x 81' @ 0.28%

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

AGGREGATE SHOULDERS, TYPE B 6"

℄ IL 97

CPT: C775

775+00

S-775

CPT: C770

770+00

CURVE IL974

EX ROW

STA 770+25.00, 0.00' LT/RT
REINF CONC PIPE TEE
30" PIPE x 24" RISER

STA 770+25.00, 85.50' RT
PRECAST REINF CONC FLARED END SECTION, 30"
INV 586.50

STA 770+00.00, 0.00' LT/RT
FLUSH INLET BOX FOR MEDIAN
RIM 590.38
INV 587.30

PIPE CULVERT, CLASS A TYPE 2, 30" x 76' @ 0.28%

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

STA 779+00.00, 0.00' LT/RT
FLUSH INLET BOX FOR MEDIAN
RIM 594.38
INV 591.40

PIPE CULVERT, CLASS A TYPE 2, 24" x 80' @ 0.60%

780+00

CPT: C780

MATCH LINE STA 780+50

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

STA 779+00.00, 88.50' RT
PRECAST REINF CONC FLARED END SECTION, 24"
INV 590.88

SCALE IN FEET
0 50 100

PROFILE

-0.50%

+0.50%

SD LT -0.33%
SD RT -0.36%

SD LT 0.50%
SD RT 0.50%

EX GROUND LINE AT PR ℄ IL 97

PR PROFILE GRADE LINE

STA. 770+25.00
SD LT
ELEV. 587.00

STA. 770+25.00
SD RT
ELEV. 586.50

CPT: C770
STA 770+00
@ 37.5' RT

Su TSF	Grd
	591.90 SENSITIVE FINE GRAINED
	591.50
1.4	588.20
1.5	587.60
1.5	586.60 CLAY & SILTY CLAY
	586.30
	586.10
	585.50
	585.30
1.4	584.90
1.9	583.10
	581.50
	581.30 SILTY SAND

S-775
STA 775+00.00
@ 37.5' RT

Qu TSF	Grd W%	
		592.70 CLAY TOPSOIL
P 1.5	25.4	591.20 CLAY
		SAND
B 1.61	28.1	587.20
		SILT
P 1	24.8	582.70

CPT: C780
STA 780+00
@ 37.5' RT

Su TSF	Grd
	595.50 SENSITIVE FINE GRAINED
	594.45
1.4	589.10 CLAY & SILTY CLAY
	588.60
	586.75
0.7	585.40 SILTY SAND
1.0	585.00 CLAY & SILTY CLAY
	584.80
	584.60 SILTY SAND

615 610 605 600 595 590 585 580 575

766+00	767+00	768+00	769+00	770+00	771+00	772+00	773+00	774+00	775+00	776+00	777+00	778+00	779+00	780+00
592.54 595.41	592.25 595.16	592.11 594.91	591.81 594.66	591.93 594.41	592.05 594.19	592.20 594.03	592.33 593.93	592.62 593.90	592.17 593.93	591.99 594.03	591.75 594.18	592.12 594.40	592.32 594.65	592.62 594.90	592.69 595.15	592.89 595.40	593.21 595.65	593.26 595.90	593.43 596.15	593.48 596.40	593.49 596.65	593.62 596.90	593.82 597.15	593.97 597.40	594.57 597.65	594.90 597.90	595.23 598.15	595.84 598.40	596.33 598.65

Hutchison Engineering, Inc.	USER NAME = JWhite	DESIGNED - JB	REVISED -	
Since 1945		DRAWN - RG	REVISED -	
JACKSONVILLE • PEORIA • SHOREWOOD CARBONDALE • MOLINE	PLOT SCALE = 100.0000 ' / in.	CHECKED - FNB	REVISED -	
Illinois Professional Design Firm No. 184-000825	PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -	
2023	JOB# 4998.02			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 6 OF 20 SHEETS | STA. 766+00.00 TO STA. 780+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	87
		CONTRACT NO. 92621		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-soil_phrof_IL97_15.dgn

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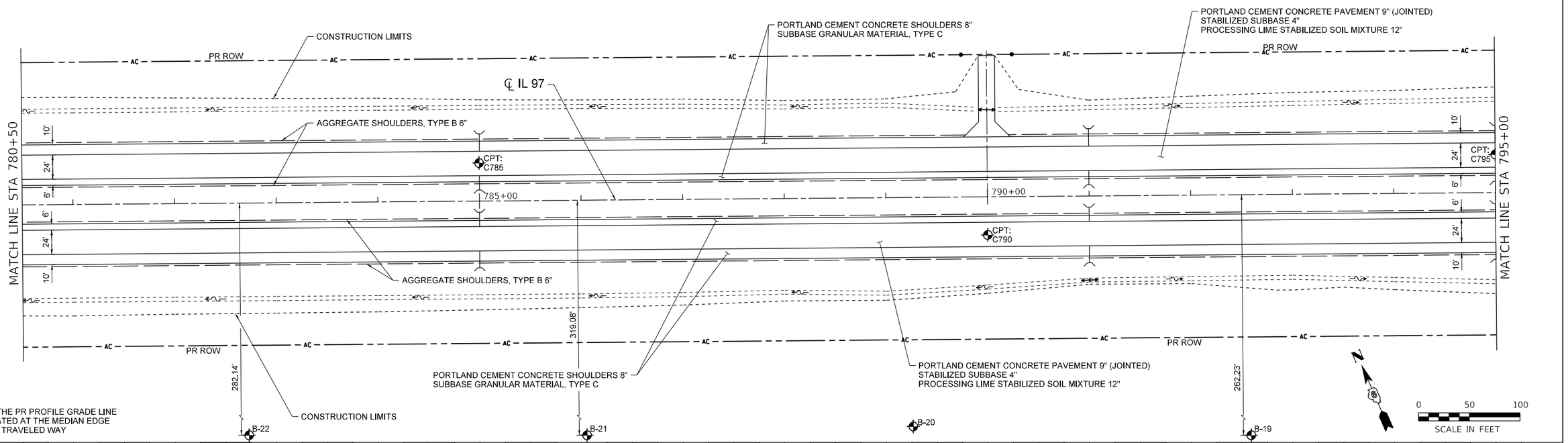
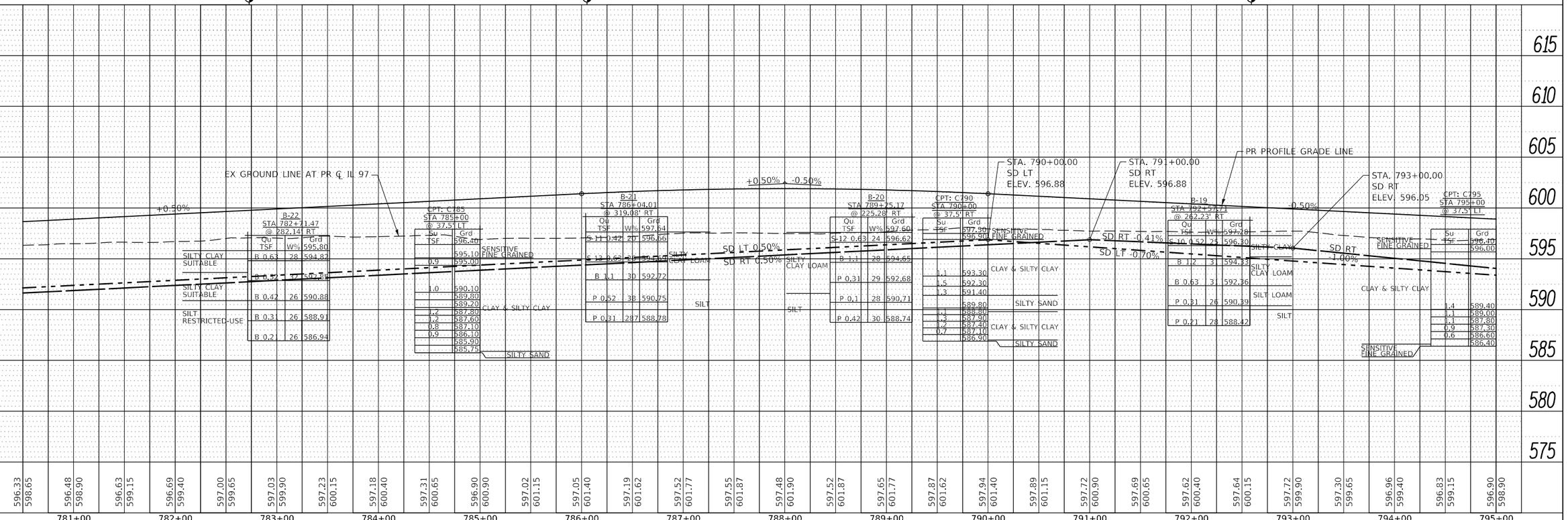
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE





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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

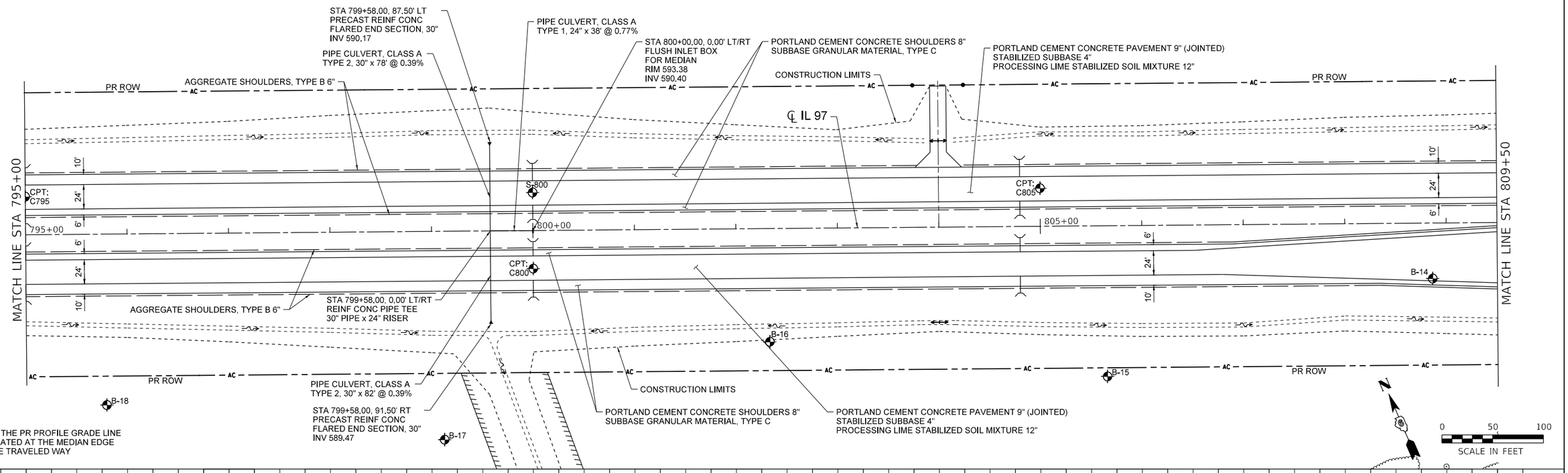
USER NAME = JWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

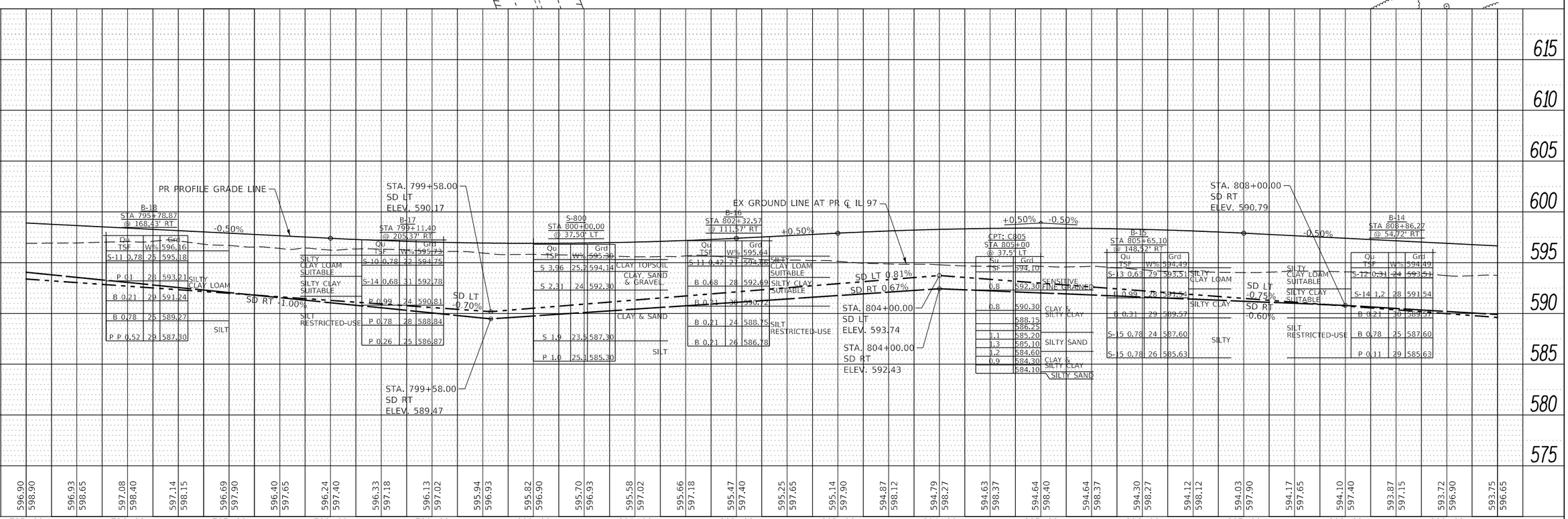
IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 7 OF 20 SHEETS | STA. 780+50.00 | TO STA. 795+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	88
		CONTRACT NO. 92621		
	ILLINOIS	FED. AID PROJECT		



NOTE: THE PR PROFILE GRADE LINE IS LOCATED AT THE MEDIAN EDGE OF THE TRAVELED WAY



PLAN: SURVEYED; PLOTTED; ADDENDUM CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE: SURVEYED; PLOTTED; ADDENDUM CHECKED; B.M. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

MODEL: Default
FILE NAME: V:\4998.02 - 202431 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-soil plan pf_IL97_17.dgn

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Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = JWhite	DESIGNED - JB	REVISED -	
	DRAWN - RG	REVISED -	
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -	
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 8 OF 20 SHEETS | STA. 795+00.00 TO STA. 809+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	89
		CONTRACT NO. 92621		
	ILLINOIS	FED. AID PROJECT		

STA 811+00.00, 90.00' LT
PRECAST REINF CONC
FLARED END SECTION, 24"
INV 588.49

PR ROW

PIPE CULVERT, CLASS A
TYPE 2, 24" x 72' @ 1.12%

MATCH LINE STA 809+50

10'
24'
6'

810+00

CPT:
C810

B-13

STA 811+00.00, 9.96' LT
FLUSH INLET BOX
FOR MEDIAN
RIM 594.37
INV 589.37

℄ HAZLETT RD
(SEE HAZLETT RD
PLAN AND PROFILE)

NOTE: THE PR PROFILE GRADE LINE
IS LOCATED AT THE MEDIAN EDGE
OF THE TRAVELED WAY

STA 813+48.04 (IL 97) =
STA 400+00.00 (HAZLETT RD)

CONSTRUCTION LIMITS

75^00'00"

CPT:
C815

815+00

B-12

EX ROW

℄

EX ROW

CONSTRUCTION LIMITS

℄ IL 97

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

CURVE IL975

820+00

B-11

CPT:
C820

AGGREGATE SHOULDERS, TYPE B 6"

PR ROW

STA 821+49.89, 96.00' LT
PRECAST REINF CONC
FLARED END SECTION, 42"
INV 580.61

PIPE CULVERT, CLASS A
TYPE 2, 24" x 93' @ 1.73%

PR ROW

AGGREGATE SHOULDERS, TYPE B 6"

B-10

MATCH LINE STA 824+00

PIPE CULVERT, CLASS A
TYPE 2, 42" x 198' @ 1.23%

STA 824+00.00, 0.00' LT/RT
FLUSH INLET BOX
FOR MEDIAN
RIM 586.38
INV 581.38

STA 824+00.00, 101.00' RT
PRECAST REINF CONC
FLARED END SECTION, 24"
INV 579.66

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

PR ROW

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

STA 822+27.00, 105.00' RT
PRECAST REINF CONC
FLARED END SECTION, 42"
INV 577.96

EX ROW

BM D2275-14

N

0 50 100
SCALE IN FEET

BM D2275-14
SET CHSLD "2" CTR N HDWL
STA 822+71.82, 176.71' RT
ELEV 581.86

PROFILE

PR PROFILE GRADE LINE

℄ HAZLETT RD

STA. 813+48.04

CPT: C810
STA 810+00
@ 37.5' RT
Su TSF | Grd
593.40
591.80
1.5 591.50
587.25
585.70
585.10
584.50
1.2 583.90
1.0 583.70
583.40

SENSITIVE FINE GRAINED
CLAY & SILTY CLAY
SILTY SAND
CLAY & SILTY CLAY
SILTY CLAY
SILTY SAND

SD RT -0.60%

B-13
STA 812+18.80
@ 91.66' RT
Qu TSF | W% | Grd
S-13 0.52 31 587.78
S-14 0.89 28 584.81
B 0.68 30 582.84
B 0.52 27 580.87
P 0.42 26 578.90
576.93

SILTY CLAY LOAM SUITABLE
SILTY CLAY SUITABLE
SILT RESTRICTED-USE

SD RT -0.50%
SD LT -0.75%

STA. 813+00.00
SD RT
ELEV. 587.80

CPT: C815
STA 815+00
@ 37.5' LT
Su TSF | Grd
592.30
591.15
2.4 590.00
2.0 588.50
1.2 587.90
1.5 587.30
586.80
586.70
586.20
584.70
582.60
582.20

SENSITIVE FINE GRAINED
CLAY & SILTY CLAY
SILTY SAND
CLAY & SILTY CLAY
SILTY SAND

B-12
STA 815+39.97
@ 2.02' LT
Qu TSF | W% | Grd
592.39
S-12 0.52 19 591.41
S-12 0.52 30 589.44
B 0.42 32 587.47
P 0.31 27 585.50
P 0.42 26 583.53

SILTY CLAY LOAM SUITABLE
SILTY CLAY SUITABLE
SILT RESTRICTED-USE

STA. 816+00.00
SD RT
ELEV. 586.30

-0.50%

EX GROUND LINE AT PR ℄ IL 97

SD RT -0.33%
SD LT -0.75%

B-11
STA 818+70.51
@ 23.56' RT
Qu TSF | W% | Grd
586.22
S-13 0.99 27 585.24
B 0.78 26 583.27
B 0.68 26 581.30
P 0.31 32 579.33
P 0.78 27 577.36

SILTY CLAY LOAM SUITABLE
SILTY CLAY SUITABLE
SILT RESTRICTED-USE

CPT: C820
STA 820+00
@ 37.5' RT
Su TSF | Grd
584.90
584.40
583.50
582.75
581.25
580.50
1.5 579.90
0.6 575.80
574.75
574.60

SENSITIVE FINE GRAINED
SILTY SAND
CLAY & SILTY CLAY
SILTY SAND
CLAY & SILTY CLAY
SILTY SAND

STA. 820+50.00
SD RT
ELEV. 584.80

+0.50%

B-10
STA 821+95.94
@ 41.94' LT
Qu TSF | W% | Grd
585.01
S-10 0.42 31 584.03
B 0.31 25 582.06
B 0.57 23 580.09
B 1.72 23 578.12
P 0.99 23 576.15

SILTY CLAY SUITABLE
SILT RESTRICTED-USE

-0.50%

SD RT -0.60%

STA. 821+50.00
SD LT
ELEV. 580.61

SD LT 0.30%

SD RT 1.00%

STA. 822+30.00
SD RT
ELEV. 577.96

605 600 595 590 585 580 575 570 565

593.75 596.65 | 593.45 596.40 | 593.59 596.15 | 593.73 595.90 | 593.34 595.65 | 593.09 595.40 | 593.25 595.15 | 592.40 594.90 | 593.59 594.65 | 593.15 594.40 | 593.04 594.15 | 592.52 593.90 | 591.88 593.65 | 591.37 593.40 | 590.26 593.15 | 589.33 592.90 | 587.98 592.65 | 587.09 592.40 | 586.45 592.15 | 585.56 591.90 | 584.83 591.65 | 584.16 591.40 | 582.81 591.15 | 582.82 590.90 | 582.83 590.65 | 583.32 590.40 | 584.22 590.18 | 586.24 590.02 | 586.80 589.93 | 584.97 589.90

810+00 811+00 812+00 813+00 814+00 815+00 816+00 817+00 818+00 819+00 820+00 821+00 822+00 823+00 824+00

Hutchison Engineering, Inc. (Since 1945; JACKSONVILLE • PEORIA • SHOREWOOD; CARBONDALE • MOLINE; Illinois Professional Design Firm No. 184-000825) 2023 JOB# 4998.02	USER NAME = JWhite	DESIGNED - JB	REVISED -
		DRAWN - RG	REVISED -
	PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
	PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE
SCALE: 1" = 50' | SHEET 9 OF 20 SHEETS | STA. 809+50.00 TO STA. 824+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	90
		CONTRACT NO. 92621		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED BY
PLOTTED DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
SURVEYED BY
PLOTTED DATE
ALIGNMENT CHECKED
B.M. NOTED
STRUCTURE NO(TA/TS CHKD

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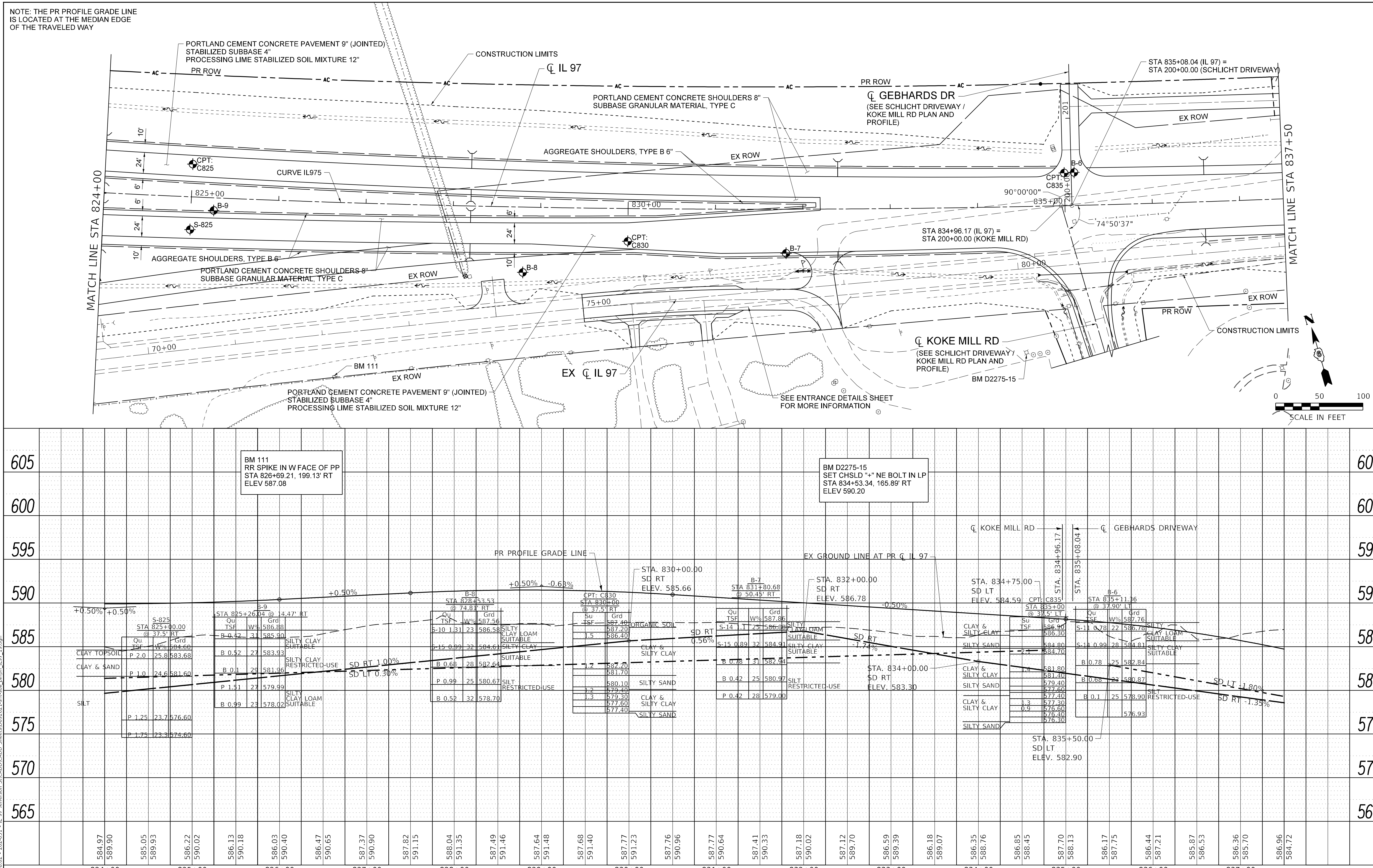

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Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = lWhite	DESIGNED - JB	REVISED -	
	DRAWN - RG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - FNB	REVISED -	
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 10 OF 20 SHEETS | STA. 824+00.00 TO STA. 837+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	91
		CONTRACT NO. 92621		
		ILLINOIS FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

℄ GEBHARDS DRIVEWAY
(SEE GEBHARDS DRIVEWAY PLAN AND PROFILE)

TEMPORARY EASEMENT

EX ROW

CURVE IL975

S-840

B-3

B-5

CPT: C844

℄ SANGAMON VALLEY TRAIL
(SEE SANGAMON VALLEY TRAIL PLAN AND PROFILE)

STA 844+70.00, 58.83' LT
PRECAST REINF CONC
FLARED END SECTION, 36" EQRS
INV 559.79

PIPE CULVERT, CLASS A
TYPE 2, 36" EQRS x 94' @ 1.77%

CONSTRUCTION LIMITS

S-845

B-3

SN 084-7007

CPT: C843

83^17'20"

℄ IL 97

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

CURVE IL976

STA 848+50.00, 45.00' RT
MANHOLE, TYPE A, 5' DIA
TYPE 1 FRAME, CLID
RIM 569.12
INV 553.70 (W)
INV 553.60 (E)

S-850

B-2

B-1

STORM SEWER, CLASS A
TYPE 3, 36" x 374' @ 1.15%

EX ℄ IL 97

EX ROW

PR ROW

STORM SEWER, CLASS A
TYPE 5, 36" x 284' @ 1.14%

MATCH LINE STA 837+50

MATCH LINE STA 851+00

STA 843+72.88 (IL 97) =
STA 1187+96.23 (SANGAMON VALLEY TRAIL)

STA 844+70.00, 45.00' RT
MANHOLE, TYPE A, 5' DIA
TYPE 1 FRAME, CLID
RIM 563.50
INV 558.00 (N,E)
INV 559.00 (S)

PIPE CULVERT, CLASS A
TYPE 1, 36" EQRS x 5' @ 1.13%

STA 844+70.00, 60.83' RT
PRECAST REINF CONC
FLARED END SECTION, 36" EQRS
INV 559.15

STA 848+39.00, 61.25' RT
PRECAST REINF CONC
FLARED END SECTION, 24"
INV 565.46

PIPE CULVERT, CLASS A
TYPE 2, 24" x 86' @ 1.55%

TEMPOPARY EASEMENT

STA 849+38.00, 63.25' RT
PRECAST REINF CONC
FLARED END SECTION, 24"
INV 566.99

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

NOTE: THE PR PROFILE GRADE LINE IS LOCATED AT THE INSIDE EDGE OF THE TRAVELED WAY

0 50 100
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5' CHECKED
B.M.: NOTED
STRUCTURE NO
TA'NS CHKD
NOTE BOOK
NO.

B-5
STA 838+38.69
@ 7.25' LT

	Qu TSF	W%	Grd	
P	0.82	24	580.58	SILTY CLAY LOAM SUITABLE
S-10	0.42	24	580.61	
S-12	0.68	24	580.64	SILTY CLAY LOAM SUITABLE
S-11	0.78	24	580.67	
P	0.52	26	578.70	SILT RESTRICTED-USE
			576.70	

S-840
STA 840+25.00
@ 55.00' LT

	Qu TSF	W%	Grd	
S	3.42	21.6	586.10	
S	3.42	21.6	585.27	CLAY TOPSOIL
S	3.42	21.6	583.10	CLAY & SAND
P	0.5	15.1	581.60	
P	1.25	14.9	578.10	SILT RESTRICTED-USE
S	2.1	22.9	570.10	CLAY & SAND
S	1.81	22.1	565.60	CLAY, SAND & GRAVEL
P	9.0	14.1	561.10	SILT

B-4
STA 841+66.17
@ 35.99' LT

	Qu TSF	W%	Grd	
B	0.68	29	583.93	SILTY CLAY SUITABLE
S-11	1.1	26	581.96	
B	0.21	24	579.99	
B	0.1	28	578.02	SILT RESTRICTED-USE
P	0.68	26	576.05	
P	0.63	24	574.08	SILTY CLAY SUITABLE

CPT: C843
STA 843+00
@ 14.0' LT

Su TSF	Grd	
586.30		CLAY & SILTY CLAY
585.30		
583.90		SILTY SAND
		CLAY & SILTY CLAY
580.70		
		SILTY SAND
575.80		
2.9	575.70	CLAY & SILT VERY DENSE/ STIFF SOIL
1.8	566.90	
	565.75	
	565.40	SILTY SAND

CPT: C844
STA 844+00
@ 65.0' LT

Su TSF	Grd	
	575.10	ORGANIC SOIL, CLAY & SILTY CLAY
	574.70	
	573.90	SILTY SAND
2.4	564.40	
	563.10	SILTY SAND
	560.75	VERY DENSE /STIFF SOIL
	560.60	SAND

S-845
STA 845+45.00
@ 65.00' LT

	Qu TSF	W%	Grd	
P	1.25	26.8	584.80	CLAY TOPSOIL
P	7.5	14.8	582.30	CLAY
B	1.11	21.5	576.80	SILT CLAY LOAM SAND & GRAVEL SUITABLE
S	1.4	23	572.80	CLAY & SAND
S	2.27	26.7	567.30	CLAY, SAND, & GRAVEL
P	5.0	9.8	560.30	SILT & GRAVEL

B-2
STA 848+21.84
@ 53.36' LT

	Qu TSF	W%	Grd	
S-12	1.2	28	570.13	SILTY CLAY LOAM SUITABLE
B	1.2	22	568.18	
B	1.4	25	566.7	CLAY LOAM SUITABLE
S-13	1.51	16	564.24	
B	1.72	15	562.27	

S-850
STA 850+00.00
@ 65.00' LT

	Qu TSF	W%	Grd	
S	4.33	19.4	582.68	CLAY TOPSOIL
				SILTY CLAY LOAM SAND & GRAVEL SUITABLE
S	2.06	21.4	575.10	
				SILTY CLAY SAND
S	1.61	21.6	570.10	
				CLAY & SAND
S	2.1	25.3	562.60	
P	5.25	9.5	558.10	SILT

EX GROUND LINE AT PR ℄ IL 97

℄ SANGAMON VALLEY TRAIL

PR PROFILE GRADE LINE

EX GROUND LINE AT EX ℄ IL 97

0.63%
-4.17%
STA. 838+00.00
SD LT
ELEV. 578.40
STA. 838+00.00
SD RT
ELEV. 577.90
SD LT -1.80%
SD RT -1.35%
SD LT -3.10%
SD RT -3.00%
SD LT -2.30%
SD RT -2.50%
STA. 842+00.00
SD LT
ELEV. 566.00
STA. 842+00.00
SD RT
ELEV. 565.90
STA. 844+70.00
SD RT
ELEV. 559.15
STA. 844+70.00
SD LT
ELEV. 559.79
SD RT 2.00%
SD LT 1.60%
SD RT 1.55%
STA. 846+00.00
SD RT
ELEV. 561.75
2.07%

595 590 585 580 575 570 565 560 555

586.96 584.72 | 587.04 583.59 | 587.05 582.31 | 587.09 580.89 | 586.66 579.32 | 585.84 577.60 | 582.82 575.74 | 580.58 573.72 | 578.17 571.77 | 576.41 570.07 | 574.33 568.63 | 573.18 567.46 | 573.41 566.54 | 570.44 565.88 | 569.00 565.48 | 569.14 565.35 | 569.39 565.47 | 569.56 565.85 | 569.87 566.50 | 569.83 567.40 | 569.87 568.43 | 570.40 569.47 | 571.37 570.50 | 572.40 571.53 | 573.29 572.57 | 574.05 573.54 | 574.72 574.40 | 575.30 575.15

838+00 839+00 840+00 841+00 842+00 843+00 844+00 845+00 846+00 847+00 848+00 849+00 850+00 851+00

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FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D69262-1-sht-sdl phlprf IL97 20.dgn

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Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

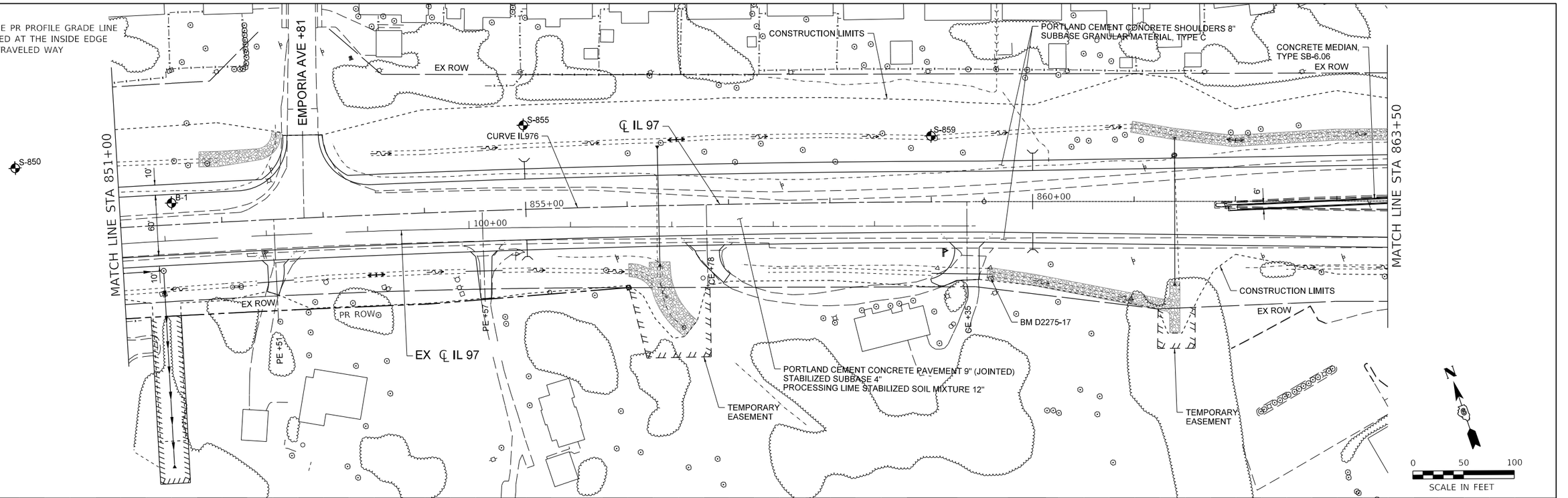
USER NAME = JWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

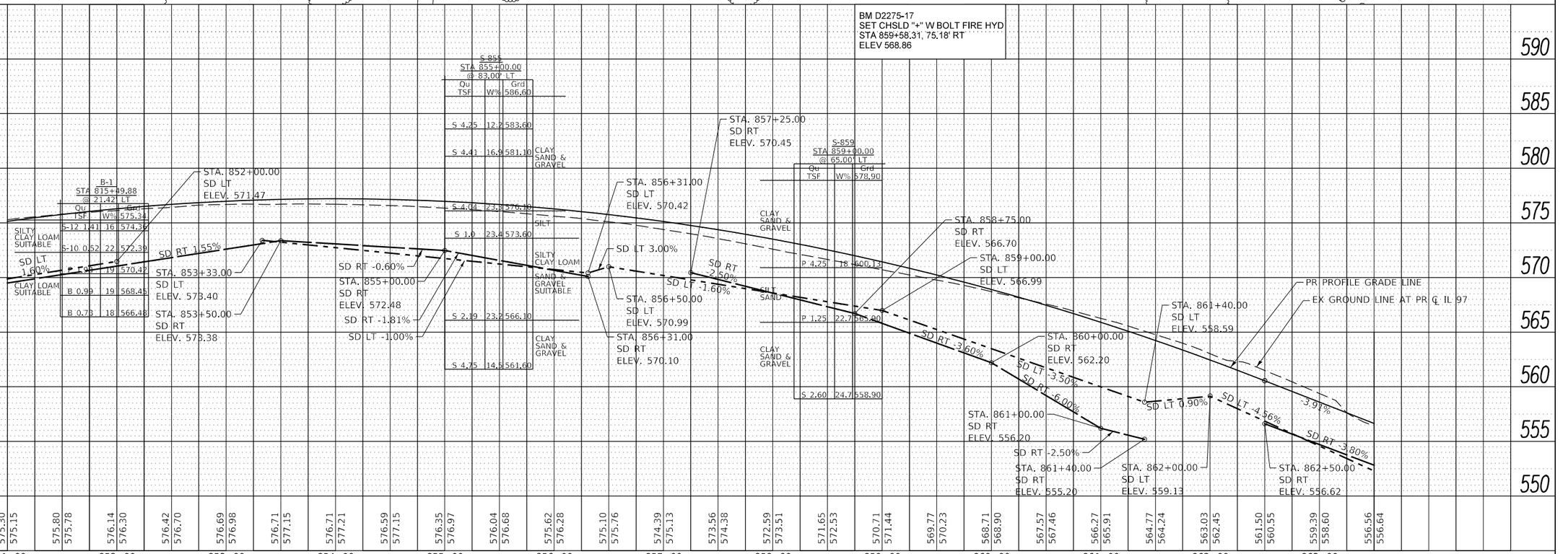
IL 97
SOIL PLAN AND PROFILE
SCALE: 1" = 50' | SHEET 11 OF 20 SHEETS | STA. 837+50.00 TO STA. 851+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	92
		CONTRACT NO. 92621		
	ILLINOIS FED. AID PROJECT			

NOTE: THE PR PROFILE GRADE LINE IS LOCATED AT THE INSIDE EDGE OF THE TRAVELED WAY



BM D2275-17
SET CHSLD "+" W BOLT FIRE HYD
STA 859+58.31, 75.18' RT
ELEV 568.86



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHECKED
B.M. NOTED
STRUCTURE NO
TA'NS CP'KD
NOTE BOOK
NO.
BY
DATE

MODEL: Default
FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-sht-sedl plnprf IL97 21.dgn

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Illinois Professional Design Firm No. 184-000825
2023 JOB# 4998.02

USER NAME = JWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 12 OF 20 SHEETS | STA. 851+00.00 TO STA. 863+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	93
		CONTRACT NO. 92621		
	ILLINOIS	FED. AID PROJECT		

NOTE: THE PR PROFILE GRADE LINE IS LOCATED AT THE MEDIAN EDGE OF THE TRAVELED WAY

WINCH LN +84

PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
STABILIZED SUBBASE 4"
PROCESSING LIME STABILIZED SOIL MIXTURE 12"

EX ROW

CONCRETE MEDIAN, TYPE SB-6.06

CONSTRUCTION LIMITS

℄ IL 97

END PROJECT
STA 867+61.00

CURVE IL977

870+00

875+00

MATCH LINE STA 863+50

10'

30'

6'

36'

10'

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
CONCRETE MEDIAN PAVEMENT, 4 INCH

END OF MEDIAN TO BE CONSTRUCTED
STA 871+00.00

EX ℄ VETERANS PKWY

1225+00

EX ROW

STA 866+93.64
PIPE CULVERT, CLASS D
TYPE X, XX" x XX' @ X.XX%
US INV XXX.XX, STA XXX+XX.XX, XX.XX RT
DS INV XXX.XX, STA XXX+XX.XX, XX.XX RT

CE +31

CE +94

STA 864+31.04
PIPE CULVERT, CLASS D
TYPE X, XX" x XX' @ X.XX%
US INV XXX.XX, STA XXX+XX.XX, XX.XX RT
DS INV XXX.XX, STA XXX+XX.XX, XX.XX RT

PERMANENT EASEMENT

TEMPORARY EASEMENT

CONSTRUCTION LIMITS

PORTLAND CEMENT CONCRETE SHOULDERS 8"
SUBBASE GRANULAR MATERIAL, TYPE C

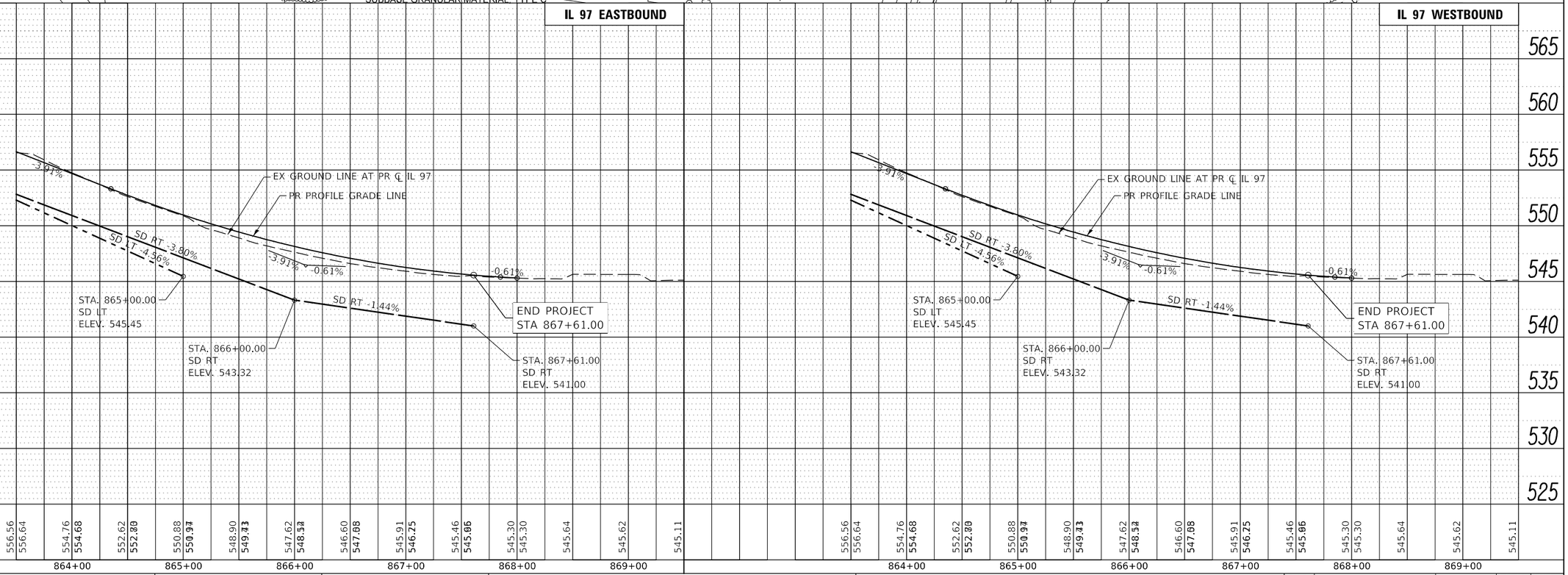
CREEK

N

0 50 100
SCALE IN FEET

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.



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FILE NAME: V:\4998.02 - 202-031 - IL 97 Jefferson St\CADD\CADD Sheets\D692621-eit-sdl plnprf IL97 22.dgn

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USER NAME = lWhite	DESIGNED - JB	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - FNB	REVISED -
PLOT DATE = 6/12/2023	DATE - 03/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 97
SOIL PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 13 OF 20 SHEETS | STA. 863+50.00 TO STA. 874+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	S(X) & W(X,TS)	SANGAMON	357	94
		CONTRACT NO. 92621		
	ILLINOIS	FED. AID PROJECT		

Appendix A.5 Soil Borings

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/4/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 16, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-670
Station 670+00
Offset 37.5ft RT
Ground Surface Elev. 586.7 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
▽ **First Encounter** DRY ft
▽ **Upon Completion** DRY ft
▼ **After** _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
30" CLAY TOPSOIL, Dark Brown and Black, Very Stiff, Moist (A-7-5)		4		
		4	3.38	19.8
584.20		4	S	
CLAY, Dark Brown and Brown, Trace Sand, Very Stiff, Moist (A-6) (Transitional Material)				
		3		
		4	2.8	22.7
	-5	5	S	
581.20				
CLAY, Brown and Gray, Trace Sand and Gravel, Stiff, Moist (A-6)				
		4		
		4	1.86	24.5
		4	B	
		3		
		4	1.4	25.3
576.70	-10	4	B	
End of Boring at 10 Feet.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

File Name I:\REPORTS\GEOTECH\IDOT\12444G VARIOUS, DISTRICT 6\GINT TEMPLATE\12444G-IDOT ROADWAY BORINGS.GPJ Data Template D6TEMPLT.GDT Date Printed 2/9/21
Latitude 39.831544 Longitude -89.769701 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/4/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 22, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-695
Station 695+00
Offset 37.5ft LT
Ground Surface Elev. 599.2 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
18" CLAY TOPSOIL, Black, Very Stiff, Moist				
(A-7-5) 597.70		3	2.75 P	20.4
CLAY, Dark Brown and Brown, Hard, Moist		4 5		24.6
(A-6) 596.20			4.25 P	
CLAY, Brown, Gray, Trace Dark Brown, Stiff, Moist				
(A-6)		3		
		2	1.2	24.9
	-5	2	B	
593.70				
SILT, Brown and Gray, Loose, Moist				
		2		
(A-4)		3	1.75	22.7
		3	P	
		3		
		3	2.25	23.4
589.20	-10	4	P	
End of Boring at 10 Feet.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

File Name I:\REPORTS\GEOTECH\IDOT\12444G VARIOUS, DISTRICT 6\GINT TEMPLATE\12444G-IDOT ROADWAY BORINGS.GPJ Data Template D6TEMPLT.GDT Date Printed 2/9/21
Latitude 39.829775 Longitude -89.761124 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/4/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 22, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-720
Station 720+00
Offset 37.5ft RT
Ground Surface Elev. 583.5 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
▽ **First Encounter** DRY ft
▽ **Upon Completion** DRY ft
▼ **After** _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
7" CLAY TOPSOIL, Dark Brown (A-7-5) 582.92				
CLAY, Brown, Trace Dark Brown, Trace Sand, Hard to Very Stiff, Moist (A-6)		4		
		4 5	4.62 S	16.5
		5		
	-5	6 7	3.88 S	13.3
578.00				
CLAY, Brown and Gray, Trace Sand and Gravel, Hard, Moist (A-6)		6		
		7 7	4.12 S	13.2
		6		
573.50	-10	8 10	4.37 S	14.4
End of Boring at 10 Feet.	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

File Name I:\REPORTS\GEOTECH\IDOT\12444G VARIOUS, DISTRICT 6\GINT TEMPLATE\12444G-IDOT ROADWAY BORINGS.GPJ Data Template D6TEMPLT.GDT Date Printed 2/9/21
Latitude 39.828206 Longitude -89.752424 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 23, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-745
Station 745+00
Offset 37.5ft LT
Ground Surface Elev. 594.4 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After _____ **Hrs.** _____ ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				18" CLAY TOPSOIL, Black, Trace Roots, Very Stiff, Moist
	3	2.25 P	22.2	(A-7-5)
592.90				
	5			CLAY, Dark Brown, Brown and Gray, Trace Sand, Hard, Moist
	5	4.5 P	24.8	(A-6)
591.40				
				CLAY, Brown and Gray, Trace Sand, Stiff, Moist
	3			(A-6)
	3	1.65 B	25.4	
-5	4			
588.90				
				SILT, Brown and Gray, Loose, Moist
	3			(A-4)
	3	2 P	29.3	
	3			
	3			
	3	2 P	24.6	
584.40	3			
-10				End of Boring at 10 Feet.
-15				
-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.827065 Longitude -89.743638 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 23, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-775
Station 775+00
Offset 37.5ft RT
Ground Surface Elev. 592.7 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After _____ **Hrs.** _____ ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
18" CLAY TOPSOIL, Black, Stiff, Moist (A-7-5) 591.20	3	1.5 P	25.4	
CLAY, Dark Brown and Brown, Trace Sand, Hard to Stiff, Moist (A-6)	4 5		29.4	
		4.5 P		
	3			
	3	1.61	28.1	
-5	4	B		
587.20				
SILT, Brown and Gray, Loose, Moist (A-4)	4			
	4	1	23.8	
	4	P		
	3			
	4	1	24.8	
582.70 -10	4	P		
End of Boring at 10 Feet.				
-15				
-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.825068 Longitude -89.733319 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 24, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-800
Station 800+00
Offset 37.5ft LT
Ground Surface Elev. 595.3 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
▽ **First Encounter** DRY ft
▽ **Upon Completion** DRY ft
▼ **After** _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
14" CLAY TOPSOIL, Black				
(A-7-5) 594.14		5		
CLAY, Dark Brown and Brown, Trace Sand and Gravel, Very Stiff, Moist		5 7	3.96 S	25.2
(A-6) 592.30				
CLAY, Brown and Gray, Trace Sand, Very Stiff to Stiff, Moist		4		
(A-6)		4	2.31	24
	-5	5	S	
		3		
		3	1.9	23.5
		3	S	
587.30				
SILT, Brown and Gray, Loose, Moist		3		
(A-4)		4	1.0	25.1
585.30	-10	3	P	
End of Boring at 10 Feet.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.822556 Longitude -89.725029 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 24, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-825
Station 825+00
Offset 37.5ft RT
Ground Surface Elev. 584.6 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
▽ **First Encounter** DRY ft
▽ **Upon Completion** DRY ft
▼ **After** _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
11" CLAY TOPSOIL, Dark Brown (A-7-5) 583.68				
CLAY, Brown, Trace Dark Brown, Trace Sand, Very Stiff, Moist (A-6)		4 4 6	2.0 P	25.8
581.60				
SILT, Brown and Gray, Medium Dense, Moist (A-4)		4 5 5	1.0 P	24.6
	-5			
		3 5 5	1.25 P	23.7
576.60				
SILT, Gray, Medium Dense, Moist (A-4)		4 5 5	1.75 P	23.3
574.60	-10			
End of Boring at 10 Feet.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.819743 Longitude -89.716914 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/2/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 24, **TWP.** 16N, **RNG.** 6W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-840
Station 840+25
Offset 55.0ft LT
Ground Surface Elev. 586.1 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
▽ **First Encounter** DRY ft
▽ **Upon Completion** DRY ft
▼ **After** _____ **Hrs.** _____ ft

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
10" FILL: CLAY TOPSOIL, Dark Brown, Hard, Moist (A-7-5)	585.27			
		4		
FILL: CLAY, Dark Brown and Dark Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)	583.10	5 7	3.42 S	21.6
CLAY, Dark Gray and Brown, Medium, Moist (A-6)	581.60	2		
		2	0.5	15.1
SILT, Light Brown and Gray, Loose, Moist (A-4)	-5	3	P 1.25 P	19.8
		3		
		4 4	1.25 P	14.9
CLAY, Brown, Trace Gray, Trace Sand, Stiff to Very Stiff, Moist (A-6)	578.10			
		4		
		4 5	1.53 S	24.7
	-10			
		4		
		4 4	1.36 S	23.3
		3		
		4 5	2.25 P	24.6
	-15			
CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Stiff, Moist (A-6)	570.10	4		
		4 4	2.1 S	22.9
		4		
		5 5	1.81 S	22.1
	-20			

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	565.60			
SILT, Brown and Gray, Medium Dense, Moist (A-4)		5		
		5 7	3.01 S	14.6
		7		
		8 10	9.0 P	14.1
	561.10 -25			
End of Boring at 25 Feet.				
Note: 1. This boring was offset 25 feet east and 10 feet south from original location due to presence of trees.				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.818803 Longitude -89.711598 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 19, **TWP.** 16N, **RNG.** 5W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-845
Station 845+45
Offset 65.0ft LT
Ground Surface Elev. 585.3 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After _____ **Hrs.** _____ ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				5" FILL: CLAY TOPSOIL, Dark Brown (A-7-5) 584.88
	3			
	3	1.25	20.9	FILL: CLAY, Brown, Stiff, Moist (A-6)
	4	P		
				582.30
				FILL: SILTY CLAY LOAM, Brown and Gray, Trace Sand and Gravel, Medium Dense, Moist (A-6) (Combined Analysis Test, Lab #114)
	8			
	8	7.5	14.8	
-5	9	P		
	7			
	9	8.75	17.1	
	10	P		
				576.80
	3			FILL: CLAY, Brown, Trace Sand, Stiff, Moist (A-6)
	4	1.11	21.5	
-10	5	B		
	5			
	5	1.4	23	
	6	S		
				572.80
				CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Very Stiff, Moist (A-6)
	5			
	6	1.77	25	
-15	6	S		
	6			
	6	2.27	26.7	
	7	S		
				567.30
				SILT, Brown and Gray, Trace Gravel, Medium Dense to Extremely Dense, Moist to Dry (A-4)
	9			
	10	5.0	13.3	
-20	12	P		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				SILT, Brown and Gray, Trace Gravel, Medium Dense to Extremely Dense, Moist to Dry (A-4) *(continued)*
	50/2"			
	refusal		9.6	
	50/4"			
	refusal		9.8	
				560.30
-25				End of Boring at 25 Feet.
				Note:
				1. This boring was offset 45 feet east from original boring location due to presence of trees at original location.
				2. Total split spoon sampler refusal was encountered at approximately 21.16 feet and again at approximately 23.83 feet below the existing ground surface level and total hollow stem auger refusal was encountered at approximately 25 feet below the existing ground surface level.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.818536 Longitude -89.709785 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 19, **TWP.** 16N, **RNG.** 5W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO.
Station

BORING NO. S-850
Station 850+00
Offset 65.0ft LT
Ground Surface Elev. 583.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After Hrs. ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
582.68 5" CLAY TOPSOIL, Dark Brown (A-7-5)			
SILTY CLAY LOAM, Brown, Trace Dark Brown, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6(13))	7		
	7	4.33	19.4
	8	S	
(Standard Proctor Test-AASHTO T-99)			
(Combined Analysis and Atterberg Limits Tests, Lab #115)	5		
	5	2.35	22.3
-5	6	S	
	5		
	6	2.06	21.4
	5	S	
575.10			
SILTY CLAY, Brown, Trace Sand, Stiff, Moist (A-6)	4		
	5	1.57	22.5
-10	6	S	
	5		
	4	1.61	21.6
	4	S	
570.10			
CLAY, Brown and Gray, Trace Black, Trace Sand, Very Stiff, Moist (A-6)	6		
	6	3.25	21.4
-15	6	P	
	6		
	5	3.05	23.8
	7	S	
	5		
	5	2.1	25.3
-20	5	S	

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
562.60			
SILT, Brownish Gray, Medium Dense to Dense, Moist to Dry (A-4)			
	9		
	10	5.5	13.7
	11	P	
	12		
	18	5.25	9.5
558.10 -25	26	P	
End of Boring at 25 Feet.			
Note: 1. Proctor sample was taken from this boring from 1'-8'.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

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Latitude 39.818203 Longitude -89.708204 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/2/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 19, **TWP.** 16N, **RNG.** 5W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-855
Station 855+00
Offset 83.0ft LT
Ground Surface Elev. 586.6 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
FILL: CLAY, Dark Brown, Brown and Gray, Trace Sand and Gravel, Hard, Moist (A-6)		5		
		7	4.25	12.2
		7	S	
583.60				
FILL: CLAY, Brown, Trace Sand and Gravel, Hard, Moist (A-6)		11		
		10	4.41	16.9
	-5	13	S	
581.10				
CLAY, Brown, Trace Sand and Gravel, Very Stiff to Hard, Moist (A-6)		8		
		8	3.75	25.5
		11	P	
		9		
		10	4.04	23.3
	-10	12	S	
576.10				
SILT, Brown, Medium Dense, Moist (A-4)		7		
		7	1.0	23.4
		8	P	
573.60				
SILTY CLAY LOAM, Brown to Reddish Brown, Little Sand, Trace Gravel, Stiff to Very Stiff, Moist (A-6(11)) (Combined Analysis and Atterberg Limit Test, Lab #116)		4		
		5	1.44	21.4
	-15	5	S	
		4		
		4	1.53	21.7
		5	S	
		5		
		6	2.19	23.2
	-20	6	S	
566.10				
CLAY, Brown and Gray, Trace Sand and Gravel, Hard, Moist (A-6)		9		
		9	4.49	11.7
		11	S	
		7		
		10	4.74	14.5
561.60	-25	13	S	
End of Boring at 25 Feet.				
	-30			
	-35			
	-40			

Note:
1. This boring was offset 18 feet north from original location due to sloped ground.

2. Proctor sample was taken from this boring from 3'-10'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

File Name I:\REPORTS\GEOTECH\IDOT\12444G VARIOUS, DISTRICT 6\GINT TEMPLATE\12444G-IDOT ROADWAY BORINGS.GPJ Data Template D6TEMPLT.GDT Date Printed 2/9/21
Latitude 39.81783 Longitude -89.706481 Datum Job Number 12444G

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 11/3/20

ROUTE FAP 67, FAU 8049 **DESCRIPTION** IL-97/125 4 Lane Expressway **LOGGED BY** S.D.

SECTION S (X), W (X, TS) **LOCATION** Sangamon County, IL, **SEC.** 19, **TWP.** 16N, **RNG.** 5W, 3 **PM**

COUNTY Sangamon **DRILLING METHOD** AASHTO T 206-19 HSA **HAMMER TYPE** Auto Hammer 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. S-859
Station 859+00
Offset 65.0ft LT
Ground Surface Elev. 578.9 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After _____ **Hrs.** _____ ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				FILL: CLAY, Dark Brown and Brown, Trace Sand and Gravel, Hard, Moist (A-6)
	8			
	10	4.5	10.5	
	11	P		
	9			
	8	4.5	10.1	
-5	10	P		
	6			
	6	4.25	18	
	9	P		
570.90				
				SILT, Dark Brown and Dark Gray, Trace Sand, Medium Dense, Moist (A-4)
	4			
	5	1.25	25.5	
-10	6	P		
	5			
	5	1.25	22.7	
	6	P		
565.90				
				CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)
	6			
	6	2.89	24.4	
-15	7	S		
	5			
	7	3.05	23.1	
	8	S		
	6			
	6	2.60	24.7	
558.90	8	S		
-20				

End of Boring at 20 Feet.

Note:
1. This boring was offset 20 feet north from original location due to sloped ground.

-25 -30 -35 -40

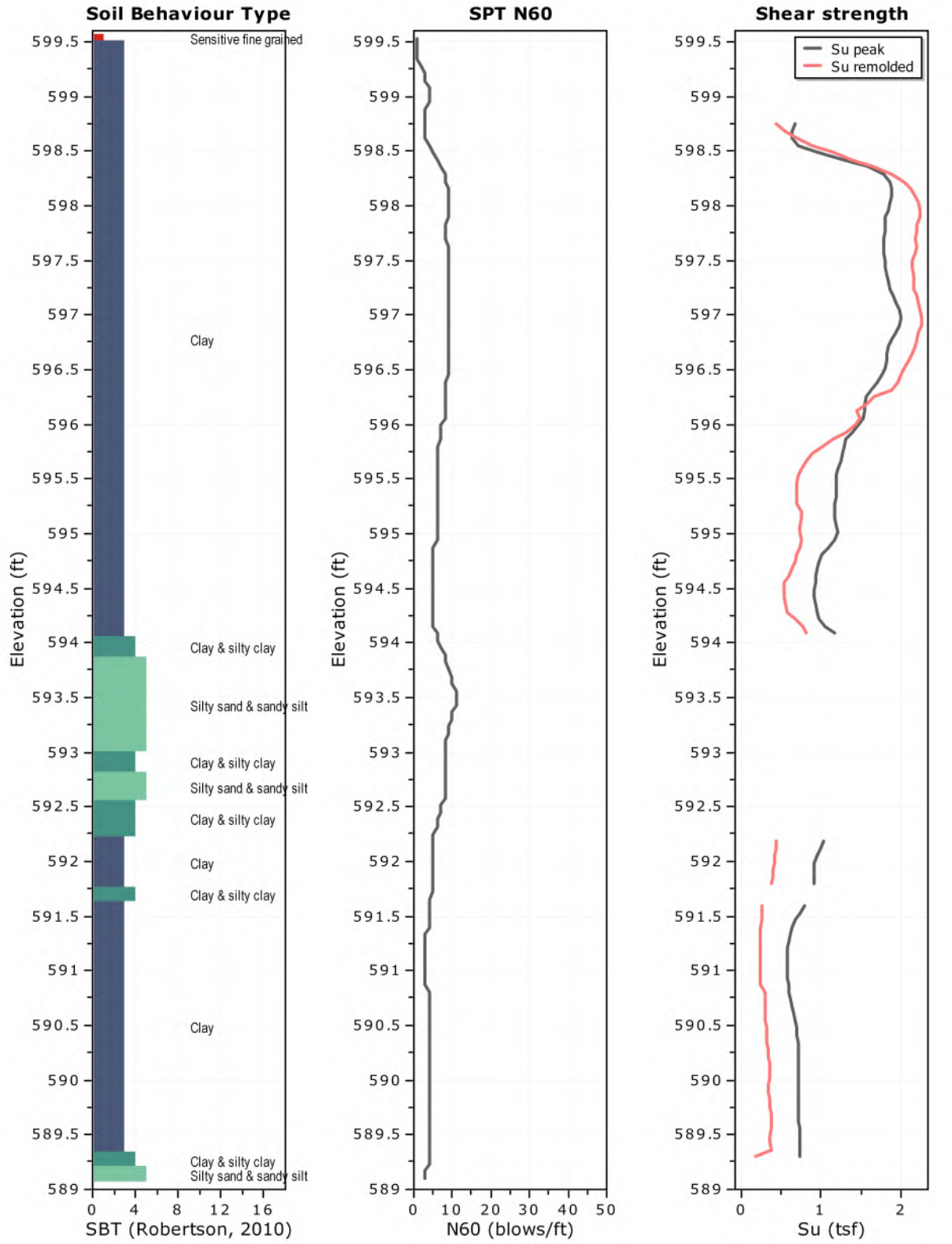
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)
CME-750 ATV Drill Rid Used. SEECO Job No. 12444G

File Name I:\REPORTS\GEOTECH\IDOT\12444G VARIOUS, DISTRICT 6\GINT TEMPLATE\12444G-IDOT ROADWAY BORINGS.GPJ Data Template D6TEMPLT.GDT Date Printed 2/9/21
Latitude 39.817466 Longitude -89.705137 Datum Job Number 12444G

Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C695 STA 695+00 @ 37.5 Rt
Total depth: 10.56 ft, Date: 11/11/2020
Surface Elevation: 599.60 ft
Coords: lat 39.829543° lon -89.761157°
Cone Type: HT-0644
Cone Operator: JJJ

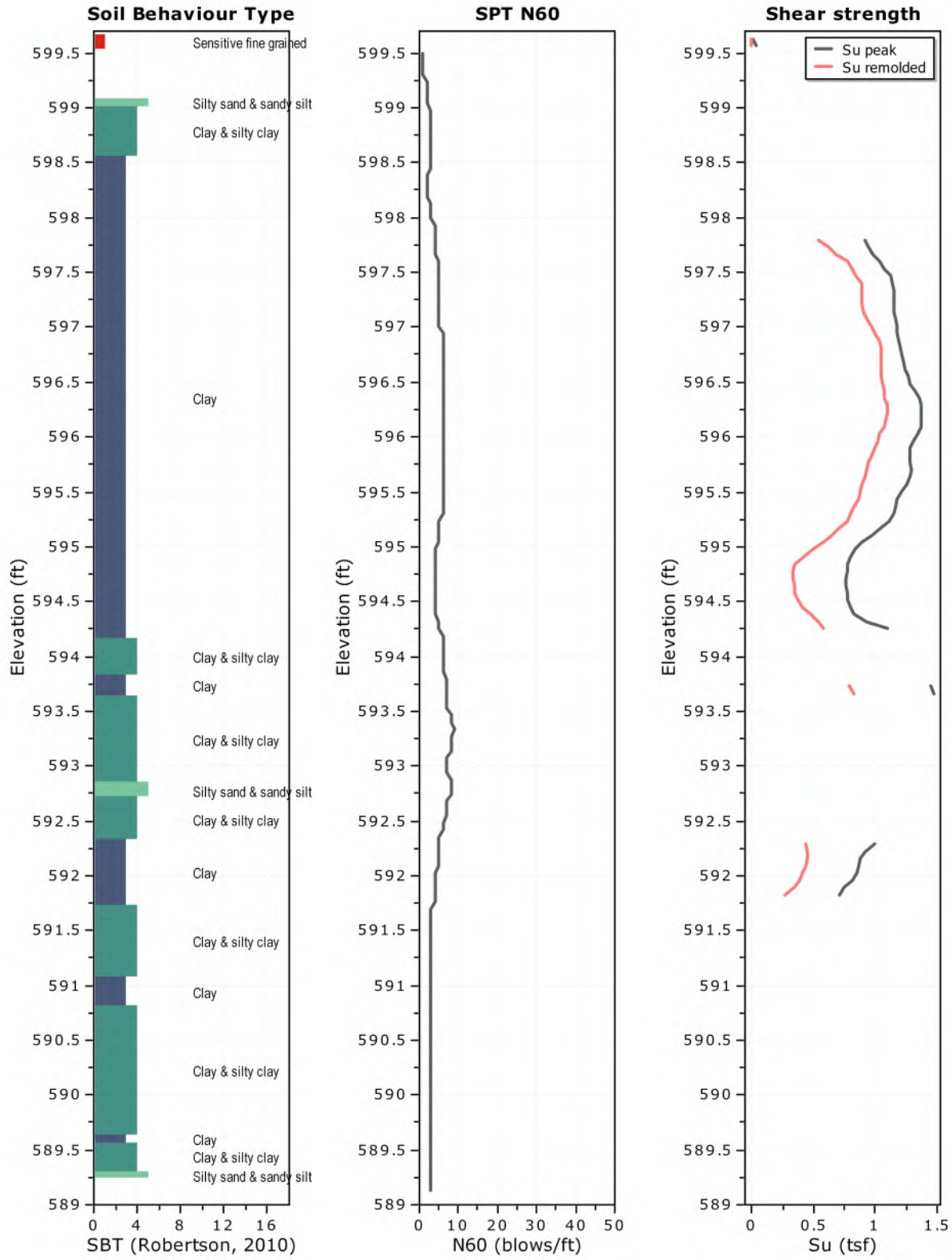
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C700 STA 700+00 @ 37.5 Lt
Total depth: 10.63 ft, Date: 11/11/2020
Surface Elevation: 599.70 ft
Coords: lat 39.829455° lon -89.759354°
Cone Type: HT-0644
Cone Operator: JJJ

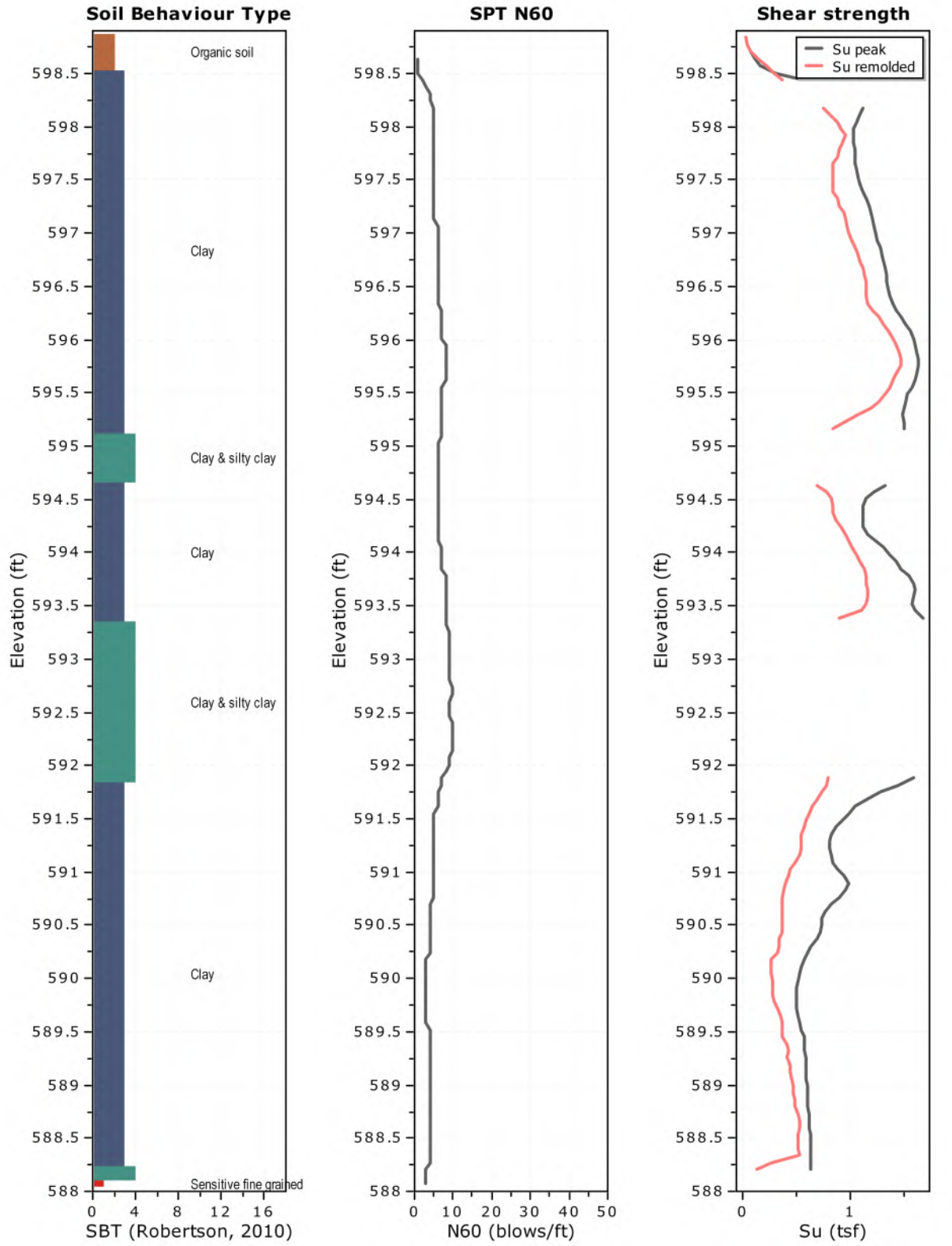
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C705 STA 705+00 @ 37.5 Rt
Total depth: 10.89 ft, Date: 11/11/2020
Surface Elevation: 598.90 ft
Coords: lat 39.829003° lon -89.757666°
Cone Type: HT-0644
Cone Operator: JJJ

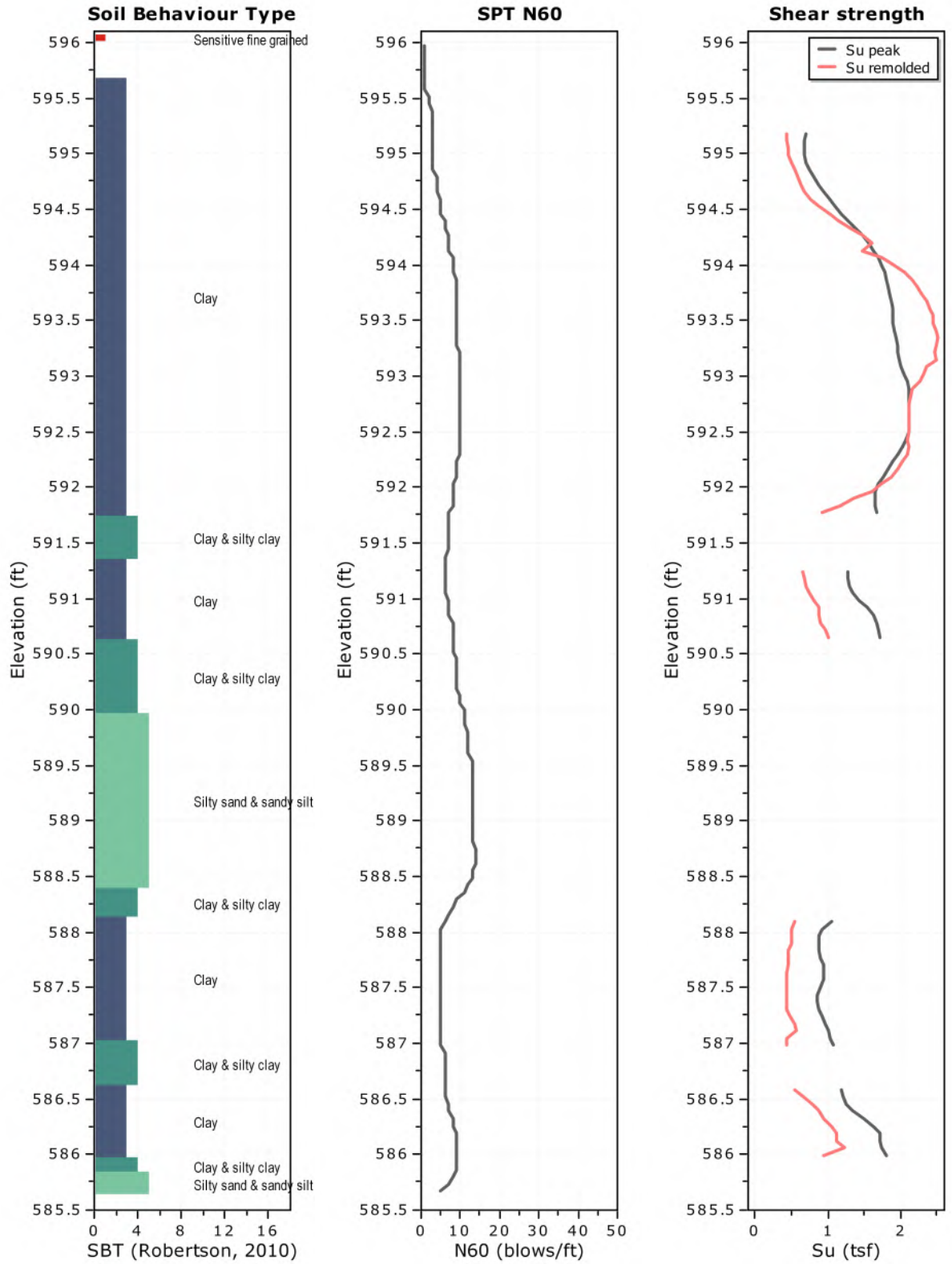
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C710 STA 710+00 @ 37.5 Lt
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 596.10 ft
Coords: lat 39.828925° lon -89.755862°
Cone Type: HT-0644
Cone Operator: JJJ

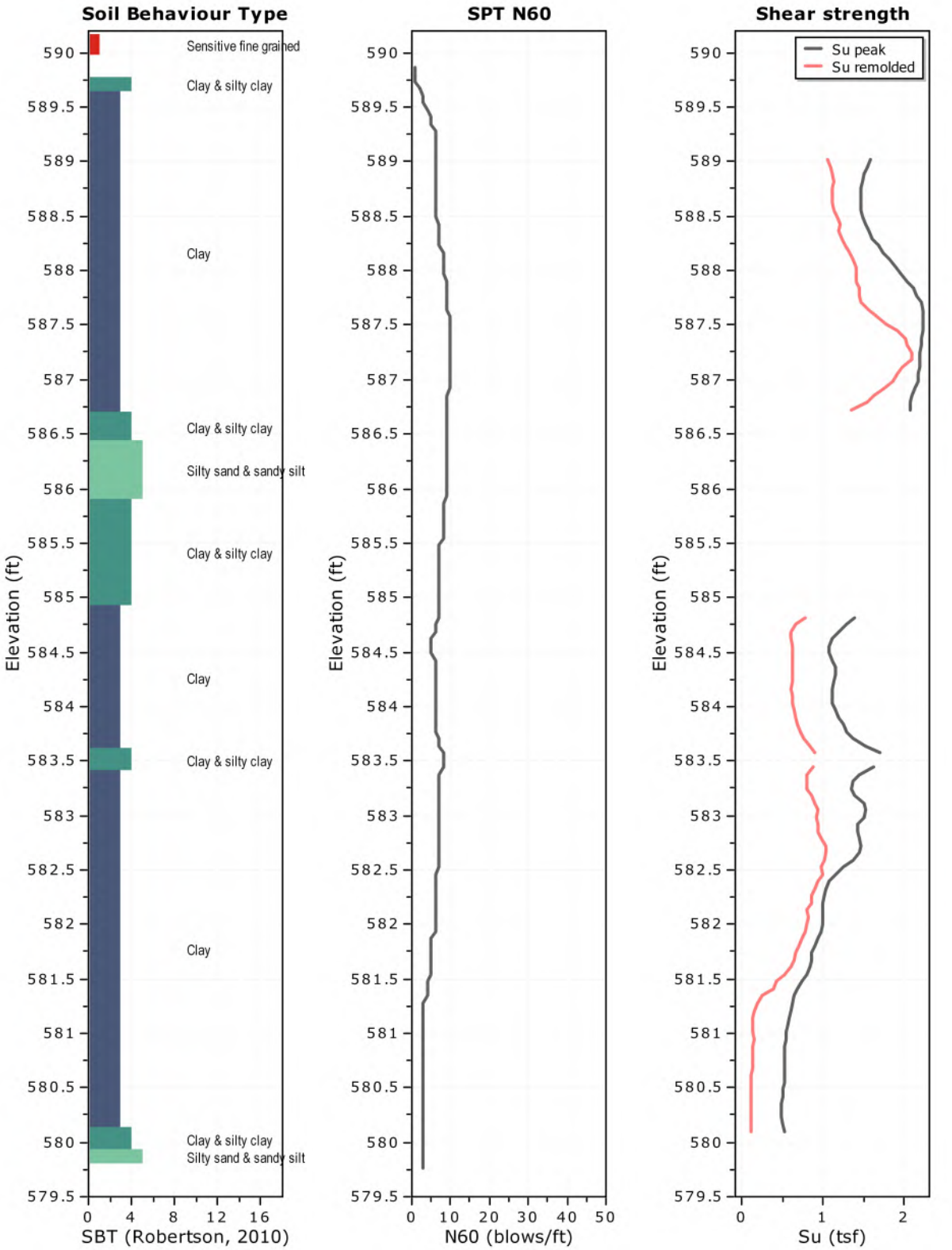
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C715 STA 715+00 @ 37.5 Rt
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 590.20 ft
Coords: lat 39.828464° lon -89.754172°
Cone Type: HT-0644
Cone Operator: JJJ

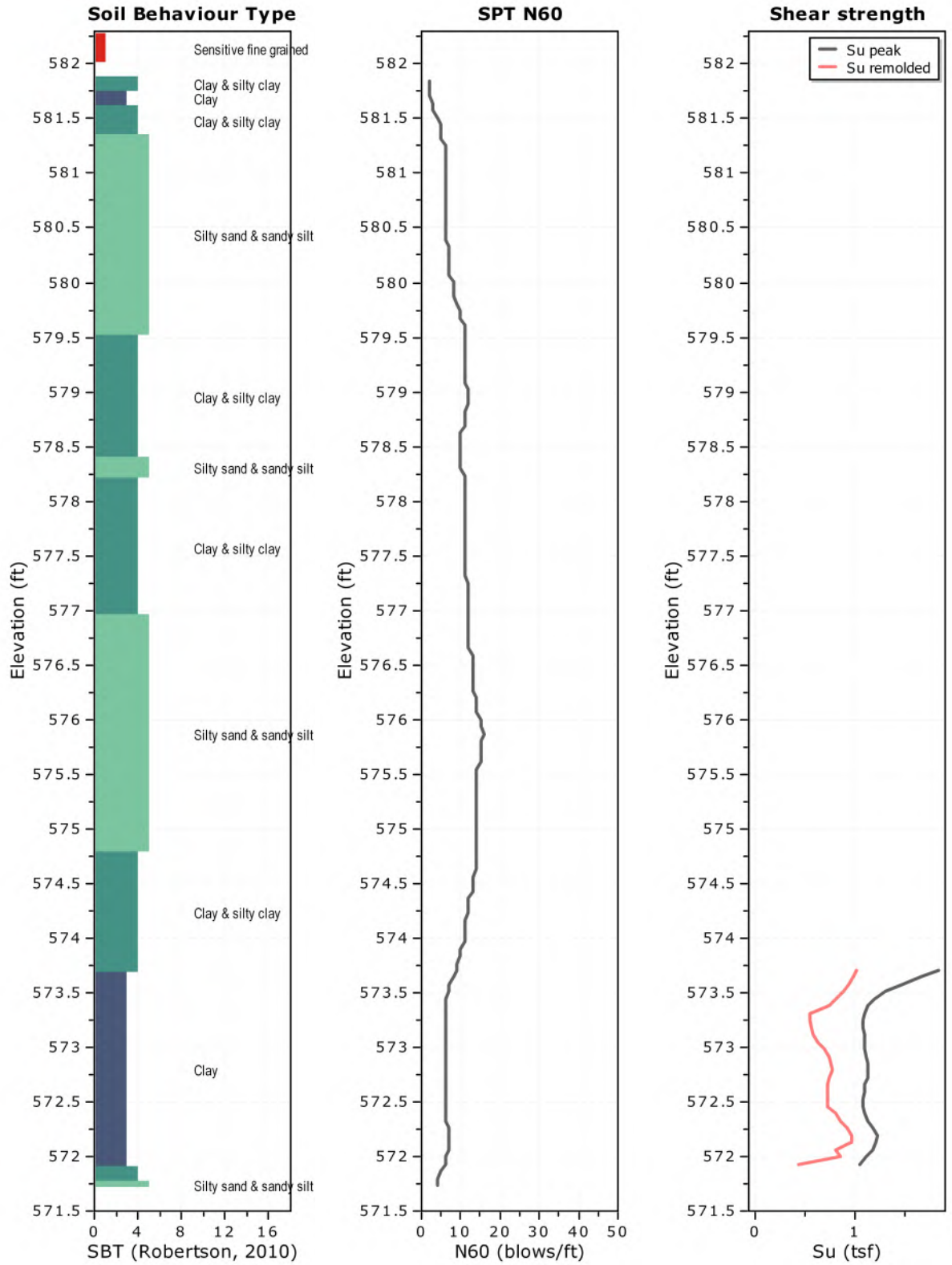
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C720 STA 720+00 @ 37.5 Lt
Total depth: 10.63 ft, Date: 11/11/2020
Surface Elevation: 582.30 ft
Coords: lat 39.828389° lon -89.752374°
Cone Type: HT-0644
Cone Operator: JJJ

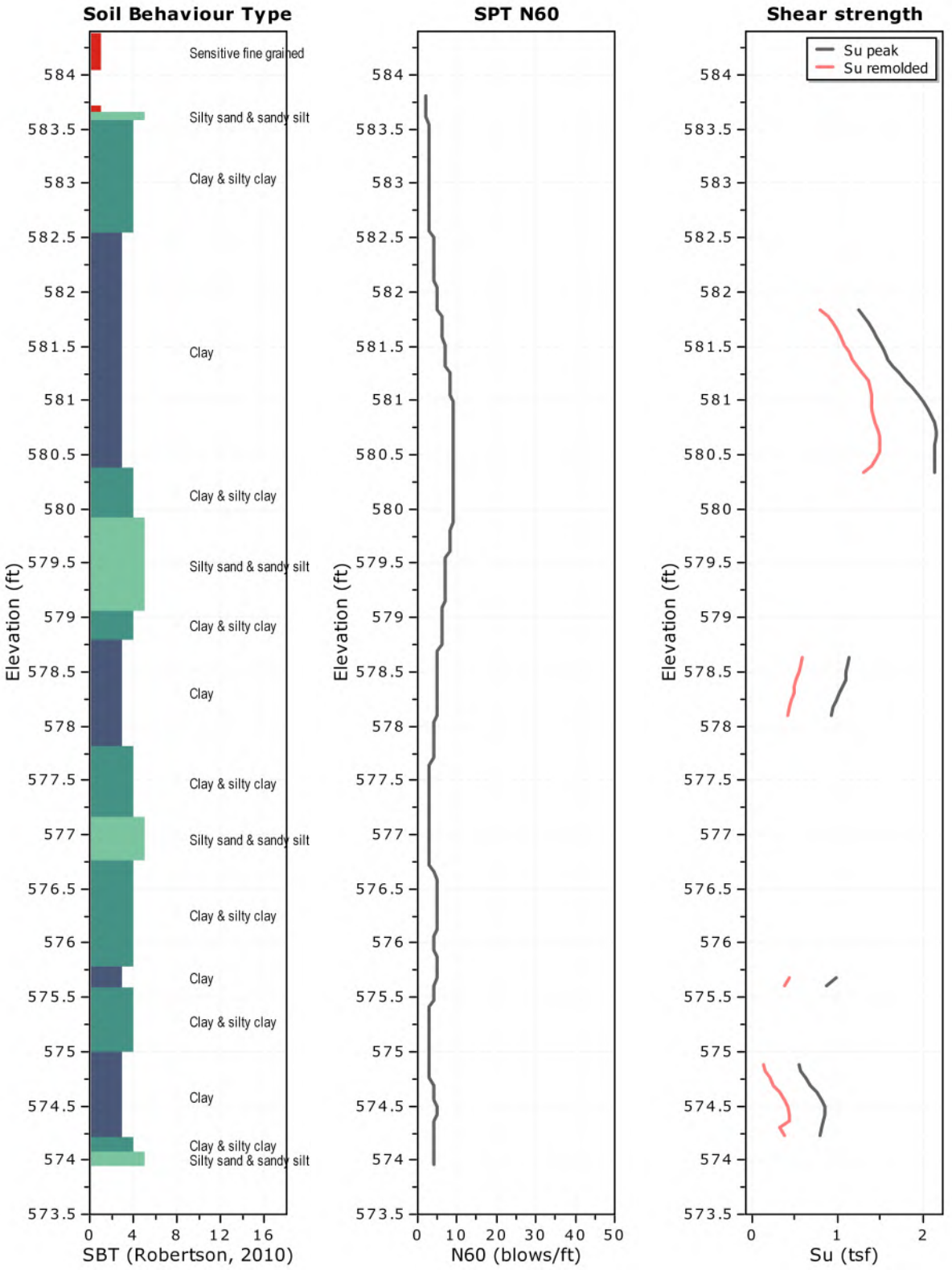
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C725 STA 725+00 @ 37.5 Rt
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 584.40 ft
Coords: lat 39.827924° lon -89.750679°
Cone Type: HT-0644
Cone Operator: JJJ

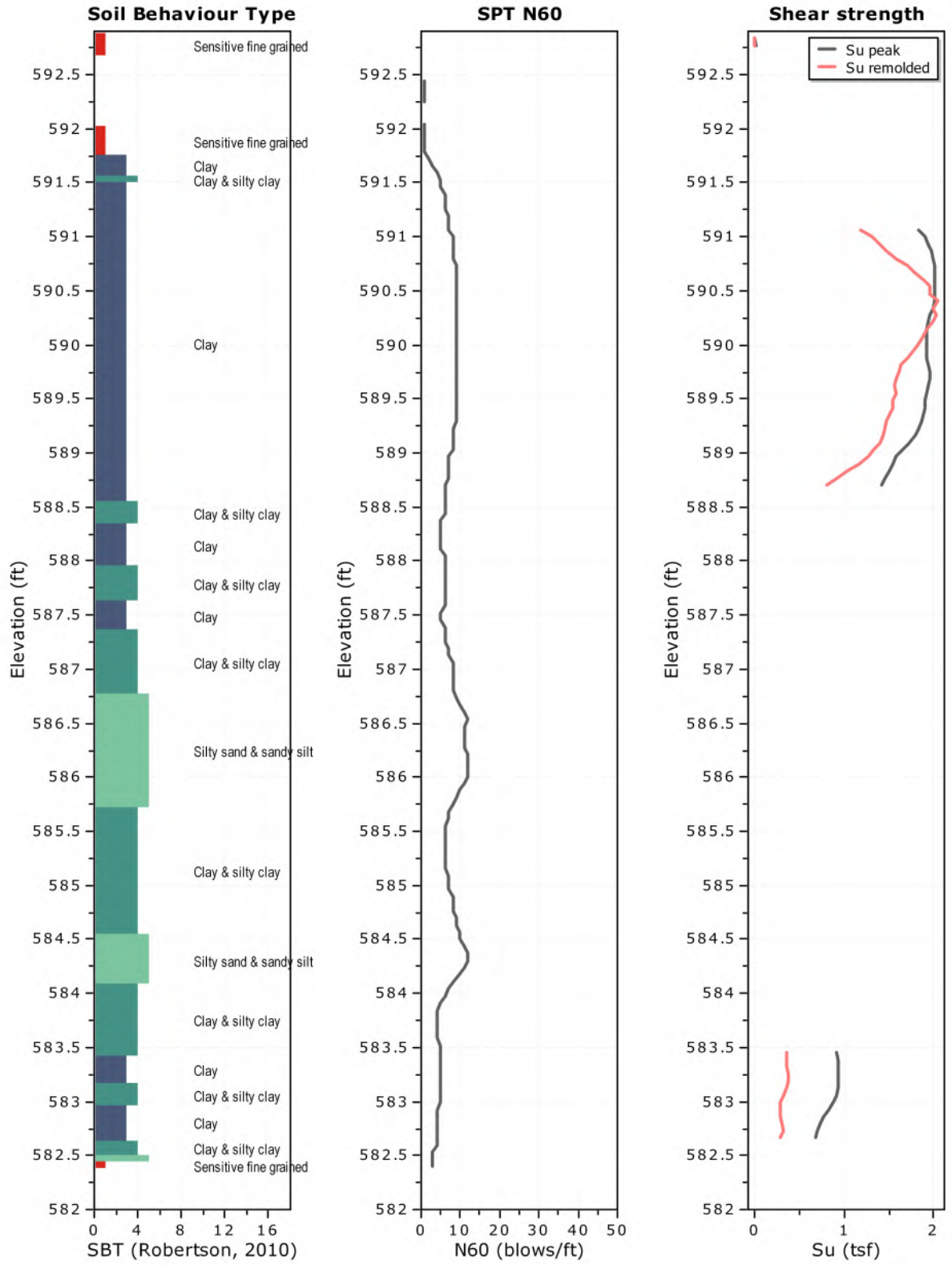
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C730 STA 730+00 @ 37.5 Lt
Total depth: 10.56 ft, Date: 11/11/2020
Surface Elevation: 592.90 ft
Coords: lat 39.827852° lon -89.748882°
Cone Type: HT-0644
Cone Operator: JJJ

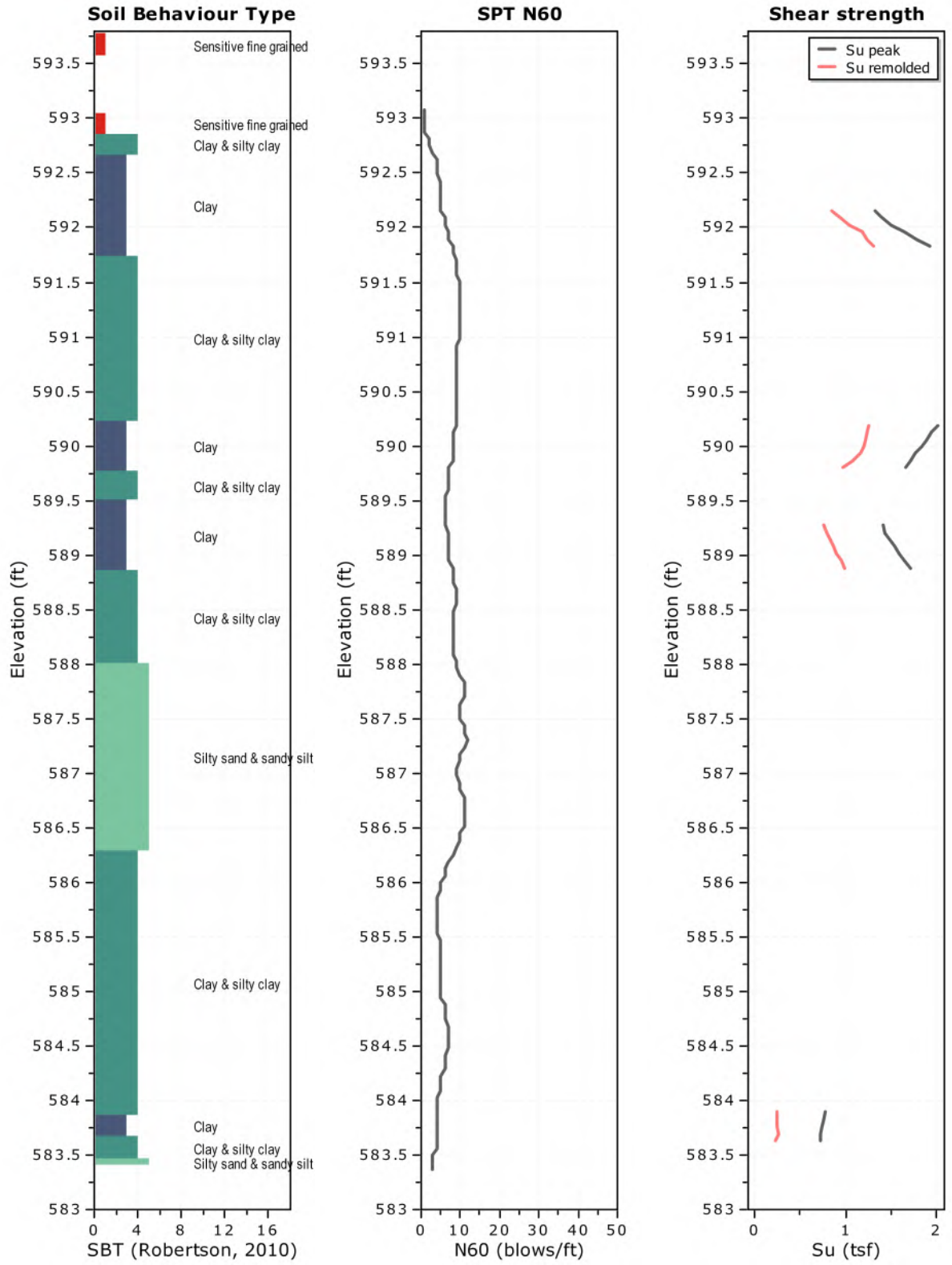
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C735 STA 735+00 @ 37.5 Rt
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 593.80 ft
Coords: lat 39.827384° lon -89.747184°
Cone Type: HT-0644
Cone Operator: JJJ

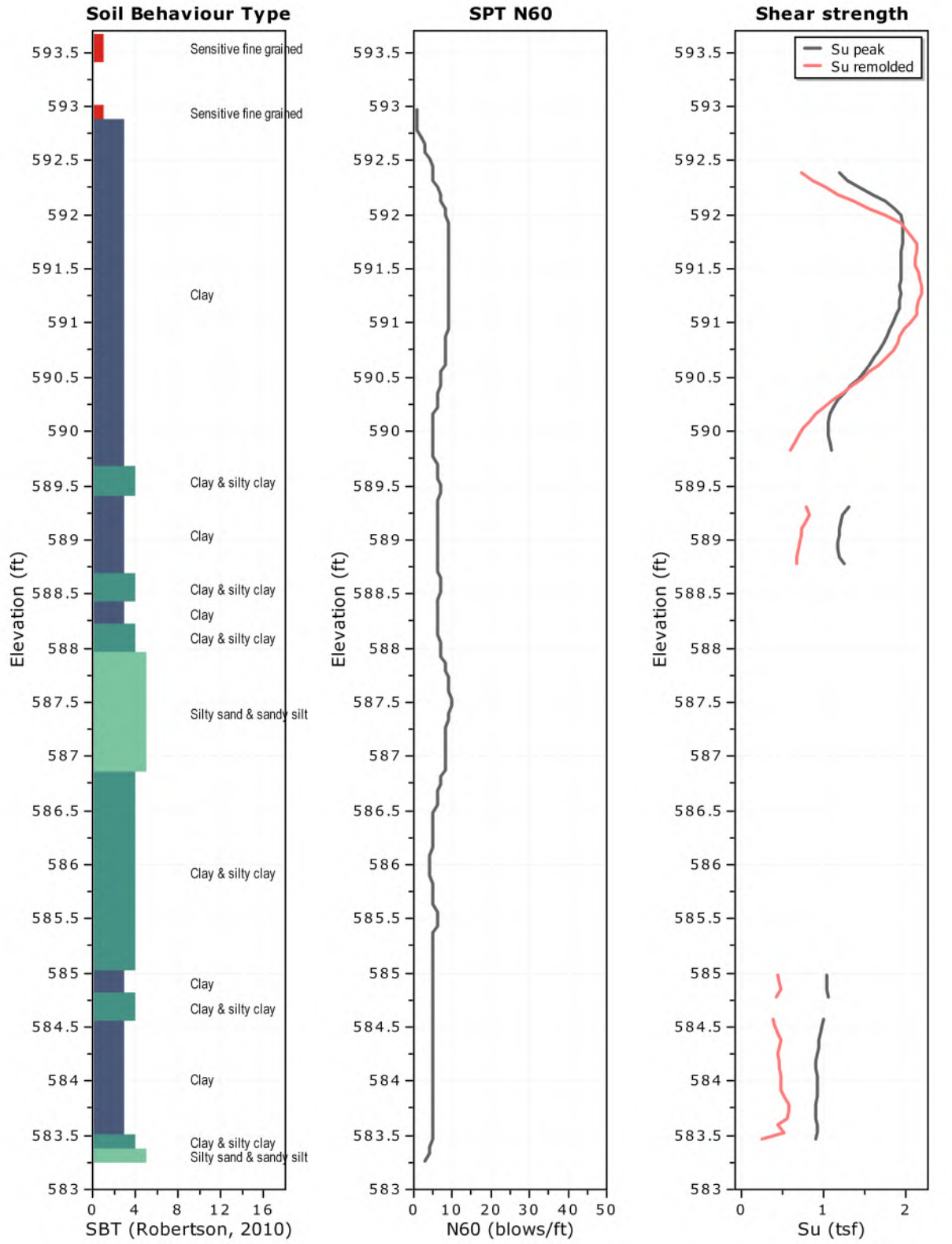
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C740 STA 740+00@ 37.5 Lt
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 593.70 ft
Coords: lat 39.827315° lon -89.745393°
Cone Type: HT-0644
Cone Operator: JJJ

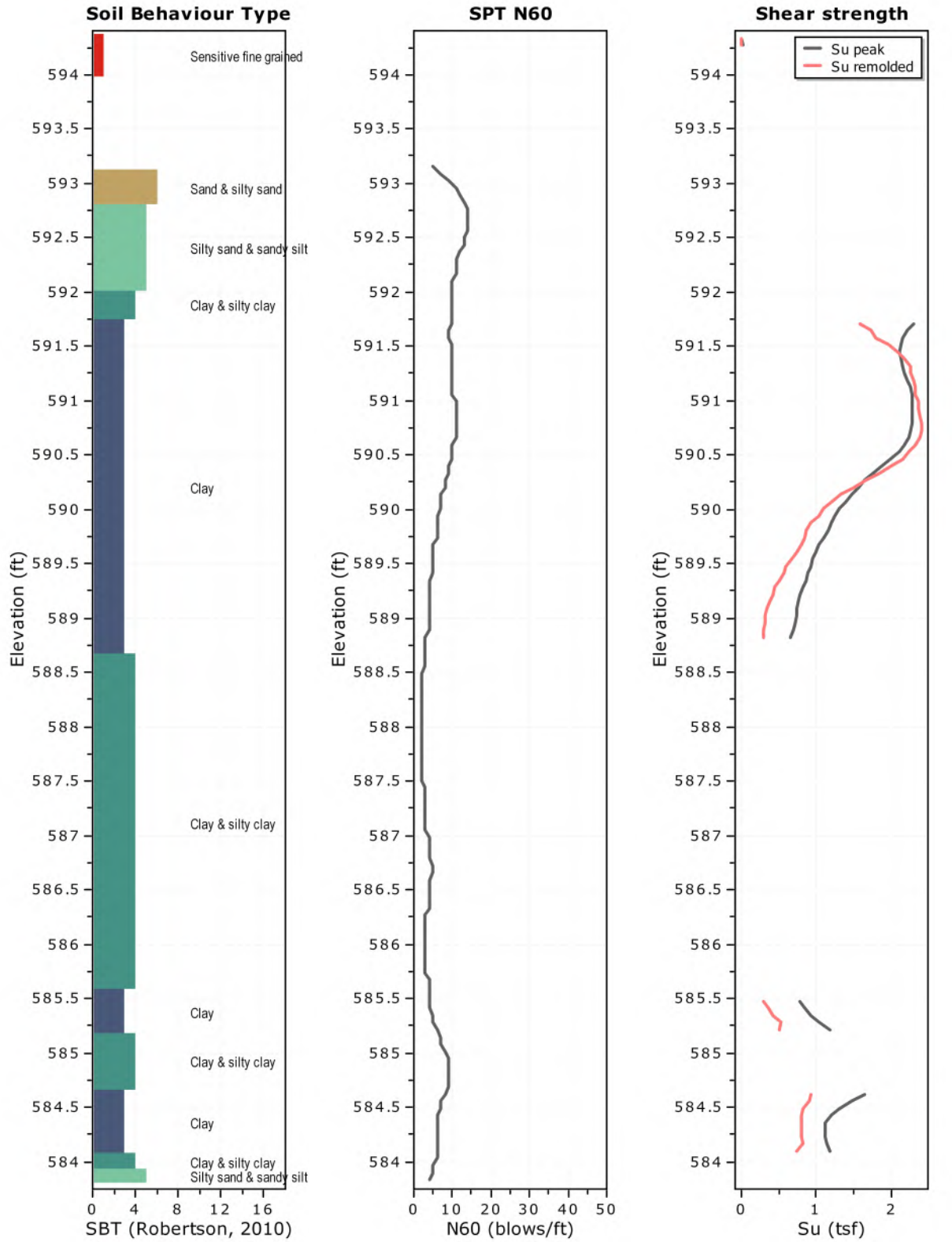
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C745 STA 745+00 @ 37.5 Rt
Total depth: 10.63 ft, Date: 11/11/2020
Surface Elevation: 594.40 ft
Coords: lat 39.826838° lon -89.7437°
Cone Type: HT-0644
Cone Operator: JJJ

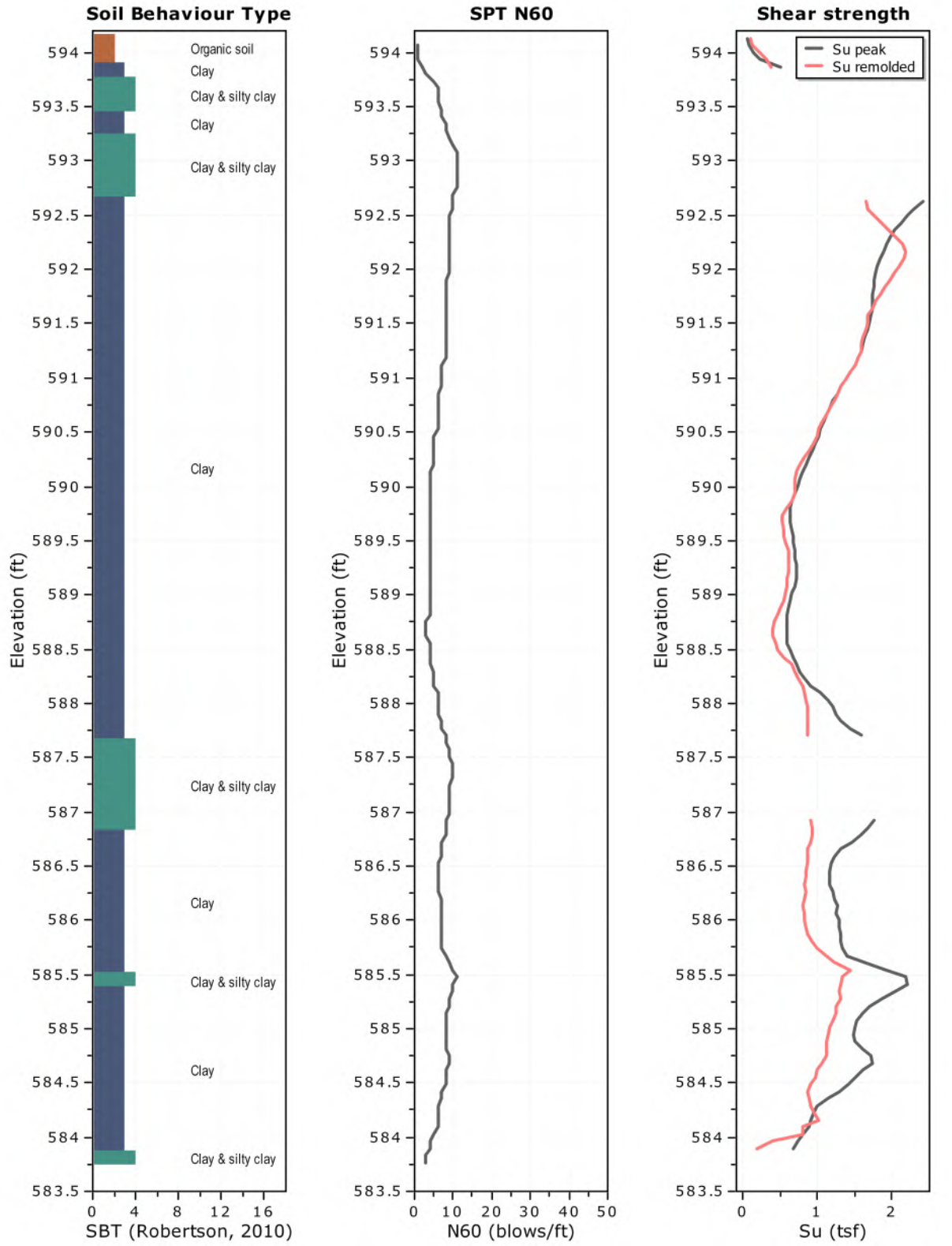
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C750 STA 750+00 @ 37.5 Lt
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 594.20 ft
Coords: lat 39.826777° lon -89.7419°
Cone Type: HT-0644
Cone Operator: JJJ

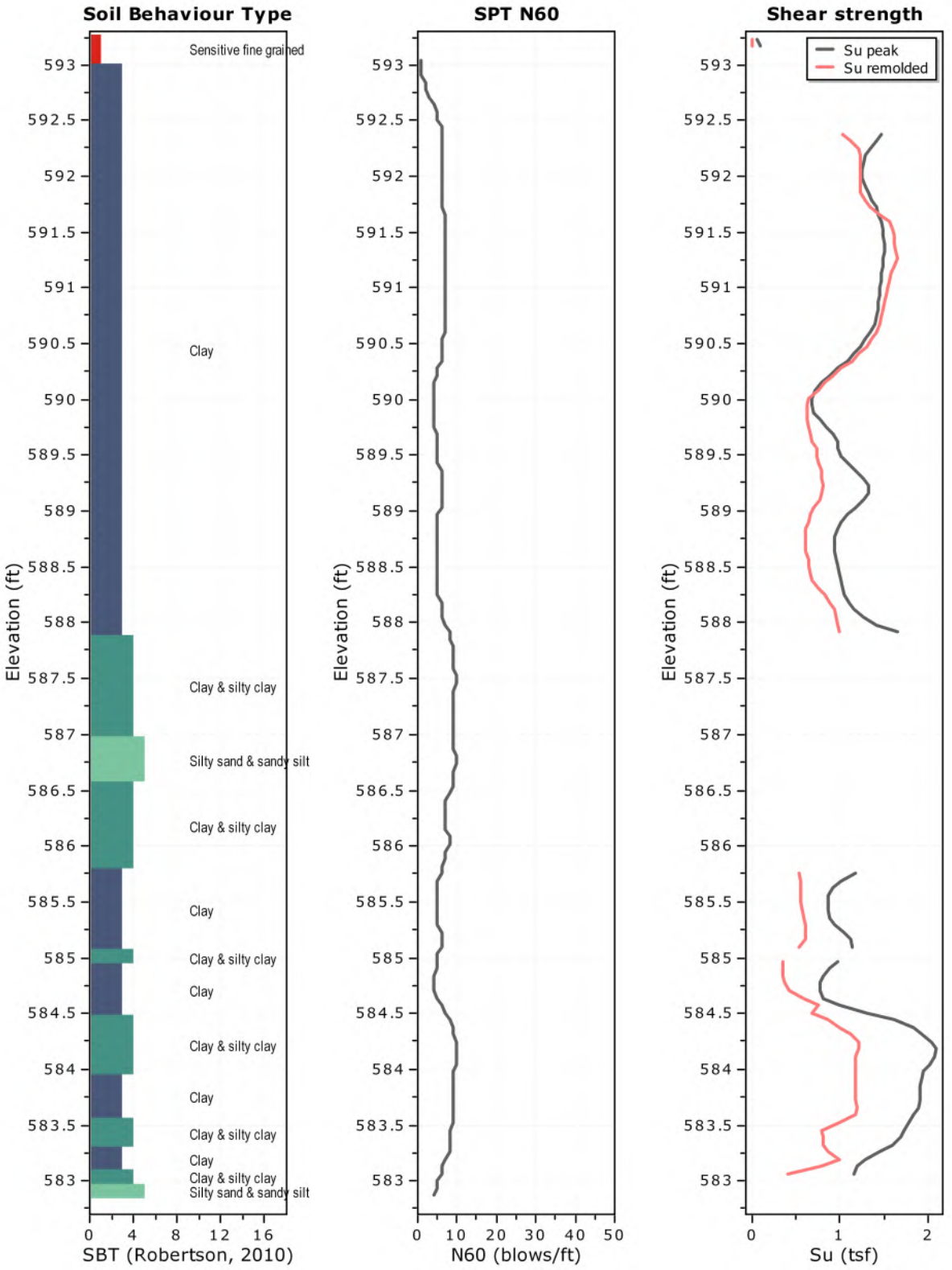
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C755 STA 755+00 @ on C/L
Total depth: 10.50 ft, Date: 11/11/2020
Surface Elevation: 593.30 ft
Coords: lat 39.826395° lon -89.740185°
Cone Type: HT-0644
Cone Operator: JJJ

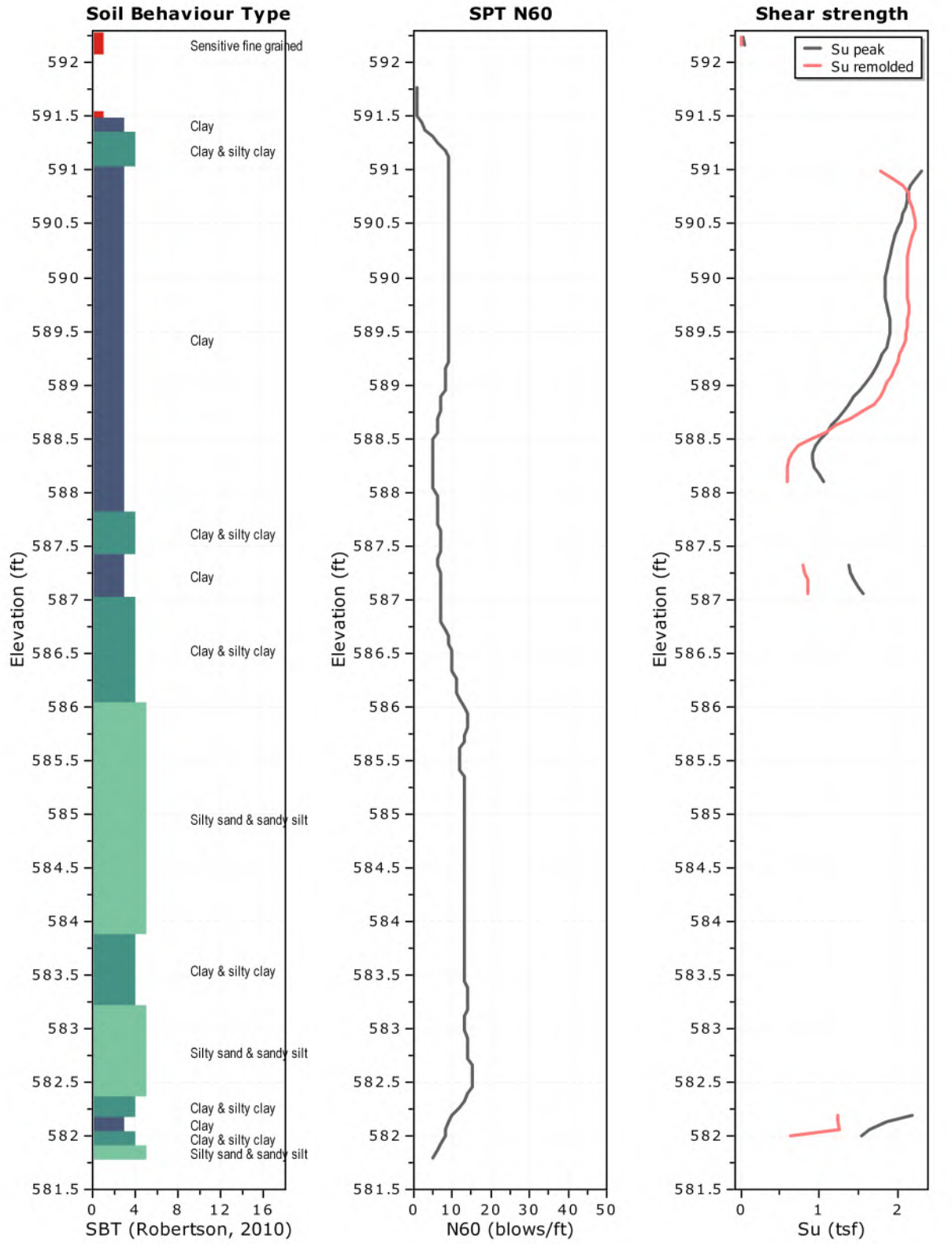
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C760 STA 760+00 @ 37.5 Rt
Total depth: 10.56 ft, Date: 11/11/2020
Surface Elevation: 592.30 ft
Coords: lat 39.826045° lon -89.738458°
Cone Type: HT-0644
Cone Operator: JJJ

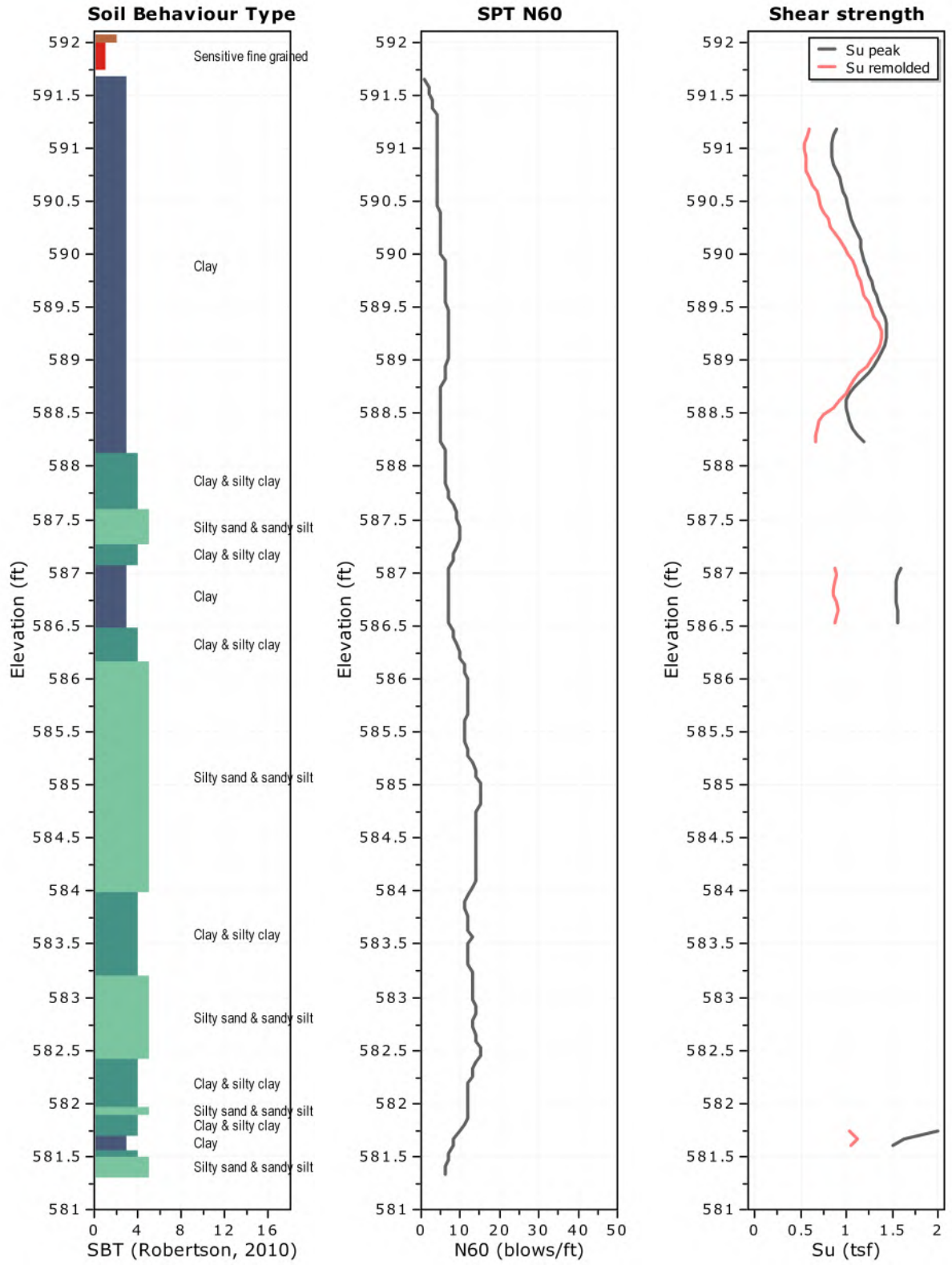
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C765 STA 765+00 @ 37.5 Lt
Total depth: 10.83 ft, Date: 11/11/2020
Surface Elevation: 592.10 ft
Coords: lat 39.825972° lon -89.736665°
Cone Type: HT-0644
Cone Operator: JJJ

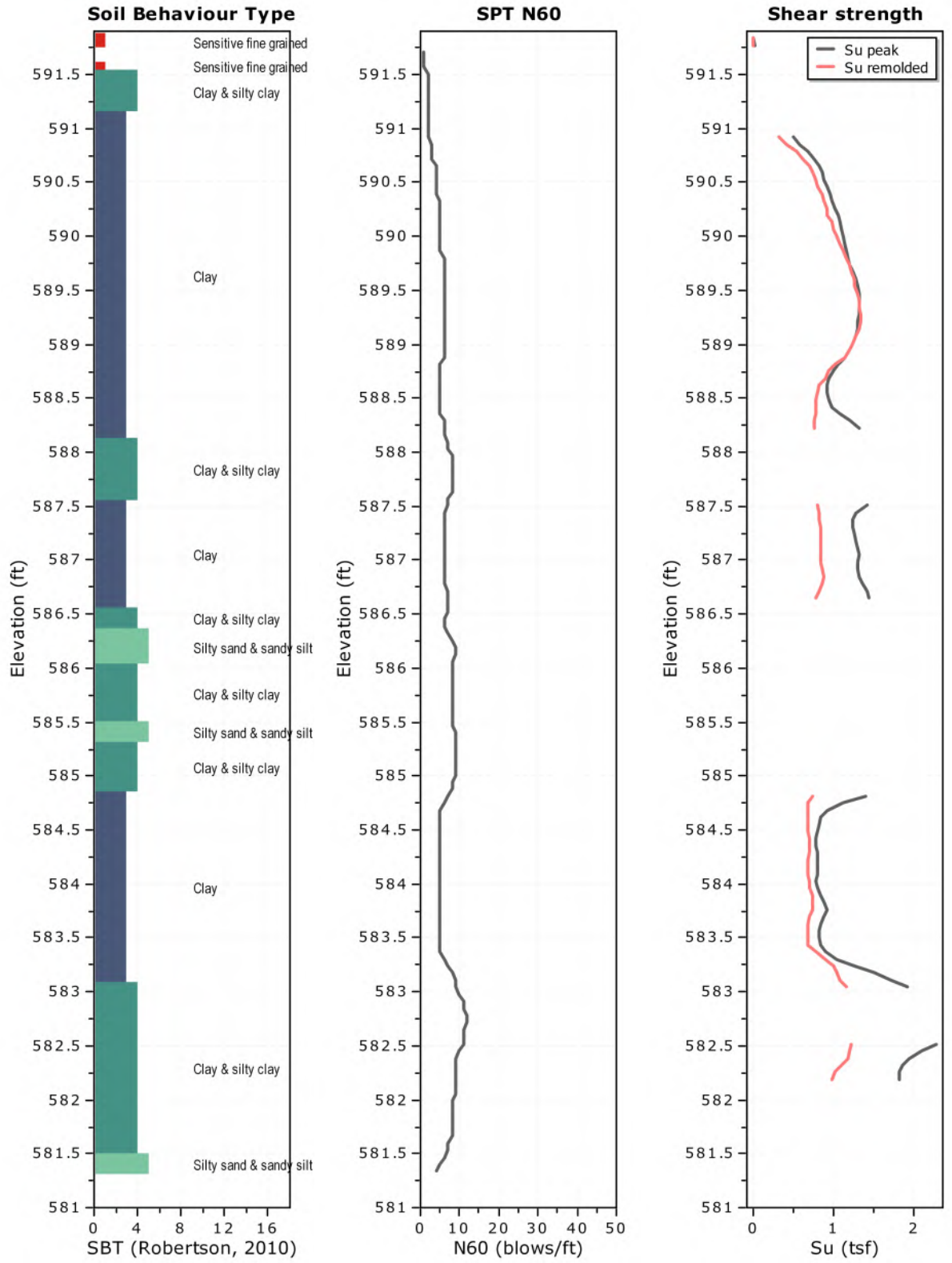
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C770 STA 770+00 @ 37.5 Rt
Total depth: 10.63 ft, Date: 11/11/2020
Surface Elevation: 591.90 ft
Coords: lat 39.825467° lon -89.734998°
Cone Type: HT-0644
Cone Operator: JJJ

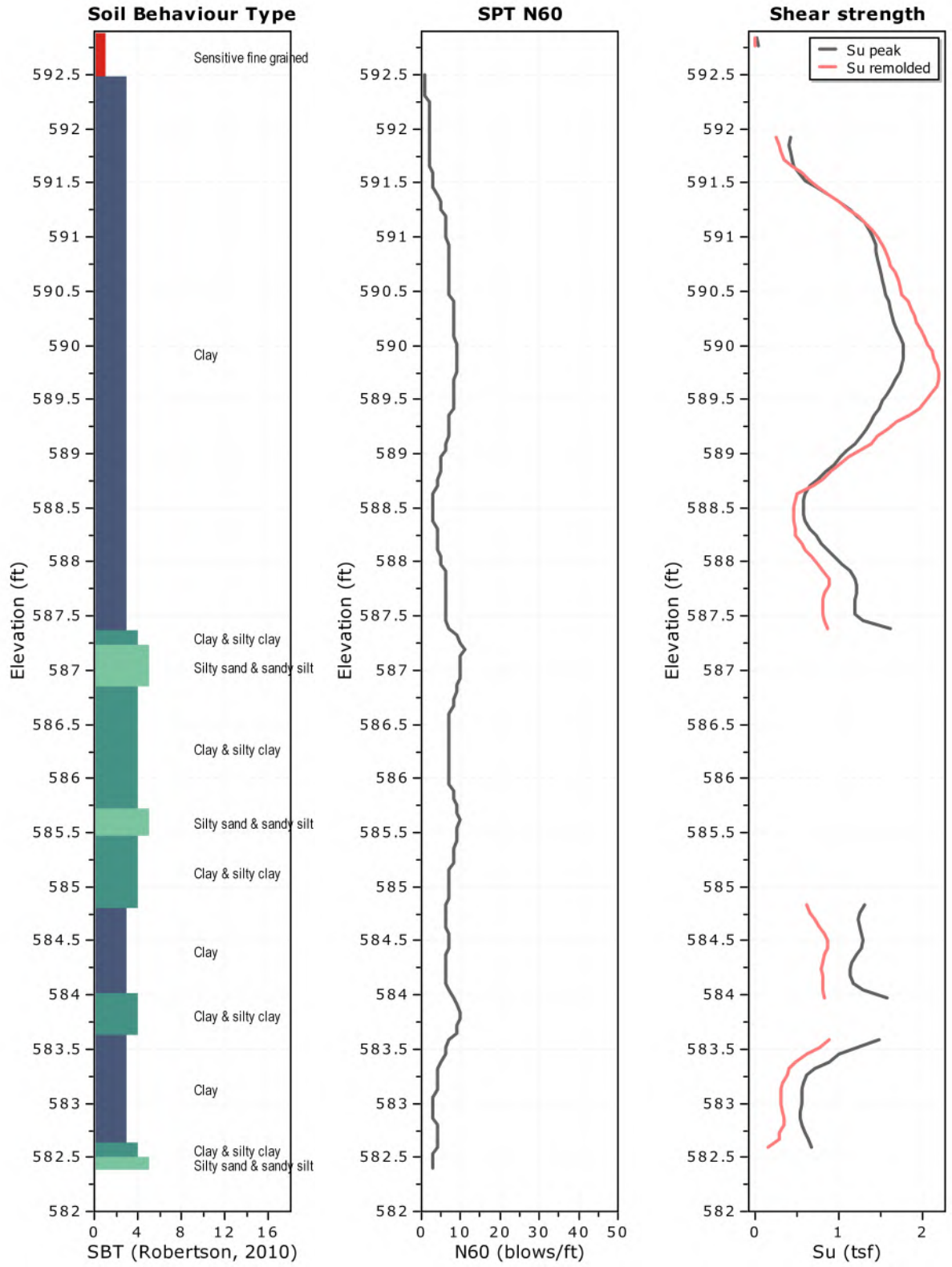
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C775 STA 775+00 @ 37.5 Lt
Total depth: 10.56 ft, Date: 11/11/2020
Surface Elevation: 592.90 ft
Coords: lat 39.825209° lon -89.733223°
Cone Type: HT-0644
Cone Operator: JJJ

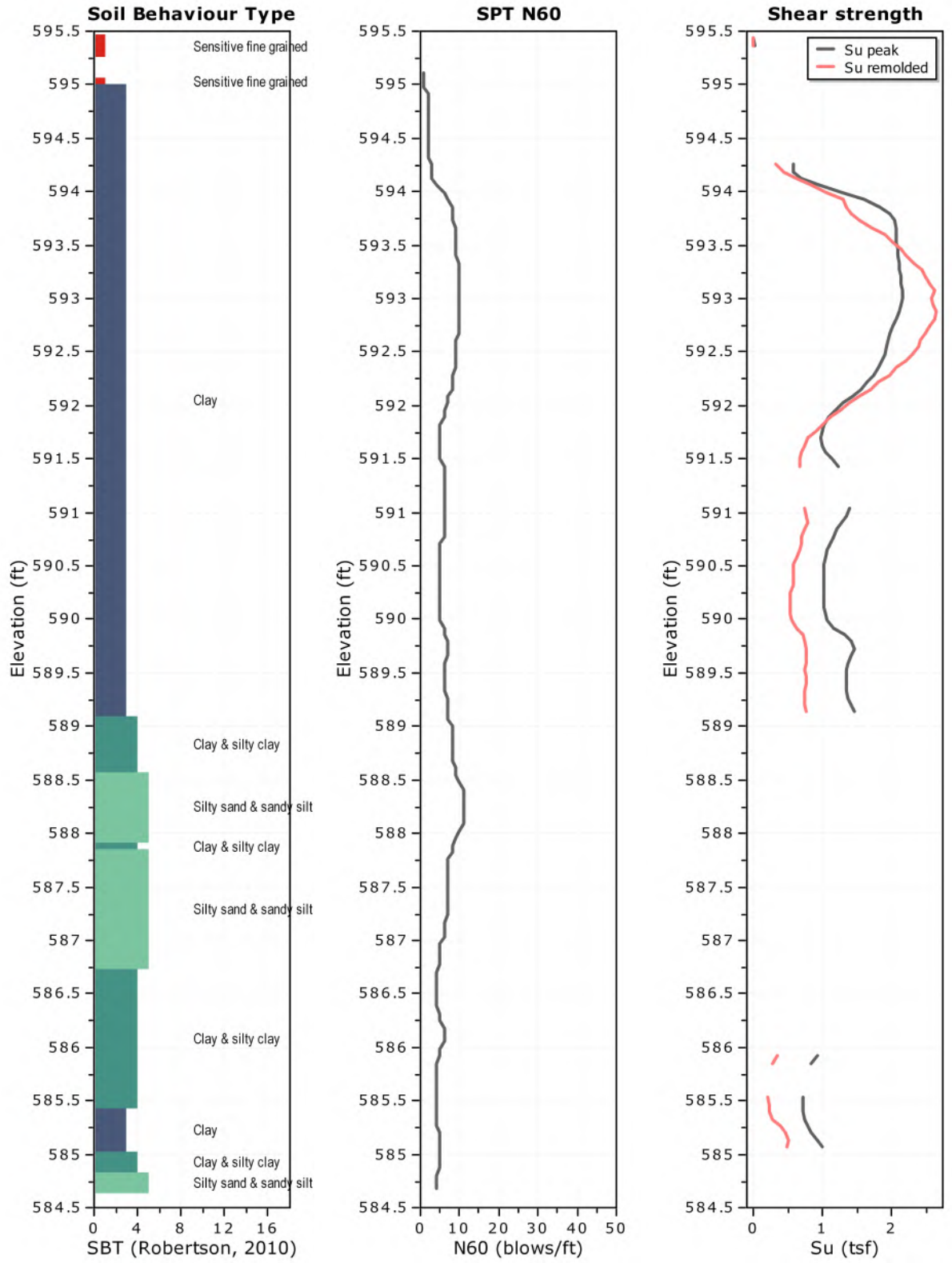
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C780 STA 780+00 @ 37.5 Rt
Total depth: 10.89 ft, Date: 11/11/2020
Surface Elevation: 595.50 ft
Coords: lat 39.824491° lon -89.731685°
Cone Type: HT-0644
Cone Operator: JJJ

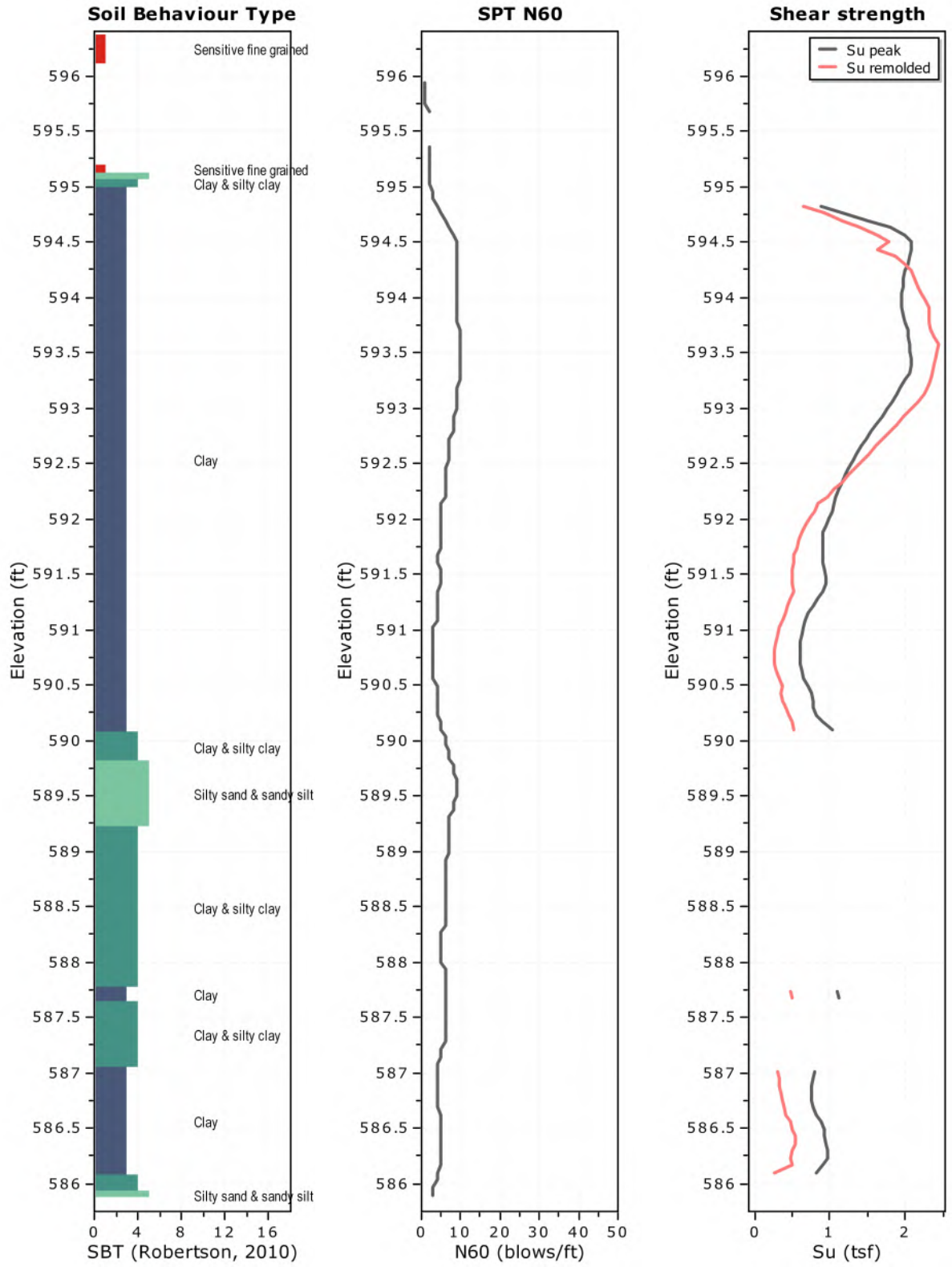
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C785 STA 785+00 @ 37.5 Lt
Total depth: 10.56 ft, Date: 11/11/2020
Surface Elevation: 596.40 ft
Coords: lat 39.82414° lon -89.729944°
Cone Type: HT-0644
Cone Operator: JJJ

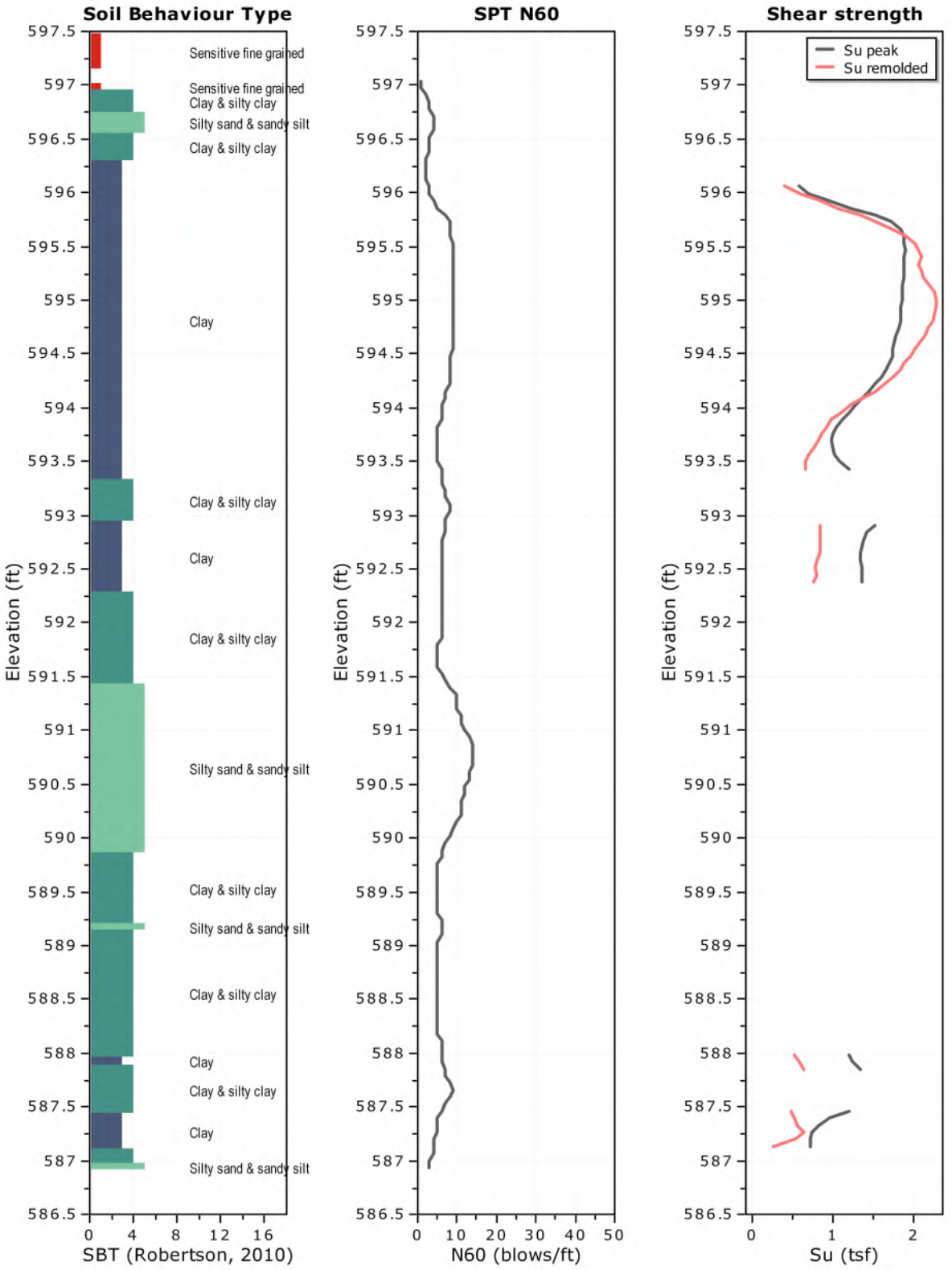
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C790 STA 790+00 @ 37.5 Rt
Total depth: 10.63 ft, Date: 11/11/2020
Surface Elevation: 597.50 ft
Coords: lat 39.823407° lon -89.72841°
Cone Type: HT-0644
Cone Operator: JJJ

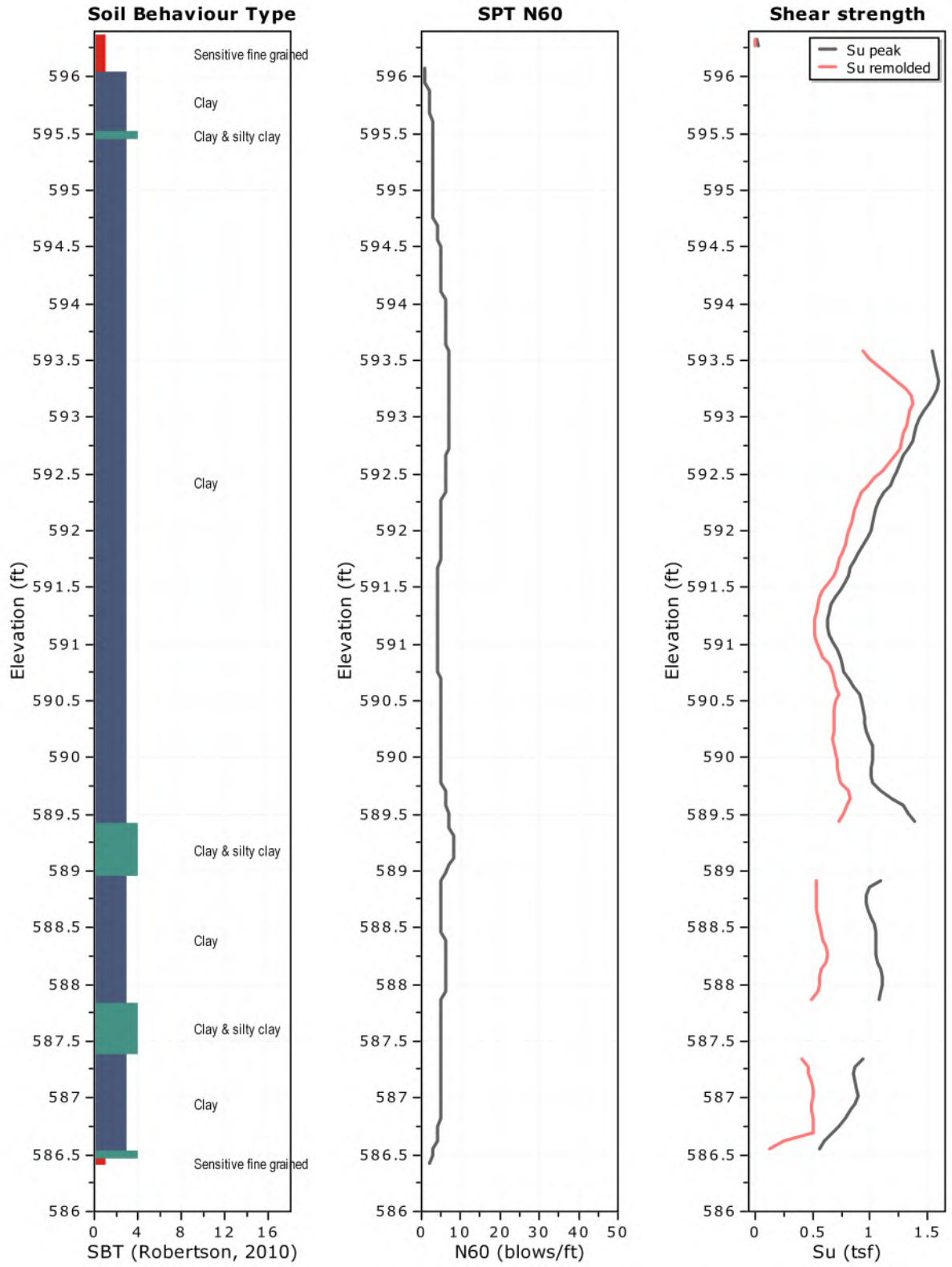
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C795 STA 795+00 @ 37.5 Lt
Total depth: 10.04 ft, Date: 11/10/2020
Surface Elevation: 596.40 ft
Coords: lat 39.823068° lon -89.726673°
Cone Type: HT-0644
Cone Operator: JJJ

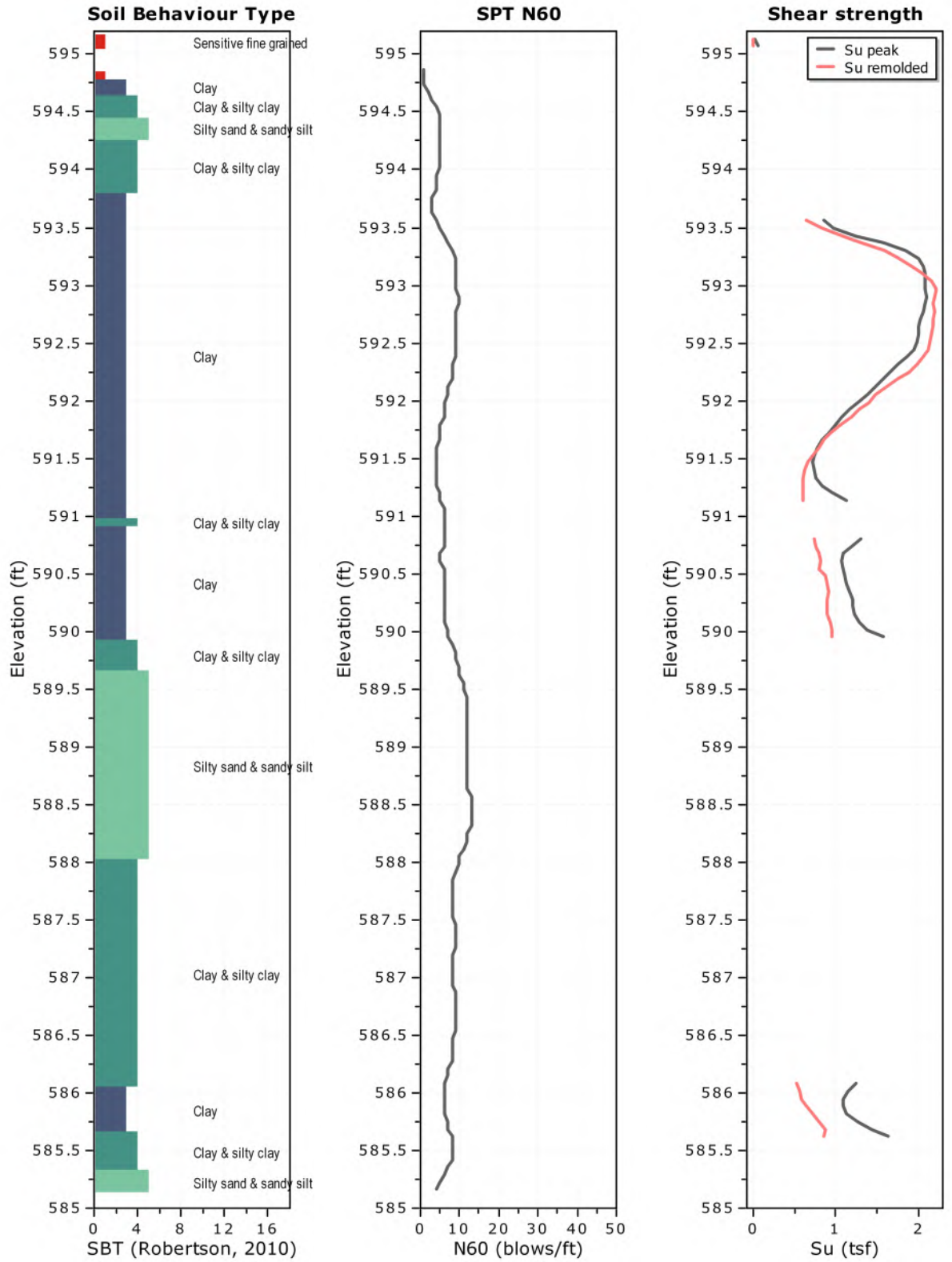
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C800 STA 800+00 @ 37.5 Rt
Total depth: 10.11 ft, Date: 11/10/2020
Surface Elevation: 595.20 ft
Coords: lat 39.822326° lon -89.725136°
Cone Type: HT-0644
Cone Operator: JJJ

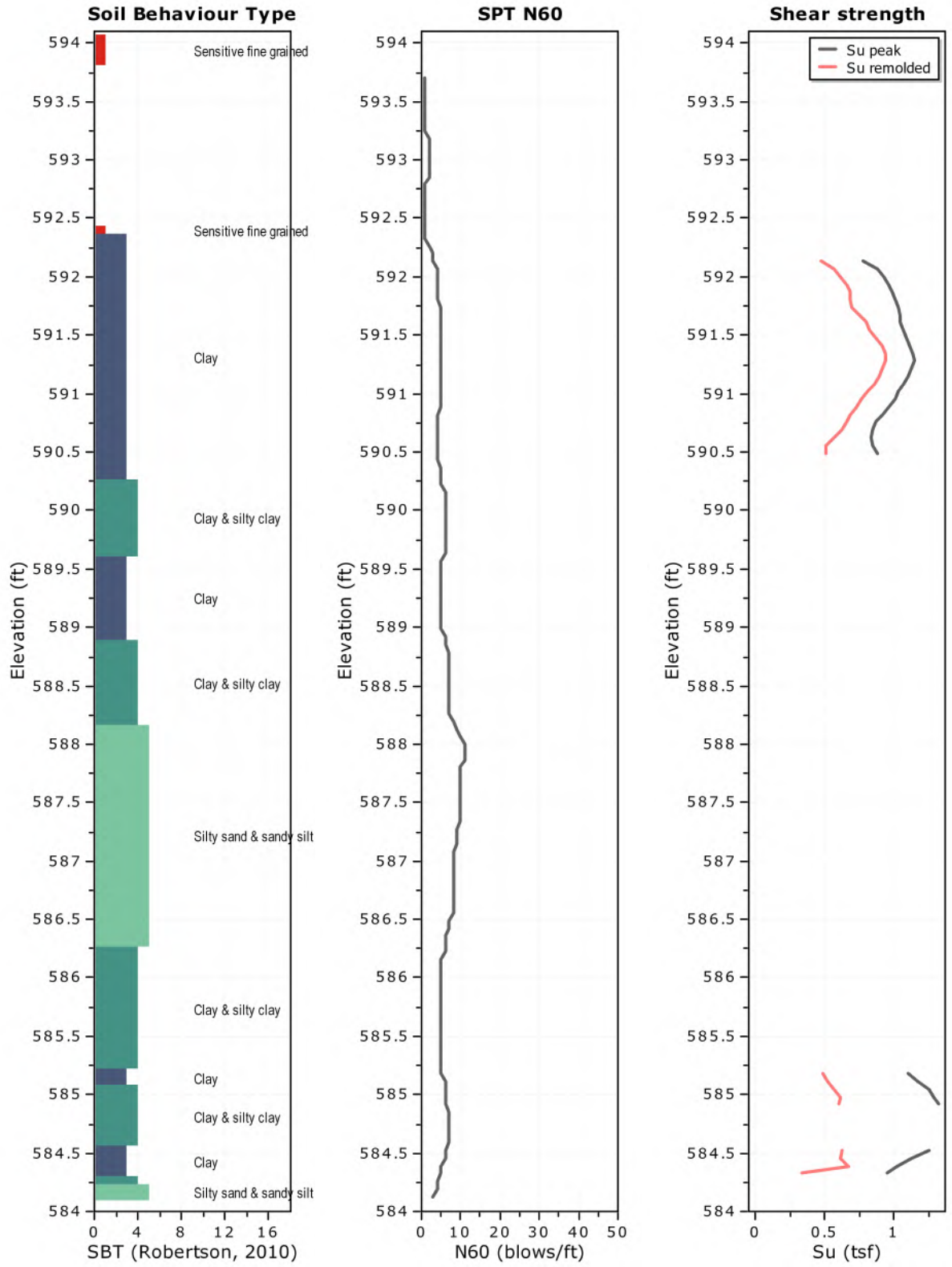
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C805 STA 805+00 @ 37.5 Lt
Total depth: 10.04 ft, Date: 11/10/2020
Surface Elevation: 594.10 ft
Coords: lat 39.821988° lon -89.723397°
Cone Type: HT-0644
Cone Operator: JJJ

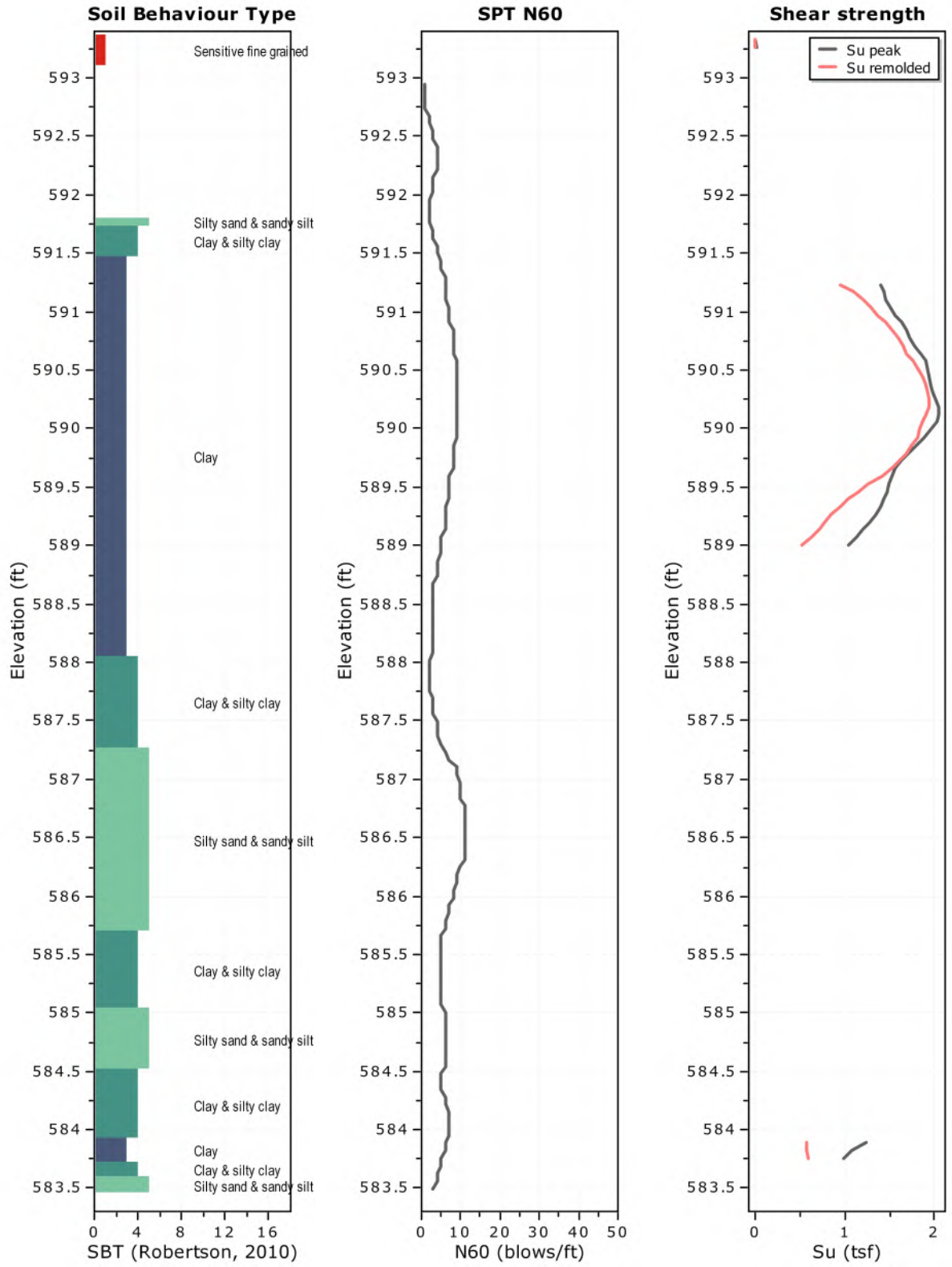
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C810 STA 810+00 @ 37.5 Rt
Total depth: 9.97 ft, Date: 11/10/2020
Surface Elevation: 593.40 ft
Coords: lat 39.821274° lon -89.721856°
Cone Type: HT-0644
Cone Operator: JJJ

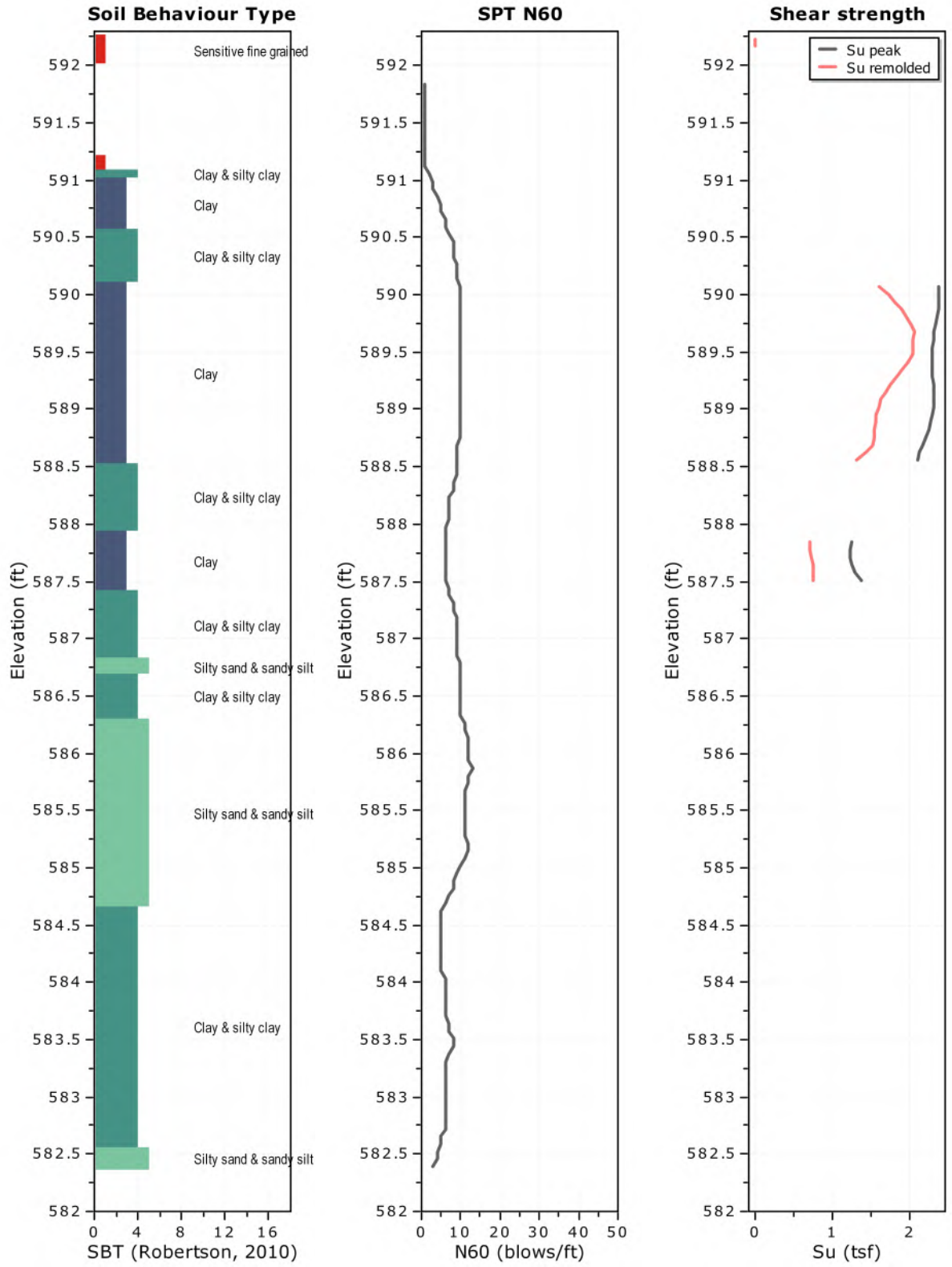
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C815 STA 815+00 @ 37.5 Lt
Total depth: 9.97 ft, Date: 11/10/2020
Surface Elevation: 592.30 ft
Coords: lat 39.820882° lon -89.720134°
Cone Type: HT-0644
Cone Operator: JJJ

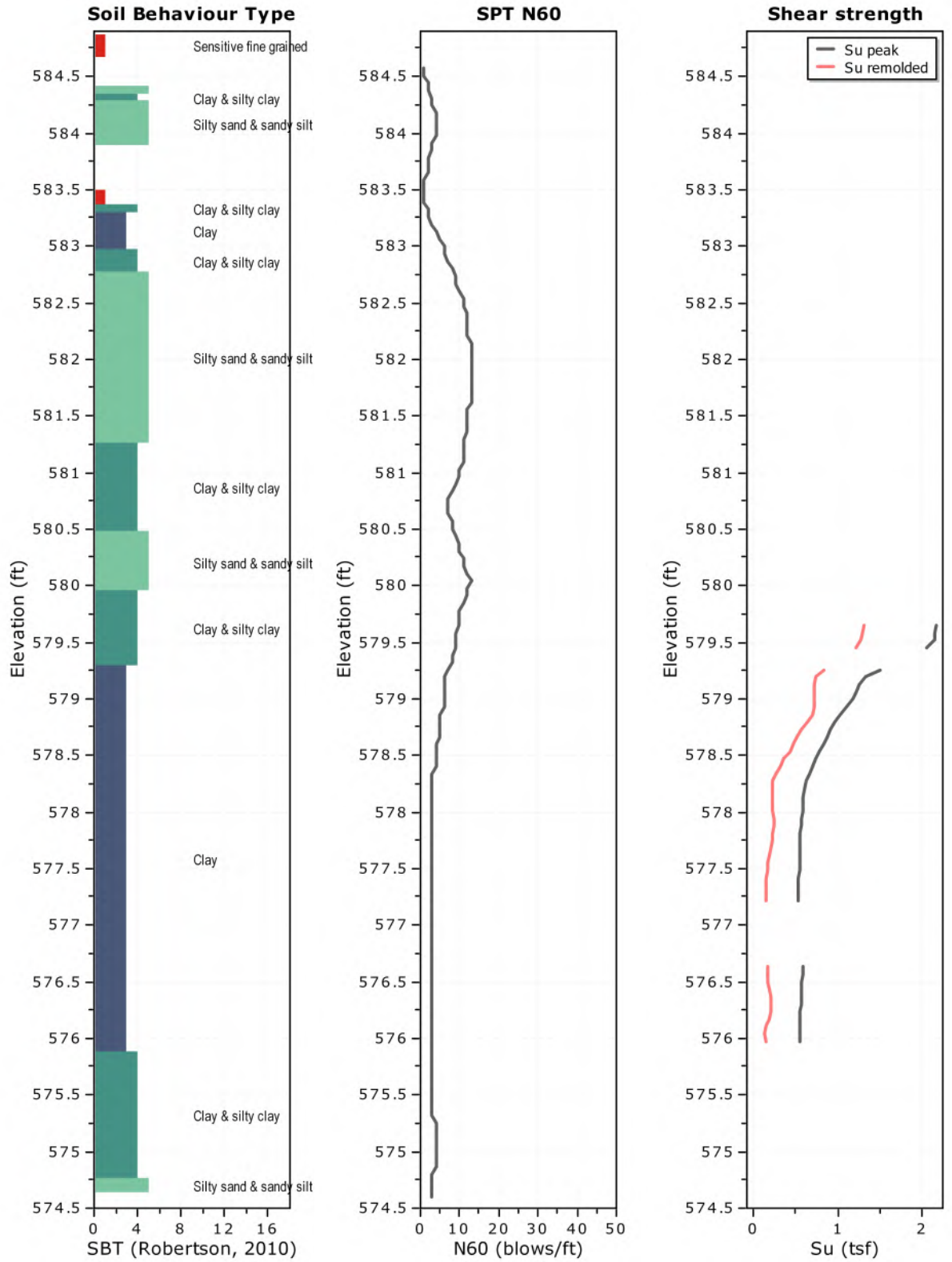
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C820 STA 820+00 @ 37.5 Rt
Total depth: 10.37 ft, Date: 11/10/2020
Surface Elevation: 584.90 ft
Coords: lat 39.820226° lon -89.718558°
Cone Type: HT-0644
Cone Operator: JJJ

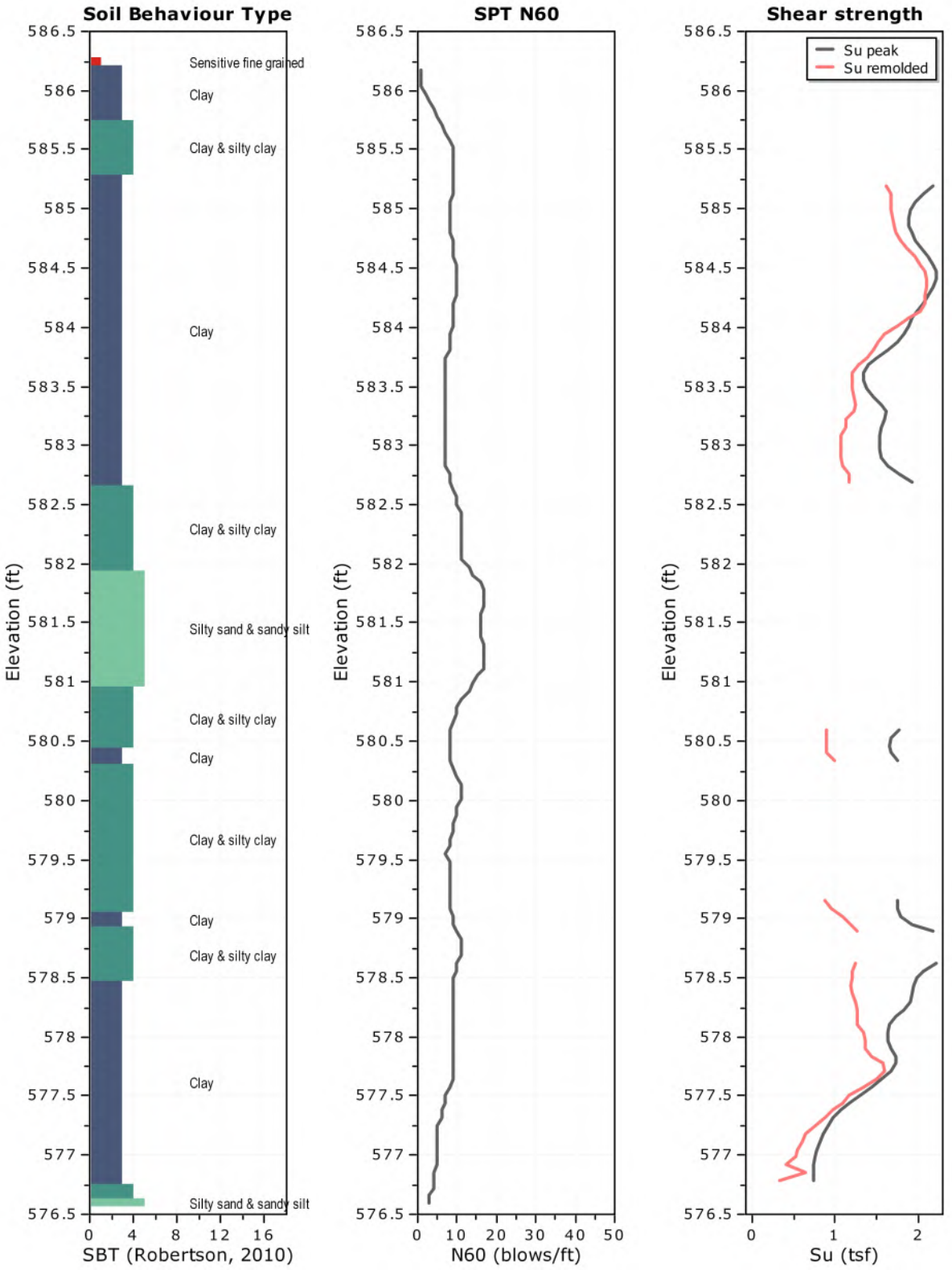
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C825 STA 825+00 @ 37.5 Lt
Total depth: 9.97 ft, Date: 11/11/2020
Surface Elevation: 586.50 ft
Coords: lat 39.819916° lon -89.716811°
Cone Type: HT-0644
Cone Operator: JJJ

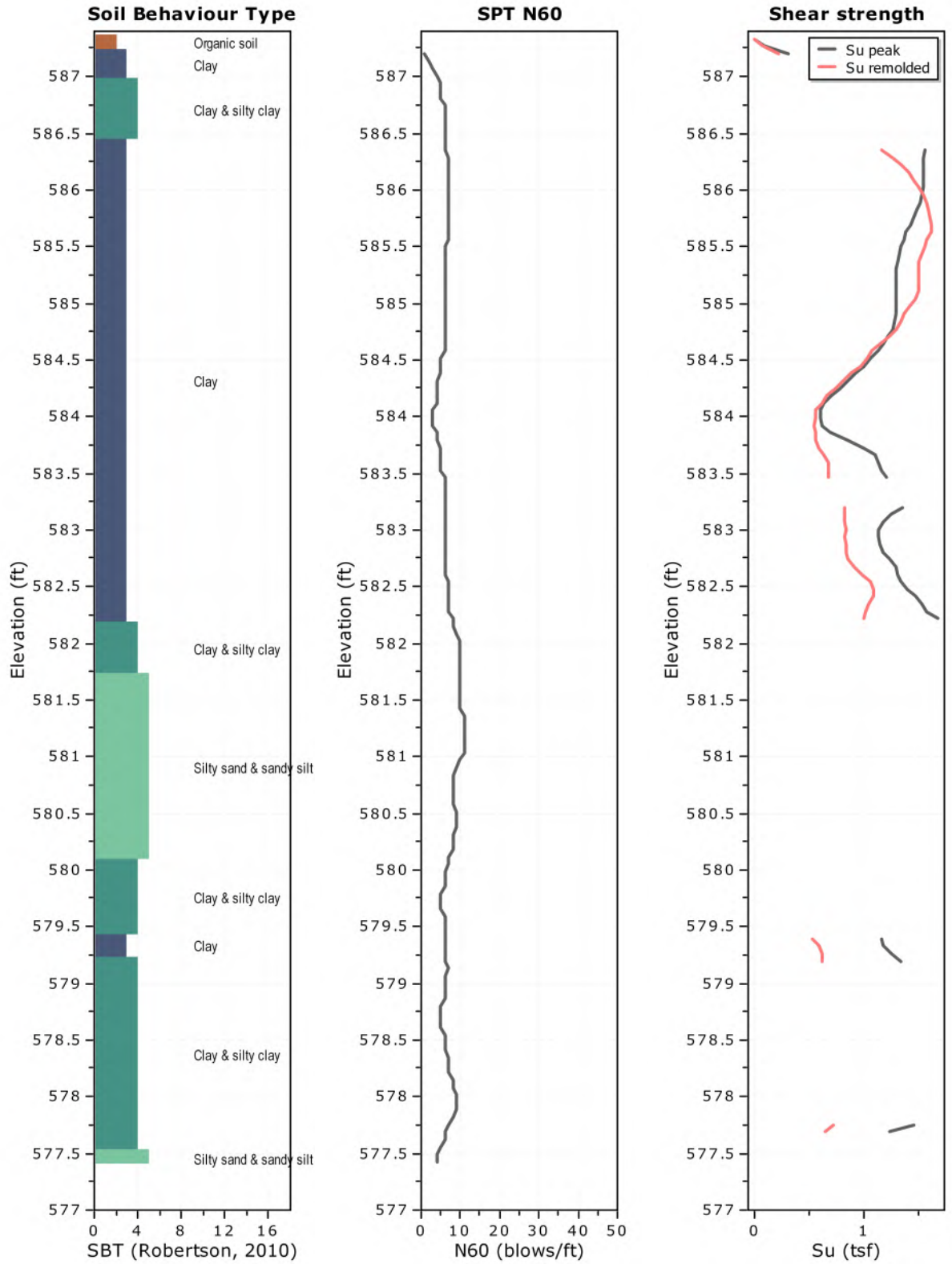
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C830 STA 830+00 @ 37.5 Rt
Total depth: 10.04 ft, Date: 11/11/2020
Surface Elevation: 587.40 ft
Coords: lat 39.819316° lon -89.715201°
Cone Type: HT-0644
Cone Operator: JJJ

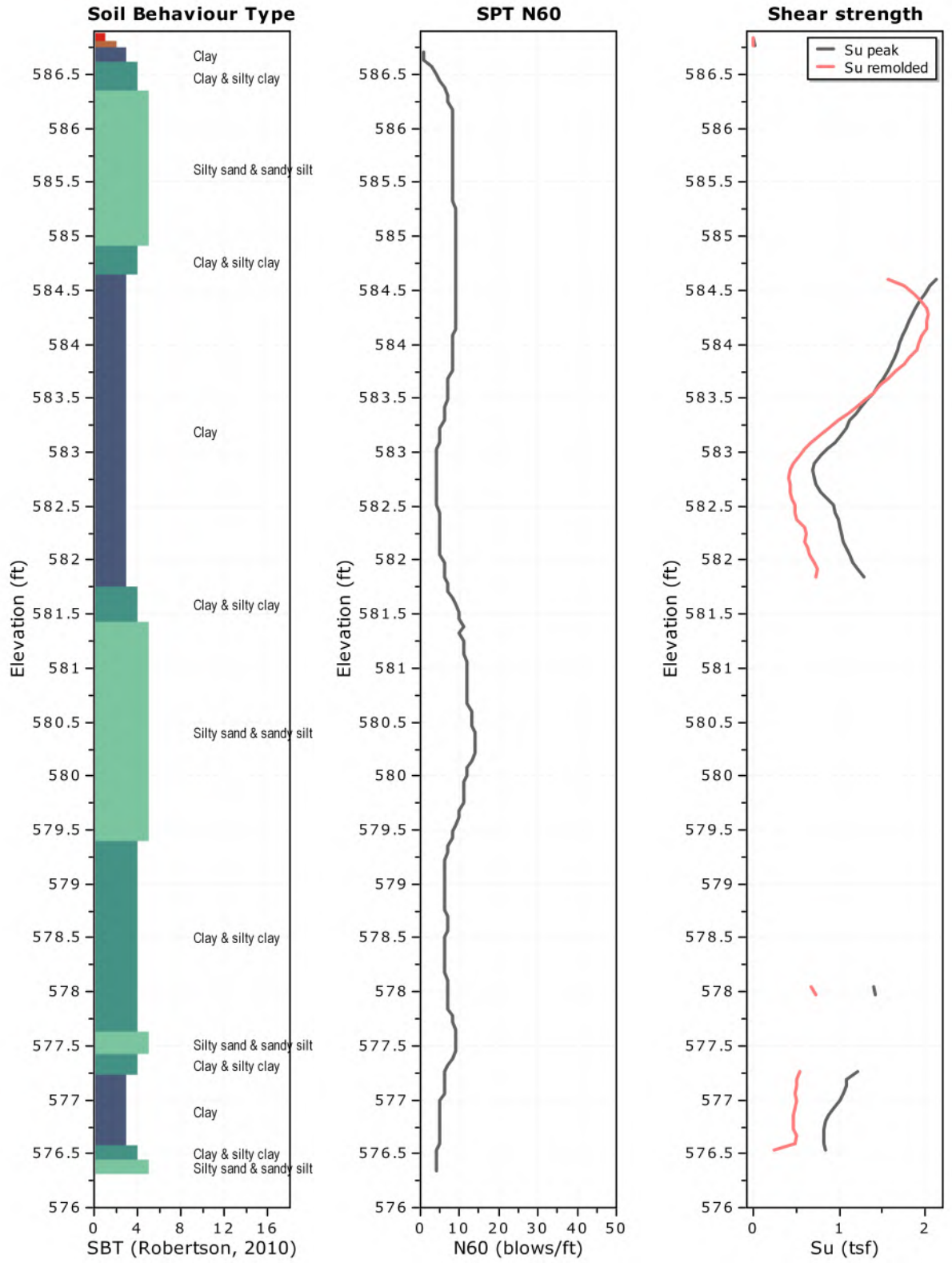
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C835 STA 835+00 @ 37.5 Lt
Total depth: 10.63 ft, Date: 11/11/2020
Surface Elevation: 586.90 ft
Coords: lat 39.819052° lon -89.713439°
Cone Type: HT-0644
Cone Operator: JJJ

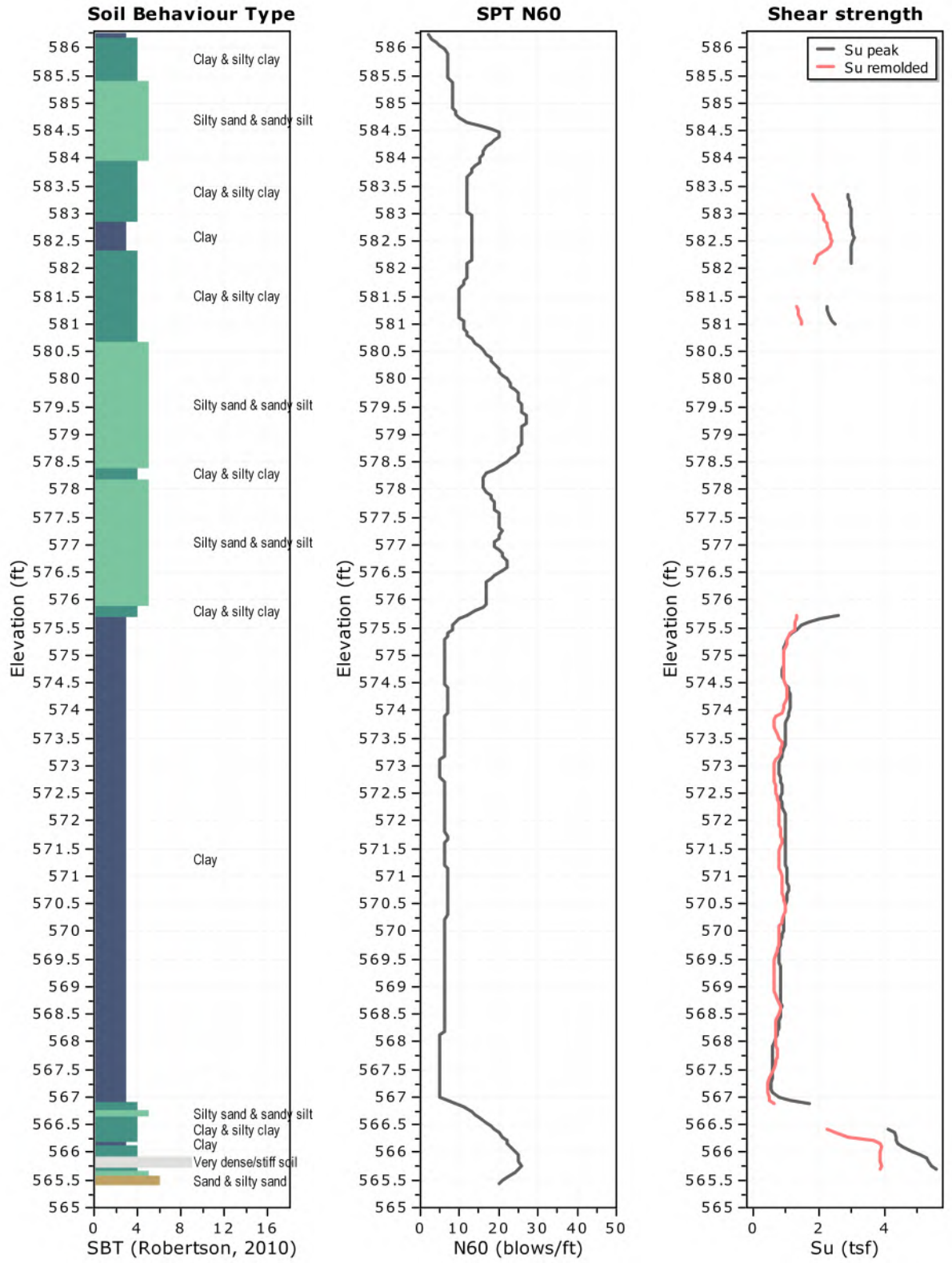
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C843 STA 843+00 @ 14.0 Rt
Total depth: 20.93 ft, Date: 11/13/2020
Surface Elevation: 586.30 ft
Coords: lat 39.818242° lon -89.710775°
Cone Type: HT-0644
Cone Operator: JJJ

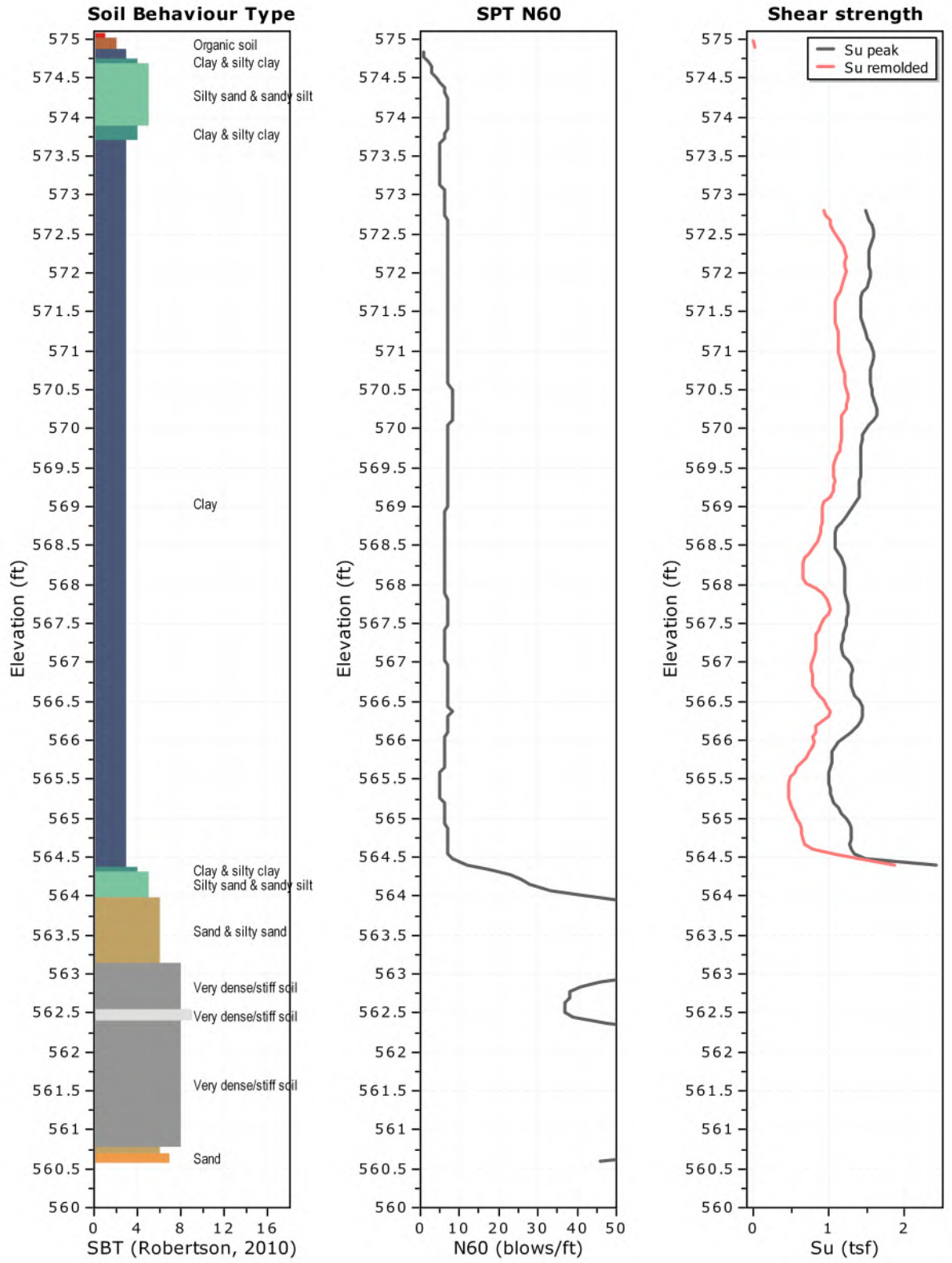
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, Illinois 60123

CPT: C844 STA 844+00 @ 65.0 Lt
Total depth: 14.57 ft, Date: 11/11/2020
Surface Elevation: 575.10 ft
Coords: lat 39.818574° lon -89.710294°
Cone Type: HT-0644
Cone Operator: JJJ

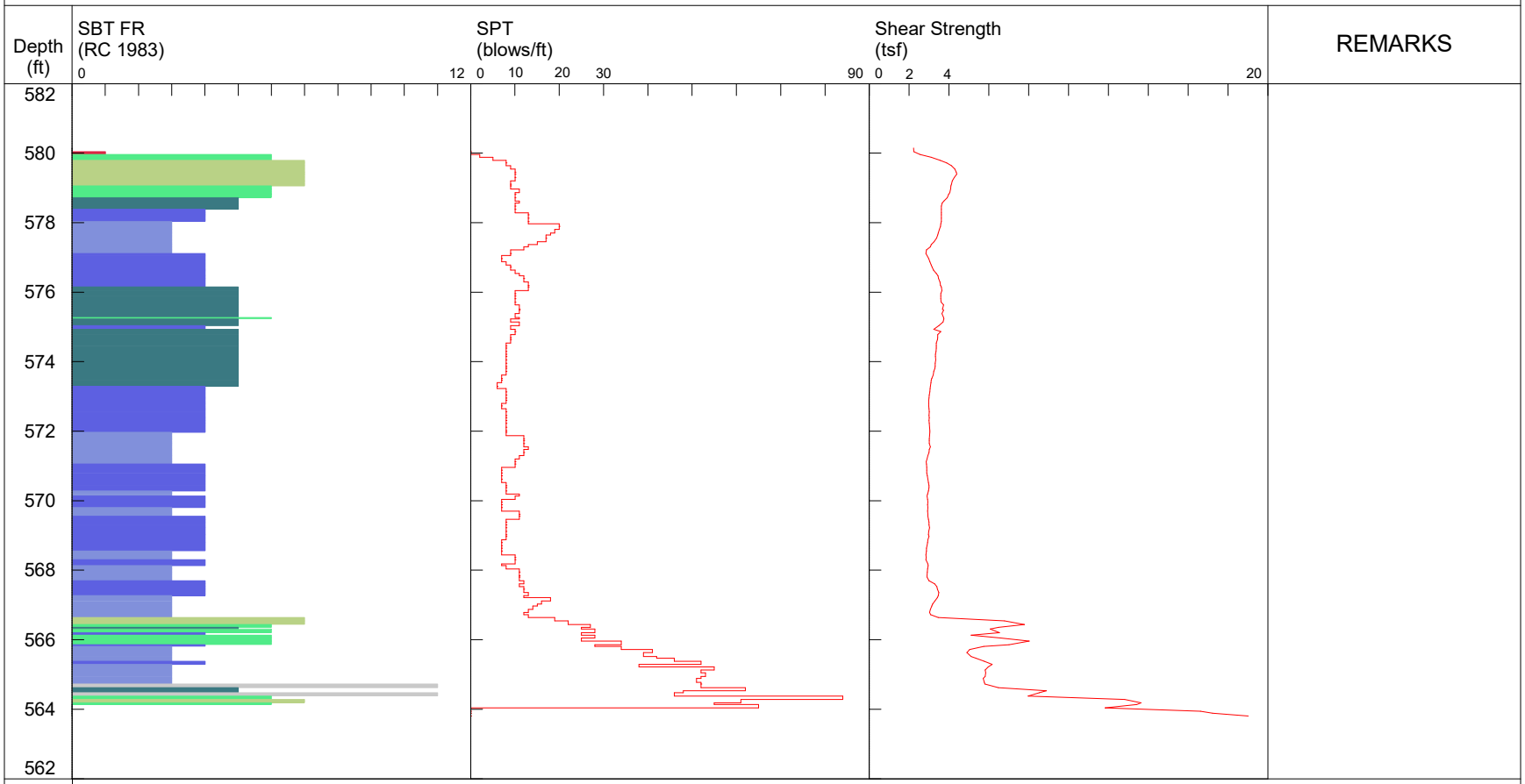
Project: **G20.160 IDOT WO 3 RGR with Seeco**
Location: **Springfield, Illinois**



NW-2

TOTAL DEPTH: 18.35 ft
SITE: il97nw
SOUNDING
COMPANY: Illinois DOT
FILENAME: vertek training1(001).DAT

PROBE ID: 4644.186XX
TEST ID: NW-2
PROJECT: Contract 92621
LOCATION: Sta. 848+00 60' LT



NOTES:: Example of notes

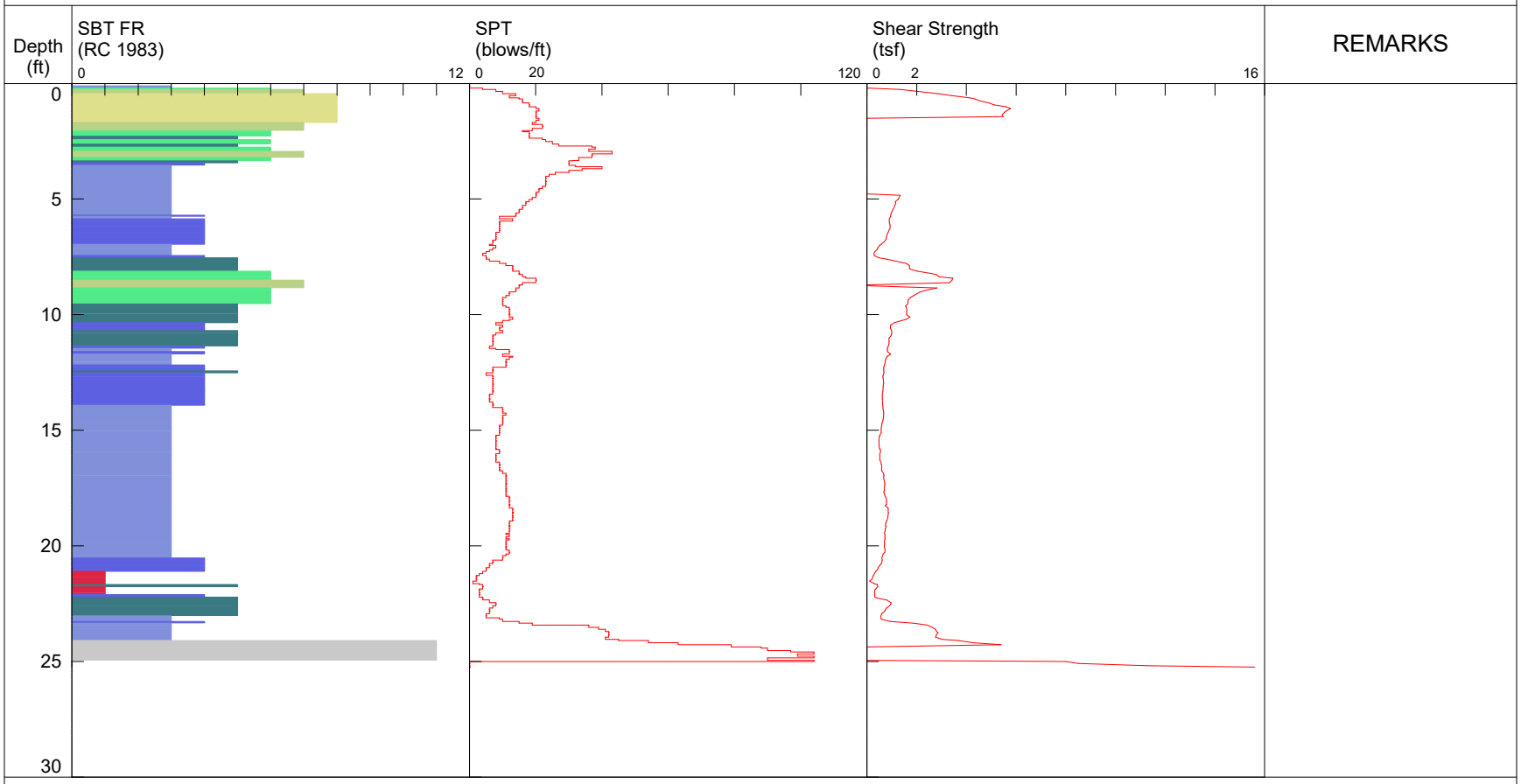
1 sensitive fine grained
2 organic material
3 clay
4 silty clay to clay
5 clayey silt to silty clay
6 sandy silt to clayey silt
7 silty sand to sandy silt
8 sand to silty sand
9 sand
10 gravelly sand to sand
11 very stiff fine grained (*)
12 sand to clayey sand (*)

*SBT/SPT CORRELATION: UBC-1983

NW-3

TOTAL DEPTH: 25 ft
SITE: il97nw
SOUNDING
COMPANY: Illinois DOT
FILENAME: NW-3(001).DAT

PROBE ID: 4644.186XX TEST
ID: NW-3
PROJECT: Contract 92621
LOCATION: Sta 857+00 85' LT



NOTES:: Example of notes

1 sensitive fine grained
2 organic material
3 clay
4 silty clay to clay
5 clayey silt to silty clay
6 sandy silt to clayey silt
7 silty sand to sandy silt
8 sand to silty sand
9 sand
10 gravelly sand to sand
11 very stiff fine grained (*)
12 sand to clayey sand (*)

*SBT/SPT CORRELATION: UBC-1983

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)&W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95

Checked By M. Metcalf

B-1 (10) Date 07/14/98 Logged By M. Tappan

Sta 10+200
O/S 1 m Right

Groundwater _____ m
at Plugged m

Qu kPa	W %	m	Ground Surface 175.34 m
135	16	0.0	
S-12		0.3	Light Reddish Brown Moist SILTY CLAY LOAM
		0.6	CLASSIFICATION # 1
50	22		
S-10		0.9	
		1.2	Grey and Brown Moist
190	19		V. Weathered
P		1.5	CLAY LOAM (Till) CLASSIFICATION # 2
		1.8	
95	19		
B		2.1	
		2.4	
70	18		
B		2.7	
		3.0	
			Boring Completed
		3.3	
		3.6	

B-2 (9) Date 07/14/98 Logged By M. Tappan

Sta 10+300
O/S 10 m Right

Groundwater _____ m
at Plugged m

Qu kPa	W %	m	Ground Surface 174.08 m
115	28	0.0	
S-12		0.3	Brown and Grey Moist SILTY CLAY LOAM (Fill)
		0.6	CLASSIFICATION # 3
115	22		
B		0.9	
		1.2	Brown and Grey Moist
135	25		CLAY LOAM (Till)
B		1.5	Refer Class # 2
		1.8	
145	16		
S-13		2.1	
		2.4	
165	15		
B		2.7	
		3.0	Boring Completed
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-3 (12) Date 07/14/98 Logged By M. Tappan

Sta 10+385 O/S 10 m Right

Groundwater _____ m at Plugged m

Qu kPa	W %	m	Ground Surface 178.27 m
75	26	0.0	Brown and Grey
S-12		0.3	Moist
			SILTY CLAY (Fill)
		0.6	CLASSIFICATION # 4
115	26		
S-12		0.9	
		1.2	
65	24		Light Tan and Grey
S-13		1.5	Moist
			SILT
		1.8	CLASSIFICATION # 5
10	26		
P		2.1	
		2.4	
75	24		
P		2.7	
		3.0	
105	22		Light Greyish Brown Moist
B		3.3	SILTY CLAY LOAM
			CLASSIFICATION # 6
		3.6	
			Boring Completed

B-4 (12) Date 07/14/98 Logged By M. Tappan

Sta 10+500 O/S 10 m Right

Groundwater _____ m at Plugged m

Qu kPa	W %	m	Ground Surface 178.28 m
65	29	0.0	Grey and Brown
B		0.3	Moist
			SILTY CLAY
		0.6	OPTIMUM # 7
105	26		
S-11		0.9	
		1.2	Light Brown and Grey
20	24		Moist
B		1.5	SILT
			OPTIMUM # 8
		1.8	
10	28		
B		2.1	
		2.4	
65	26		
P		2.7	
		3.0	
60	24		Brown Moist
P		3.3	SILTY CLAY
			Refer Class # 6
		3.6	
			Boring Completed

B-5 (9) Date 07/14/98 Logged By M. Tappan

Sta 10+600 O/S 2 m Right

Groundwater _____ m at 24 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 179.09 m
50	24	0.0	V. Dark Grey Moist SILTY CLAY LOAM
P		0.3	Refer Class # 9
			Brown and Grey
		0.6	Moist
40	29		SILTY CLAY
S-10		0.9	Refer Class # 10
		1.2	
65	38		
S-12		1.5	
			Light Brown and Grey
		1.8	Moist
75	23		SILT
S-11		2.1	Refer Class # 11
		2.4	
50	26		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-6 (9) Date 07/14/98 Logged By M. Tappan

Sta 10+700 O/S 10 m Right

Groundwater _____ m at 24 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 179.15 m
75	22	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-11		0.3	Refer Class # 9
		0.6	Brown and Grey
95	28		Moist
S-14		0.9	SILTY CLAY
			Refer Class # 10
		1.2	
75	25		Light Brown and Grey
B		1.5	Moist
			SILT
		1.8	Refer Class # 11
65	23		
B		2.1	
		2.4	
10	25		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95

Checked By M. Metcalf

B-7 (9)
Date 07/14/98
Logged By M. Tappan
Sta 10+800
O/S 20 m Left
Groundwater ____ m
at 24 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 179.18 m
105	25	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-14		0.3	Refer Class # 9
		0.6	Brown and Dark Grey
85	32		Moist
S-15		0.9	SILTY CLAY
			Refer Class # 10
		1.2	
75	31		Grey and Brown
B		1.5	
			Light Brown and Grey
		1.8	Moist
40	25		SILT
B		2.1	Refer Class # 11
		2.4	
40	28		
P		2.7	
			Boring Complete
		3.0	
		3.3	
		3.6	

B-8 (9)
Date 07/14/98
Logged By M. Tappan
Sta 10+900
O/S 29 m Left
Groundwater ____ m
at 24 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 179.18 m
125	23	0.0	
S-10		0.3	V. Dark Grey Moist SILTY CLAY LOAM CLASSIFICATION # 9
		0.6	
95	32		Grey and Brown
S-15		0.9	Moist SILTY CLAY
		1.2	CLASSIFICATION # 10
65	28		
B		1.5	
			Light Brown and Grey
		1.8	Moist
95	25		SILT
P		2.1	CLASSIFICATION # 11
		2.4	
50	32		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-9 (9)
Date 07/14/98
Logged By M. Tappan
Sta 11+000
O/S 10 m Left
Groundwater ____ m
at 24 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 178.88 m
40	31	0.0	
B		0.3	Brown and Grey Moist SILTY CLAY
		0.6	CLASSIFICATION # 12
50	27		
B		0.9	Brown and Grey
			Moist
		1.2	SILTY CLAY
10	29		CLASSIFICATION # 13
B		1.5	
		1.8	
145	27		
P		2.1	
		2.4	
95	23		Brownish Grey Moist SILTY CLAY LOAM
B		2.7	CLASSIFICATION # 14
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-10 ( ) ✓ Date 06/26/98 Logged By M. Tappan

Sta 11+100
O/S 10 m Right

Groundwater at 96 Hrs: ____ m / 178.31 m

Qu kPa	W %	m	Ground Surface 178.61 m
40	31	0.0	Brown and Grey
S-10		0.3	Moist SILTY CLAY
			Refer Class # 16
		0.6	
30	25		Light Brown and Grey
B		0.9	Moist
			SILT
		1.2	Refer Class # 17
50	33		
B		1.5	
		1.8	
165	23		
B		2.1	
		2.4	V. Moist
95	23		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-11 ( ) ✓ Date 06/26/98 Logged By M. Tappan

Sta 11+200
O/S 5 m Left

Groundwater at: ____ m / Plugged m

Qu kPa	W %	m	Ground Surface 178.68 m
95	23	0.0	Dark Brownish Grey
S-13		0.3	Moist SILTY CLAY LOAM
			Refer Class # 15
		0.6	
75	26		Brown and Grey
B		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 16
65	26		
B		1.5	
		1.8	
30	32		Light Brown and Grey
P		2.1	V. Moist
			SILT
		2.4	Refer Class # 17
75	27		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-12 ( ) ✓ Date 06/26/98 Logged By M. Tappan

Sta 11+300
O/S 10 m Right

Groundwater at 96 Hrs: ____ m / 179.46 m

Qu kPa	W %	m	Ground Surface 180.56 m
50	19	0.0	Dark Brownish Grey
S-10		0.3	Moist SILTY CLAY LOAM
			Refer Class # 15
		0.6	
50	30		Brown and Grey
S-12		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 16
40	32		
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
30	27		SILT
P		2.1	Refer Class # 17
		2.4	
40	26		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-13 ( ) ✓ Date 06/26/98 Logged By M. Tappan

Sta 11+400
O/S 10 m Left

Groundwater at 96 Hrs: ____ m / 179.98 m

Qu kPa	W %	m	Ground Surface 180.78 m
50	31	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-13		0.3	CLASS # 15
		0.6	Brown and Grey
85	28		Moist
S-14		0.9	SILTY CLAY
			CLASS # 16
		1.2	
65	30		Light Brown
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
50	27		SILT
B		2.1	CLASS # 17
		2.4	
40	26		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-14 ( ) Date 06/26/98
Logged By M. Tappan
Sta 11+500 ✓
O/S 10 m Right
Groundwater at 96 Hrs ____ m / 180.30 m

Qu kPa	W %	m	Ground Surface 181.20 m
30	24	0.0	V. Dark Grey
S-12		0.3	Moist SILTY CLAY LOAM
			Refer Class # 18
		0.6	
115	28		Brown and Grey
S-14		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 19
20	30		
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
75	25		SILT
B		2.1	Refer Class # 20
		2.4	
10	29		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-15 ( ) Date 06/26/98
Logged By M. Tappan
Sta 11+600 ✓
O/S 10 m Left
Groundwater at 96 Hrs ____ m / 180.60 m

Qu kPa	W %	m	Ground Surface 181.20 m
60	29	0.0	V. Dark Grey
S-13		0.3	Moist SILTY CLAY LOAM
			Refer Class # 18
		0.6	
95	28		Brown and Grey
B		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 19
30	29		Light Brown and Grey
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
75	24		SILT
S-15		2.1	Refer Class # 20
		2.4	
75	26		
S-15		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-16 ( ) Date 06/26/98
Logged By M. Tappan
Sta 11+700 ✓
O/S 10 m Right
Groundwater at 96 Hrs ____ m / 180.65 m

Qu kPa	W %	m	Ground Surface 181.55 m
40	27	0.0	V. Dark Grey
S-11		0.3	Moist SILTY CLAY LOAM
			Refer Class # 18
		0.6	
65	28		Brown and Grey
B		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 19
20	30		Light Brown and Grey
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
20	24		SILT
B		2.1	Refer Class # 20
		2.4	
20	26		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-17 ( ) Date 06/26/98
Logged By M. Tappan
Sta 11+800 ✓
O/S 10 m Left
Groundwater at 96 Hrs ____ m / 180.68 m

Qu kPa	W %	m	Ground Surface 181.58 m
75	22	0.0	V. Dark Grey
S-10		0.3	Moist SILTY CLAY LOAM
			CLASS # 18
		0.6	Light Brown
65	31		Moist SILTY CLAY
S-14		0.9	CLASS # 19
		1.2	Light Brown and Grey Mottled
95	24		Moist
P		1.5	SILT
			CLASS # 20
		1.8	
75	28		
P		2.1	
		2.4	
25	25		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-18 ( ) Date 06/26/98 Logged By M. Tappan

Sta 11+900 O/S 10 m Right

Groundwater at 96 Hrs ____ m / 180.91 m

Qu kPa	W %	m	
		0.0	Ground Surface 181.71 m
75	25		V. Dark Grey
S-11		0.3	Moist SILTY CLAY LOAM
			Refer Class # 22
		0.6	
10	28		Brown and Grey
P		0.9	Moist
			SILTY CLAY LOAM
		1.2	Refer Class # 23
20	29		V. Moist
B		1.5	
			Light Brown and Grey
		1.8	V. Moist SILTY CLAY LOAM
75	25		Refer Class # 21
B		2.1	
			Light Brown and Grey
		2.4	Wet
50	29		SILT
P		2.7	Refer Class # 24
			Boring Completed
		3.0	
		3.3	
		3.6	

B-19 ( ) Date 06/26/98 Logged By M. Tappan

Sta 12+000 O/S 10 m Left

Groundwater at 96 Hrs ____ m / 181.15 m

Qu kPa	W %	m	
		0.0	Ground Surface 182.05 m
50	25		V. Dark Grey
S-10		0.3	Moist SILTY CLAY
			Refer Class # 22
		0.6	
115	31		Brown and Grey
B		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 23
60	31		
B		1.5	
			Light Brown and Grey V. Moist
		1.8	SILT LOAM
30	26		CLASS # 21
P		2.1	
			Light Brown and Grey
		2.4	Wet
20	28		SILT
P		2.7	Refer Class # 24
			Boring Completed
		3.0	
		3.3	
		3.6	

B-20 ( ) Date 06/26/98 Logged By M. Tappan

Sta 12+100 O/S 10 m Right

Groundwater at 96 Hrs ____ m / 181.35 m

Qu kPa	W %	m	
		0.0	Ground Surface 182.15 m
60	24		V. Dark Grey
S-12		0.3	Moist
			SILTY CLAY LOAM
		0.6	Refer Class # 22
105	28	0.9	
B			Brown and Grey
		1.2	Moist
30	29		SILTY CLAY LOAM
P		1.5	Refer Class # 23
		1.8	
10	28		Light Brown and Grey
P		2.1	Wet
			SILT
		2.4	Refer Class # 24
40	30		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-21 ( ) Date 06/26/98 Logged By M. Tappan

Sta 12+200 O/S 10 m Left

Groundwater at 96 Hrs ____ m / 181.26 m

Qu kPa	W %	m	
		0.0	Ground Surface 182.16 m
40	20		V. Dark Grey
S-11		0.3	Moist SILTY CLAY LOAM
			CLASS # 22
		0.6	
60	26		Brown and Grey
S-13		0.9	Moist
			SILTY CLAY LOAM
		1.2	CLASS # 23
105	30		
B		1.5	
			Light Brown and Grey
		1.8	Wet
50	38		SILT
P		2.1	CLASS # 24
		2.4	
30	28		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)&W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-22 (9)

Date 06/26/98
Logged By M. Tappan

Sta 12+300
S 10 m Right

Groundwater _____ m
at 96 Hrs 181.3 m

Qu kPa	W %	m	
		0.0	Ground Surface 181.60 m
60	28		V. Dark Grey Moist SILTY CLAY
B		0.3	Refer Class # 26
		0.6	Brown and Grey Mottled
50	32		Moist
B		0.9	SILTY CLAY
			Refer Class # 27
		1.2	
40	26		
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
30	26		SILT
B		2.1	Refer Class # 25
		2.4	
20	26		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95

Checked By M. Metcalf

B-23 (9)
Sta 12+400
O/S 10 m Left
Date 06/26/98
Logged By M. Tappan
Groundwater at 96 Hrs 180.7 m

Qu kPa	W %	m	
		0.0	Ground Surface 181.25 m
85	25		V. Dark Grey Moist SILTY CLAY
B		0.3	Refer Class # 26
		0.6	Brown and Grey Mottled
95	30		Moist
S-14		0.9	SILTY CLAY
			Refer Class # 27
		1.2	
40	32		
B		1.5	
		1.8	Light Brown and Grey
20	29		V. Moist
B		2.1	SILT
			Refer Class # 25
		2.4	
10	29		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-24 (9)
Sta 12+500
O/S 10 m Right
Date 06/26/98
Logged By M. Tappan
Groundwater at 96 Hrs 180.6 m

Qu kPa	W %	m	
		0.0	Ground Surface 180.86 m
75	24		V. Dark Grey Moist
S-9		0.3	SILTY CLAY
			Refer Class # 26
		0.6	
85	28		Grey and Brown
S-15		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 27
50	29		
B		1.5	
		1.8	Light Brown and Grey
65	27		V. Moist
B		2.1	SILT
			CLASSIFICATION # 25
		2.4	
40	26		
S-11		2.7	
			Boring Complete
		3.0	
		3.3	
		3.6	

B-25 (9)
Sta 12+600
O/S 10 m Leftt
Date 06/26/98
Logged By M. Tappan
Groundwater at 96 Hrs 179.7 m

Qu kPa	W %	m	
		0.0	Ground Surface 180.58 m
105	22		V. Dark Grey Moist
S-10		0.3	SILTY CLAY
			CLASSIFICATION # 26
		0.6	
75	30		Grey and Brown
S-12		0.9	Moist
			SILTY CLAY
		1.2	CLASSIFICATION # 27
40	28		
B		1.5	Light Tannish Grey V. Moist
			SILTY CLAY LOAM
		1.8	CLASSIFICATION # 28
10	29		Tan and Grey -Free Water
P		2.1	Wet
			SILT
		2.4	CLASSIFICATION # 29
10	28		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-26 (9)
Sta 12+700
O/S 6 m Left
Date 07/01/98
Logged By M. Tappan
Groundwater at 24 Hrs 179.6 m

Qu kPa	W %	m	
		0.0	Ground Surface 180.67 m
50	27		V. Dark Grey Moist
S-8		0.3	SILTY CLAY LOAM
			CLASSIFICATION # 30
		0.6	
60	28		Brown and Grey
S-10		0.9	Moist
			SILTY CLAY
		1.2	CLASSIFICATION # 31
50	30		
S-11		1.5	
			Light Brown and Grey
		1.8	Moist
50	27		SILT
P		2.1	CLASSIFICATION # 32
		2.4	
95	26		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-27 (9) Date 07/01/98
Logged By M. Tappan
Sta 12+800
O/S 10 m Right
Groundwater _____ m
at 24 Hrs 179.4 m

Qu kPa	W %	m	Ground Surface 180.62 m
50	24	0.0	
S-10		0.3	V. Dark Grey Moist SILTY CLAY LOAM Refer Class # 30
		0.6	
65	27		Brown and Grey Moist
S-10		0.9	SILTY CLAY Refer Class # 31
		1.2	
50	28		Light Brown and Grey
P		1.5	Moist SILT
		1.8	Refer Class # 32
50	27		
P		2.1	V. Moist
		2.4	
75	27		
B		2.7	
		3.0	Boring Completed
		3.3	
		3.6	

B-28 (9) Date 07/01/98
Logged By M. Tappan
Sta 12+900
O/S 10 m Left
Groundwater _____ m
at 24 Hrs 180.0 m

Qu kPa	W %	m	Ground Surface 181.15 m
115	24	0.0	
S-10		0.3	V. Dark Grey Moist SILTY CLAY LOAM Refer Class # 30
		0.6	
60	29		Brown and Grey
S-9		0.9	Moist SILTY CLAY
		1.2	Refer Class # 31
40	29		
S-10		1.5	
			Light Brown and Grey
		1.8	V. Moist SILT
40	27		
B		2.1	Refer Class # 32
		2.4	
65	26		
B		2.7	
		3.0	Boring Completed
		3.3	
		3.6	

B-29 (9) Date 07/01/98
Logged By M. Tappan
Sta 13+000
O/S 10 m Right
Groundwater _____ m
at 24 Hrs 179.2 m

Qu kPa	W %	m	Ground Surface 180.26 m
40	26	0.0	
S-12		0.3	V. Dark Grey Moist SILTY CLAY LOAM Refer Class # 30
		0.6	
50	29		Brown and Grey
S-10		0.9	Moist SILTY CLAY
		1.2	Refer Class # 31
40	32		
S-12		1.5	
			Light Brown and Grey
		1.8	Moist SILT
40	28		
B		2.1	Refer Class # 32
		2.4	
75	27		
S-14		2.7	
		3.0	Boring Completed
		3.3	
		3.6	

B-30 (9) Date 07/01/98
Logged By M. Tappan
Sta 13+100
O/S 10 m Left
Groundwater _____ m
at 24 Hrs 179.5 m

Qu kPa	W %	m	Ground Surface 180.39 m
50	26	0.0	
S-10		0.3	V. Dark Grey Moist SILTY CLAY CLASSIFICATION # 33
		0.6	
40	31		Brown and Grey Moist
S-10		0.9	SILTY CLAY CLASSIFICAITON # 34
		1.2	
75	24		Brown and Grey
S-6		1.5	Moist SILT LOAM
		1.8	CLASSIFICATION # 35
95	27		
S-12		2.1	
		2.4	
95	26		
S-12		2.7	
		3.0	Boring Completed
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
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ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95

Checked By M. Metcalf

B-31 (9) Date 07/01/98
Logged By M. Tappan
Sta 13+200
O/S 10 m Right
Groundwater ____ m
at 24 Hrs 179.7 m

Qu kPa	W %	m 0.0	Ground Surface 180.61 m
50	30		V. Dark Grey Moist SILTY CLAY
S-10		0.3	Refer Class # 33
		0.6	Brown and Grey
75	29		Moist
S-7		0.9	SILTY CLAY
			Refer Class # 34
		1.2	
40	30		
B		1.5	
			Light Brown and Grey
		1.8	V. Moist
20	29		SILT LOAM
P		2.1	Refer Class # 35
		2.4	
50	29		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-32 (9) Date 07/01/98
Logged By M. Tappan
Sta 13+300
O/S 10 m Right
Groundwater ____ m
at 24 Hrs 179.7 m

Qu kPa	W %	m 0.0	Ground Surface 180.62 m
60	30		V. Dark Grey Moist SILTY CLAY
S-8		0.3	Refer Class # 33
		0.6	Brown and Grey Moist SILTY CLAY
40	25		Refer Class # 34
S-8		0.9	
			Light Brown and Grey
		1.2	Moist
40	27		SILT LOAM
S-6		1.5	Refer Class # 35
		1.8	
115	25		
S-8		2.1	
		2.4	
145	26		
S-11		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-33 (9) Date 07/01/98
Logged By M. Tappan
Sta 13+400
O/S 10 m Right
Groundwater ____ m
at 24 Hrs 179.7 m

Qu kPa	W %	m 0.0	Ground Surface 180.86 m
40	28		V. Dark Grey Moist SILTY CLAY
S-5		0.3	Refer Class # 33
		0.6	Brown and Grey
60	28		Moist
S-8		0.9	SILTY CLAY
			Refer Class # 34
		1.2	
75	26		Light Brown and Grey
B		1.5	Moist
			SILT LOAM
		1.8	Refer Class # 35
40	26		
B		2.1	
		2.4	
60	28		
S-10		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-34 (9) Date 07/01/98
Logged By M. Tappan
Sta 13+500
O/S 10 m Left
Groundwater ____ m
at Plugged m

Qu kPa	W %	m 0.0	Ground Surface 181.03 m
50	25		V. Dark Grey Moist
S-6		0.3	SILTY CLAY
			Refer Class # 33
		0.6	
65	27		Brown and Grey
S-12		0.9	Moist
			SILTY CLAY
		1.2	Refer Class # 34
30	27		
S-10		1.5	
			Light Brown and Grey
		1.8	Moist
65	24		SILT LOAM
S-10		2.1	Refer Class # 35
		2.4	
95	24		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
Soil Survey Borings

ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95

Checked By M. Metcalf

B-35 (9) Date 07/01/99
Logged By M. Tappan
Sta 13+600 ✓
O/S 10 m Right
Groundwater _____ m
at Plugged m

Qu kPa	W %	m	Ground Surface 181.34 m
50	25	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-7		0.3	CLASSIFICATION # 36
		0.6	Brown and Grey
60	27		Moist
S-11		0.9	SILTY CLAY
			CLASSIFICATION # 37
		1.2	
50	31		
B		1.5	
			Light Brown and Grey
		1.8	Moist
50	25		SILT
S-10		2.1	CLASSIFICATION # 38
		2.4	
75	26		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-36 (9) ✓ Date 07/02/98
Logged By M. Tappan
Sta 13+700
O/S 10 m Left
Groundwater _____ m
at 96 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 181.65 m
50	21	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-6		0.3	Refer Class # 36
		0.6	Brown and Grey
65	29		Moist
S-10		0.9	SILTY CLAY
			Refer Class # 37
		1.2	
50	28		
S-12		1.5	
			Light Brown and Grey
		1.8	Moist
95	25		SILT
P		2.1	Refer Class # 38
		2.4	V. Moist
30	29		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-37 (9) ✓ Date 07/02/98
Logged By M. Tappan
Sta 13+800
O/S 10 m Right
Groundwater _____ m
at 96 Hrs Plugged m

Qu kPa	W %	m	Ground Surface 181.43 m
40	22	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-5		0.3	Refer Class # 36
		0.6	Brown and Grey
40	30		Moist
S-6		0.9	SILTY CLAY
			Refer Class # 37
		1.2	
30	30		
B		1.5	
			Tan and Grey
		1.8	V. Moist
40	27		SILT
B		2.1	Refer Class # 38
		2.4	
60	28		
B		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-38 (9) ✓ Date 07/02/98
Logged By M. Tappan
Sta 13+900
O/S 10 m Left
Groundwater _____ m
at 96 Hrs 180.5 m

Qu kPa	W %	m	Ground Surface 181.25 m
40	22	0.0	V. Dark Grey Moist SILTY CLAY LOAM
S-5		0.3	Refer Class # 36
		0.6	Brown and Grey
50	31		Moist
S-5		0.9	SILTY CLAY
			Refer Class # 37
		1.2	
40	29		
S-12		1.5	
			Tan and Grey
		1.8	V. Moist
95	24		SILT
S-13		2.1	Refer Class # 38
		2.4	
145	25		
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
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ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-39 (9) Date 07/02/98
Logged By M. Tappan
Sta 14+00
O/S 10 m Right
Groundwater at 96 Hrs 179.9 m

Qu kPa	W %	m	
		0.0	Ground Surface 180.75 m
50	26		V. Dark Grey Moist SILTY CLAY LOAM
S-5		0.3	Refer Class # 36
		0.6	Brown and Grey
40	31		Moist
S-10		0.9	SILTY CLAY
			Refer Class # 37
		1.2	
50	33		
B		1.5	
			Brown and Grey
		1.8	V. Moist
95	26		SILT
S-10		2.1	Refer Class # 38
		2.4	
105	31		
S-12		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-40 (9) Date 07/02/98
Logged By M. Tappan
Sta 14+100
O/S 10 m Left
Groundwater at 96 Hrs 178.6 m

Qu kPa	W %	m	
		0.0	Ground Surface 180.05 m
50	25		V. Dark Grey Moist SILTY CLAY LOAM
S-6		0.3	CLASSIFICATION # 39
		0.6	Brown and Grey
60	28		Moist
S-10		0.9	SILTY CLAY
			CLASSIFICATION # 40
		1.2	
50	29		
B		1.5	
			Tan and Grey
		1.8	Moist
95	26		SILT
S-10		2.1	CLASSIFICATION # 41
		2.4	
105	31		
S-12		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-41 (9) Date 07/02/98
Logged By M. Tappan
Sta 14+200
O/S 10 m Right
Groundwater at 96 Hrs 178.4 m

Qu kPa	W %	m	
		0.0	Ground Surface 179.85 m
95	21		V. Dark Grey Moist SILTY CLAY LOAM
S-13		0.3	Refer Class # 39
			Brown and Grey
		0.6	Moist
40	27		SILTY CLAY
S-10		0.9	Refer Class # 40
		1.2	
50	30		
B		1.5	
			Tan and Grey
		1.8	V. Moist
10	29		SILT
B		2.1	Refer Class # 41
		2.4	Tan and Grey V. Moist SILT LOAM
95	25		CLASSIFICATION # 44
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B-42 (9) Date 07/02/98
Logged By M. Tappan
Sta 14+300
O/S 10 m Left
Groundwater at Plugged m

Qu kPa	W %	m	
		0.0	Ground Surface 179.46 m
65	24		V. Dark Grey Moist SILTY CLAY LOAM
S-14		0.3	Refer Class # 39
			Brown and Grey Moist SILTY CLAY
		0.6	Refer Class # 40
30	27		Brown and Grey
S-9		0.9	Moist
			SILT
		1.2	Refer Class # 41
75	31		
S-15		1.5	
		1.8	
105	27		
B		2.1	
			Grey V. Moist
		2.4	SILT LOAM
60	24		Refer Class # 42
P		2.7	
			Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

ILLINOIS DEPARTMENT OF TRANSPORTATION
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ROUTE FAP 34 (IL 97)
SECTION S(X)+W(X,TS)
COUNTY Sangamon

PROJECT D96-501-95
Checked By M. Metcalf

B-43 (9) Date 07/02/98 Logged By M. Tappan

Sta 14+400 O/S 10 m Right

Groundwater at 96 Hrs 180.0 m

Qu kPa	W %	m	Ground Surface 180.88 m
50	22	0.0	
S-14		0.3	V. Dark Grey Moist SILTY CLAY LOAM Refer Class # 39
		0.6	Brown and Grey Moist SILTY CLAY
40	27	0.9	
S-12			Refer Class # 40
		1.2	Tan and Grey
50	27		Moist
B		1.5	SILT
		1.8	Refer Class # 41
40	27		
B		2.1	
		2.4	
200	24		
S-14		2.7	Boring Completed
		3.0	
		3.3	
		3.6	

B-44 (9) Date 07/02/98 Logged By M. Tappan

Sta 14+500 O/S 10 m Left

Groundwater at 96 Hrs 181.1 m

Qu kPa	W %	m	Ground Surface 181.66 m
40	24	0.0	
S-12		0.3	V. Dark Grey Moist SILTY CLAY LOAM CLASSIFICATION # 43
		0.6	Brown and Grey Moist SILTY CLAY
50	31	0.9	
S-11			CLASSIFICATION # 44
		1.2	Light Brown and Grey
30	28		V. Moist
P		1.5	SILT
		1.8	CLASSIFICATION # 45
95	26		
P		2.1	
		2.4	
20	31		
P		2.7	Boring Completed
		3.0	
		3.3	
		3.6	

B-45 (9) Date 07/02/98 Logged By M. Tappan

Sta 14+600 O/S 10 m Right

Groundwater at 96 Hrs 181.8 m

Qu kPa	W %	m	Ground Surface 182.43 m
20	25	0.0	
S-8		0.3	V. Dark Grey Moist SILTY CLAY LOAM Refer Class # 43
		0.6	Brown and Grey Moist SILTY CLAY
60	25	0.9	
S-13			Refer Class # 44
		1.2	Light Brown and Grey
75	27		V. Moist
P		1.5	SILT
		1.8	Refer Class # 45
50	25		
B		2.1	
		2.4	
10	25		
B		2.7	Boring Completed
		3.0	
		3.3	
		3.6	

B-46 (9) Date 07/02/98 Logged By M. Tappan

Sta 14+700 O/S 2 m Right

Groundwater at 96 Hrs 182.2 m

Qu kPa	W %	m	Ground Surface 182.95 m
40	22	0.0	
S-8		0.3	V. Dark Grey Moist SILTY CLAY LOAM Refer Class # 43
		0.6	Brown and Grey Moist SILTY CLAY
65	30	0.9	
S-11			Refer Class # 44
		1.2	
50	30		
B		1.5	Brown and Grey V. Moist SILT
		1.8	Refer Class # 45
10	30		
P		2.1	
		2.4	
50	25		
P		2.7	Boring Completed
		3.0	
		3.3	
		3.6	

B- Bulge S- Shear P- Penetrometer E- Estimated

Appendix A.6 Soil Testing

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	1	2	3	4	5
Lab No.	98172	98173	98174	98175	98176
Station	10+200	10+200	10+300	10+385	10+385
Location	1 m Rt	1 m Rt	10 m Rt	10 m Rt	10 m Rt
Depth (Meters)	0 - 0.9	0.9-3.0	0-0.9	0-1.2	1.2-3.0
HRB Classification & Group Index	A-6(13)	A-6(8)	A-6(12)	A-7-6(24)	A-6(10)
Grain Size Classification	SiCL	CL	SiCL	SiC	Silt
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	98.04	90.78	98.06	99.66	99.68
0.150 mm Sieve	93.92	74.42	93.66	99.20	99.64
0.075mm Sieve	92.42	67.64	91.62	98.72	99.28
Sand	8.0	32.0	8.0	1.0	1.0
Silt	72.0	39.0	69.0	65.0	84.0
Clay	20.0	29.0	23.0	34.0	15.0
Liquid Limit	30.6	33.2	31.8	42.5	27.7
Plasticity Index	17.5	16.0	13.9	21.2	10.7
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m^3					
Optimum Moisture %					

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	6	7	8	9	10
Lab No.	98177	98181	98182	98178	98179
Station	10+385	10_500	10+500	10+900	10+900
Location	10 m Rt	10 m Rt	10 m Rt	29 m Lt	29 m Lt
Depth (Meters)	3.0-3.7	0-0.9	0.9-3.0	0-0.6	0.6-1.5
HRB Classification & Group Index	A-6(10)	A-7-6(25)	A-6(10)	A-6(17)	A-7-6(25)
Grain Size Classification	SiCL	SiC	Silt	SiCL	SiC
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	97.12	99.33	99.78	98.04	98.84
0.150 mm Sieve	92.82	98.73	99.68	96.16	98.28
0.075mm Sieve	90.26	98.29	99.54	95.0	97.84
Sand	10.0	2.0	1.0	5.0	2.0
Silt	65.0	61.0	81.0	68.0	63.0
Clay	25.0	37.0	18.0	27.0	35.0
Liquid Limit	30.6	48.2	28.2	39.2	46.9
Plasticity Index	13.3	23.6	11.0	17.0	22.1
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m³		1692	1772		
Optimum Moisture %		21.6	15.9		

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	11	12	13	14	15
Lab No.	98180	98054	98055	98056	98050
Station	10+900	11+000	11+000	11+000	11+400
Location	29 m Lt	10 m Lt	10 m Lt	10 m Lt	10 m Lt
Depth (Meters)	1.5-2.7	0-0.8	0.8-2.4	2.4-2.7	0-0.3
HRB Classification & Group Index	A-6(12)	A-7-6(20)	A-4(6)	A-6(13)	A-6(26)
Grain Size Classification	Silt	SiC	SiC	SiCL	SiCL
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	99.82	99.78	99.64	98.98	98.54
0.150 mm Sieve	99.60	99.54	99.02	96.66	97.38
0.075mm Sieve	99.26	99.22	98.42	94.8	96.48
Sand	1.0	1.0	2.0	5.0	4.0
Silt	84.0	65.0	67.0	69.0	68.0
Clay	15.0	34.0	31.0	26.0	28.0
Liquid Limit	28.7	44.1	29.6	33.2	37.2
Plasticity Index	12.6	16.6	7.4	13.8	12.2
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m³					
Optimum Moisture %					

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	16	17	18	19	20
Lab No.	98051	98052	98047	98048	98049
Station	11+400	11+400	11+800	11+800	11+800
Location	10 m Lt	10 m Lt	10 m Lt	10 m Lt	10 m Lt
Depth (Meters)	0.3-1.5	1.5-2.7	0-0.5	0.5-1.1	1.1-2.7
HRB Classification & Group Index	A-7-6(34)	A-4(8)	A-7-6(16)	A-7-6(22)	A-4(9)
Grain Size Classification	SiC	Silt	SiCL	SiC	Silt
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	98.94	99.72	98.02	98.96	99.62
0.150 mm Sieve	98.3	99.32	96.92	98.28	99.38
0.075mm Sieve	97.96	98.96	95.14	97.8	99.16
Sand	2.0	1.0	5.0	2.0	1.0
Silt	63.0	83.0	66.0	64.0	82.0
Clay	35.0	16.0	29.0	34.0	17.0
Liquid Limit	44.6	28.9	42.9	46.5	28.4
Plasticity Index	19.6	9.2	14.1	20.1	8.7
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m³					
Optimum Moisture %					

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	21	22	23	24	25
Lab No.	98046	98043	98044	98045	98042
Station	12+000	12+200	12+200	12+200	12+500
Location	10 m Lt	10 m Lt	10 m Lt	10 m Lt	10 m Rt
Depth (Meters)	1.5-2.0	0-0.6	0.6-1.5	1.5-2.7	1.5-2.7
HRB Classification & Group Index	A-6(13)	A-6(16)	A-7-6(21)	A-4(9)	A-4(9)
Grain Size Classification	SiCL	SiCL	SiC	Silt	Silt
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve	99.8	98.2	99.1	99.9	99.8
2.00 mm Sieve	99.6	96.9	98.4	99.7	99.6
0.425 mm Sieve	99.3	96.3	97.4	99.5	99.2
0.150 mm Sieve	1.0	4.0	3.0	1.0	1.0
0.075mm Sieve	77.0	68.0	62.0	81.0	84.0
Sand	22.0	28.0	35.0	18.0	15.0
Silt	32.8	39.4	44.9	28.6	28.4
Clay	13.0	14.9	18.8	8.0	8.1
Liquid Limit					
Plasticity Index					
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m³					
Optimum Moisture %					

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	26	27	28	29	30
Lab No.	98038	98039	98040	98041	98070
Station	12+600	12+600	12+600	12+600	12+700
Location	10 m Lt	10 m Lt	10 m Lt	10 m Lt	6 m Lt
Depth (Meters)	0-0.6	0.6-1.4	1.4-1.8	1.8-2.7	0-0.6
HRB Classification & Group Index	A-7-6(19)	A-7-6(23)	A-6(15)	A-6(10)	A-7-6(19)
Grain Size Classification	SiC	SiC	SiCL	Silt	SiCL
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	97.8	98.4	99.4	99.8	98.78
0.150 mm Sieve	96.5	97.5	99.0	99.6	98.04
0.075mm Sieve	95.8	94.6	98.5	99.3	97.52
Sand	4.0	5.0	2.0	1.0	3.0
Silt	64.0	59.0	74.0	82.0	67.0
Clay	32.0	36.0	24.0	17.0	30.0
Liquid Limit	44.7	50.2	34.5	29.7	43.3
Plasticity Index	16.9	20.5	14.2	10.1	16.5
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m^3					
Optimum Moisture %					

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	31	32	33	34	35
Lab No.	98071	98072	98073	98074	98075
Station	12+700	12+700	13+100	13+100	13+100
Location	6 m Lt	6 m Lt	10 m Lt	10 m Lt	10 m Lt
Depth (Meters)	0.6-1.5	1.5-2.7	0-0.5	0.5-1.2	1.2-2.7
HRB Classification & Group Index	A-7-6(22)	A-6(9)	A-7-6(18)	A-7-6(19)	A-6(22)
Grain Size Classification	SiC	Silt	SiC	SiC	SiL
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	98.6	99.7	98.72	97.76	99.52
0.150 mm Sieve	98.1	99.62	97.74	97.0	99.2
0.075mm Sieve	97.68	99.46	97.26	96.5	98.2
Sand	2.0	1.0	3.0	4.0	2.0
Silt	58.0	85.0	64.0	64.0	79.0
Clay	40.0	14.0	33.0	32.0	19.0
Liquid Limit	52.2	29.8	43.2	41.0	31.2
Plasticity Index	21.9	10.2	15.5	17.9	10.2
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m^3					
Optimum Moisture %					

Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	36	37	38	39	40
Lab No.	98076	98077	98078	98079	98080
Station	13+600	13+600	13+600	14+100	14+100
Location	10 m Rt	10 m Rt	10 m Rt	10 m Lt	10 m Lt
Depth (Meters)	0-0.5	0.5-1.5	1.5-2.7	0-0.5	0.5-1.5
HRB Classification & Group Index	A-7-6(16)	A-7-6(20)	A-4(8)	a-7-6(18)	A-7-6(20)
Grain Size Classification	SiCL	SiC	Silt	SiCL	SiC
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	96.96	97.16	99.64	99.2	99.72
0.150 mm Sieve	95.74	96.18	99.46	98.32	99.32
0.075mm Sieve	94.8	95.5	99.06	97.6	98.98
Sand	5.0	5.0	1.0	2.0	1.0
Silt	67.0	57.0	86.0	72.0	67.0
Clay	28.0	38.0	13.0	26.0	32.0
Liquid Limit	41.7	52.0	29.1	42.4	43.2
Plasticity Index	14.7	22.2	8.9	15.5	17.6
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m³					
Optimum Moisture %					

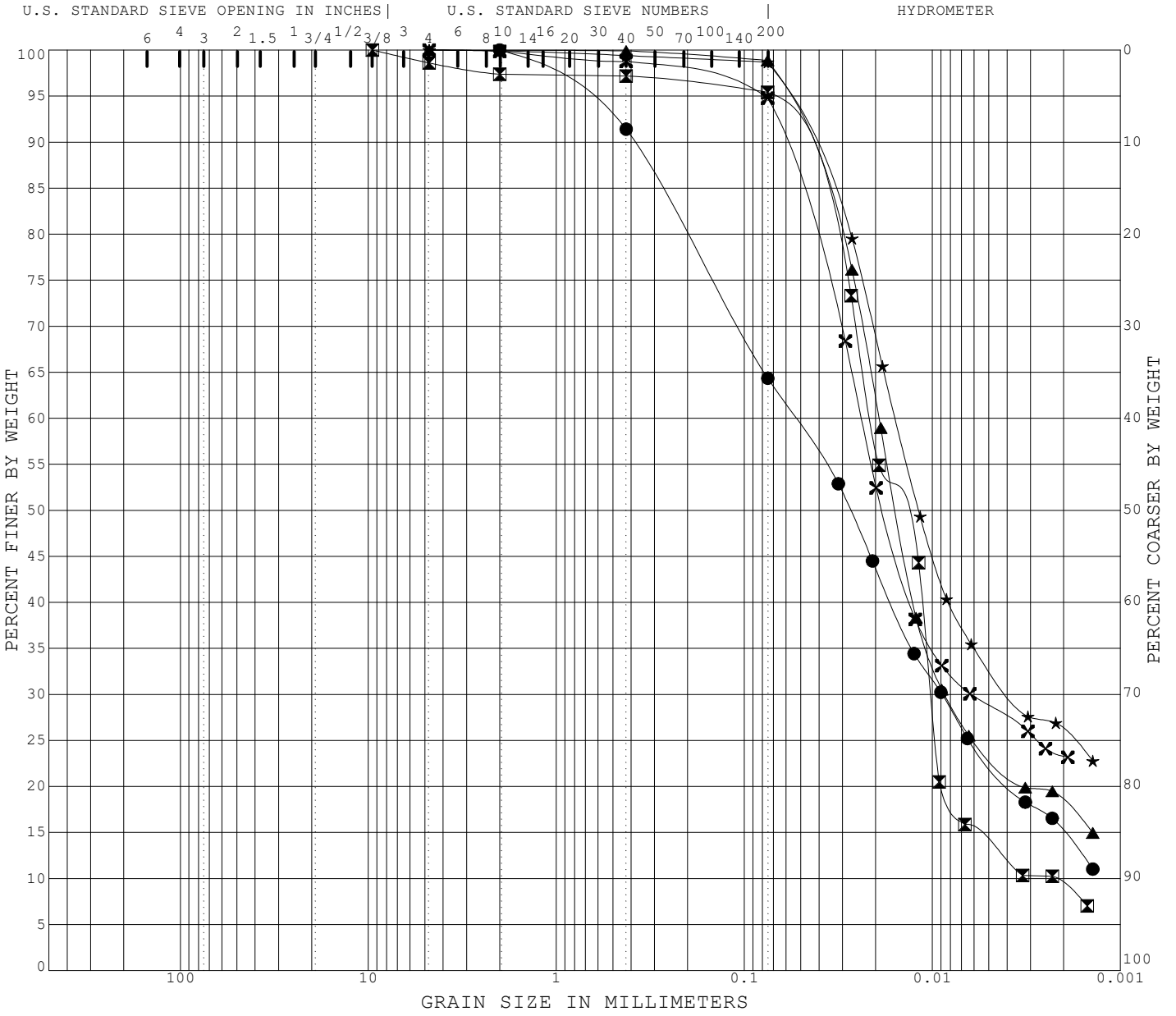
Remarks:

State Job Number D-96-501-95 Route FAP 67 (IL 97) Project

Section S(X) 8 W(X,TS) City or County Sangamon

Sample No.	41	42	43	44	45
Lab No.	98081	98082	98083	98084	98085
Station	14+100	14+200	14+500	14+500	14+500
Location	10 m Lt	10 m Rt	10 m Lt	10 m Lt	10 m Lt
Depth (Meters)	1.5-2.7	2.3-2.7	0-0.5	0.5-1.2	1.2-2.7
HRB Classification & Group Index	A-6(11)	A-6(10)	A-6(15)	A-7-6(24)	A-4(9)
Grain Size Classification	Silt	SiL	SiCL	SiC	Silt
Gradation - Passing 25.0 mm Sieve					
19.0 mm Sieve					
12.5 mm Sieve					
4.75 mm Sieve					
2.00 mm Sieve					
0.425 mm Sieve	99.6	99.12	98.72	98.82	99.7
0.150 mm Sieve	98.96	97.42	97.74	98.26	99.38
0.075mm Sieve	98.6	95.94	96.02	97.84	99.02
Sand	1.0	4.0	4.0	2.0	1.0
Silt	81.0	76.0	69.0	65.0	83.0
Clay	18.0	20.0	27.0	33.0	16.0
Liquid Limit	30.4	30.1	39.0	48.2	28.1
Plasticity Index	11.2	11.7	14.2	21.8	8.8
Illinois Bearing Ratio					
IBR Soaked Moisture					
Standard Dry Density AASHTO T99 kg/m³					
Optimum Moisture %					

Remarks:



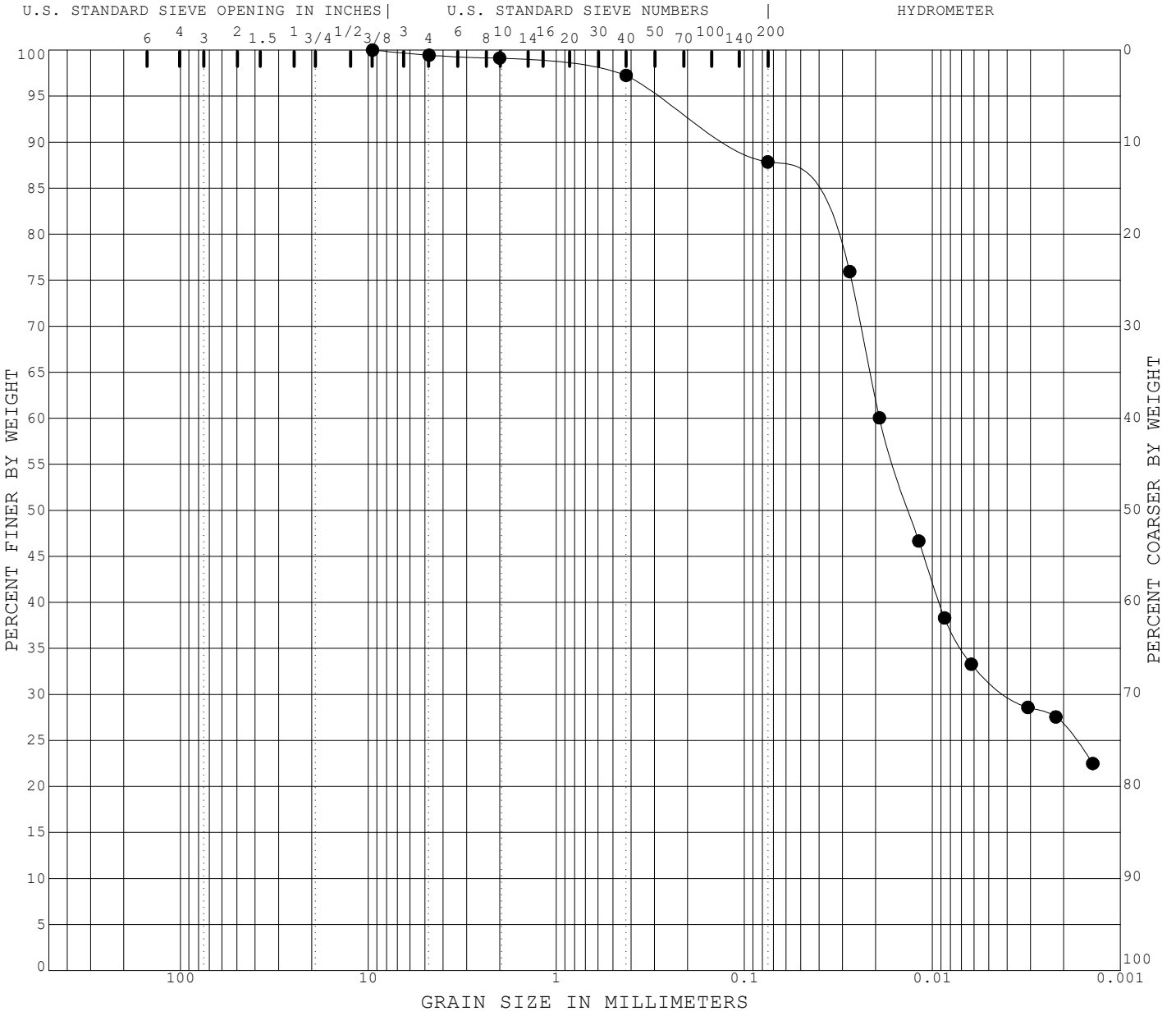
Boulders	Gravel	Sand		Silt	Clay
		coarse	fine		

	Boring No.	Depth	Lab. No.	AASHTO Soil Classification (Textural)	MC%	LL	PL	PI
●	**S-640**	**9.25'**	**#111**	**Loam, Brown, Tr. Blk (A-4(2))**	**9.3**	**22**	**15**	**7**
⧓	**S-640**	**14.25'**	**#112**	**Silt, Brown & Gray (A-4)**	**18.8**			
▲	**S-650**	**1.88'**	**#113**	**Silt, Brown & Gray (A-4)**	**16.9**			
★	**S-845**	**4.25'**	**#114**	**Silty Clay Loam, Brown & Gray (A-6)**	**14.8**			
✕	**S-850**	**1.75'**	**#115**	**Silty Clay Loam, Brn, Tr. Drk Brn (A-6(13))**	**19.4**	**33**	**19**	**14**

	%< 3"	%Pass#10	%Pass#40	%Pass#200	%<.002mm	%Gravel	%Sand	%Silt	%Clay	%Colloids
●		**100.0**	**91.4**	**64.3**	**15.0**	**0.0**	**35.7**	**49.4**	**14.9**	
⧓		**97.4**	**97.2**	**95.4**	**9.2**	**2.6**	**2.0**	**86.2**	**9.2**	
▲		**100.0**	**99.9**	**98.9**	**18.2**	**0.0**	**1.1**	**80.7**	**18.2**	
★		**99.9**	**99.4**	**98.7**	**26.0**	**0.1**	**1.2**	**72.6**	**26.1**	
✕		**99.9**	**98.8**	**94.8**	**23.3**	**0.1**	**5.1**	**71.4**	**23.4**	

SEECO
Consultants, Inc.
Tinley Park, Illinois 60477

Project	IL-97/125 4-Lane Expressway			
Location	Sangamon County, IL			
Date	2/5/21	Job No.	12444G	**GRADATION CURVES**



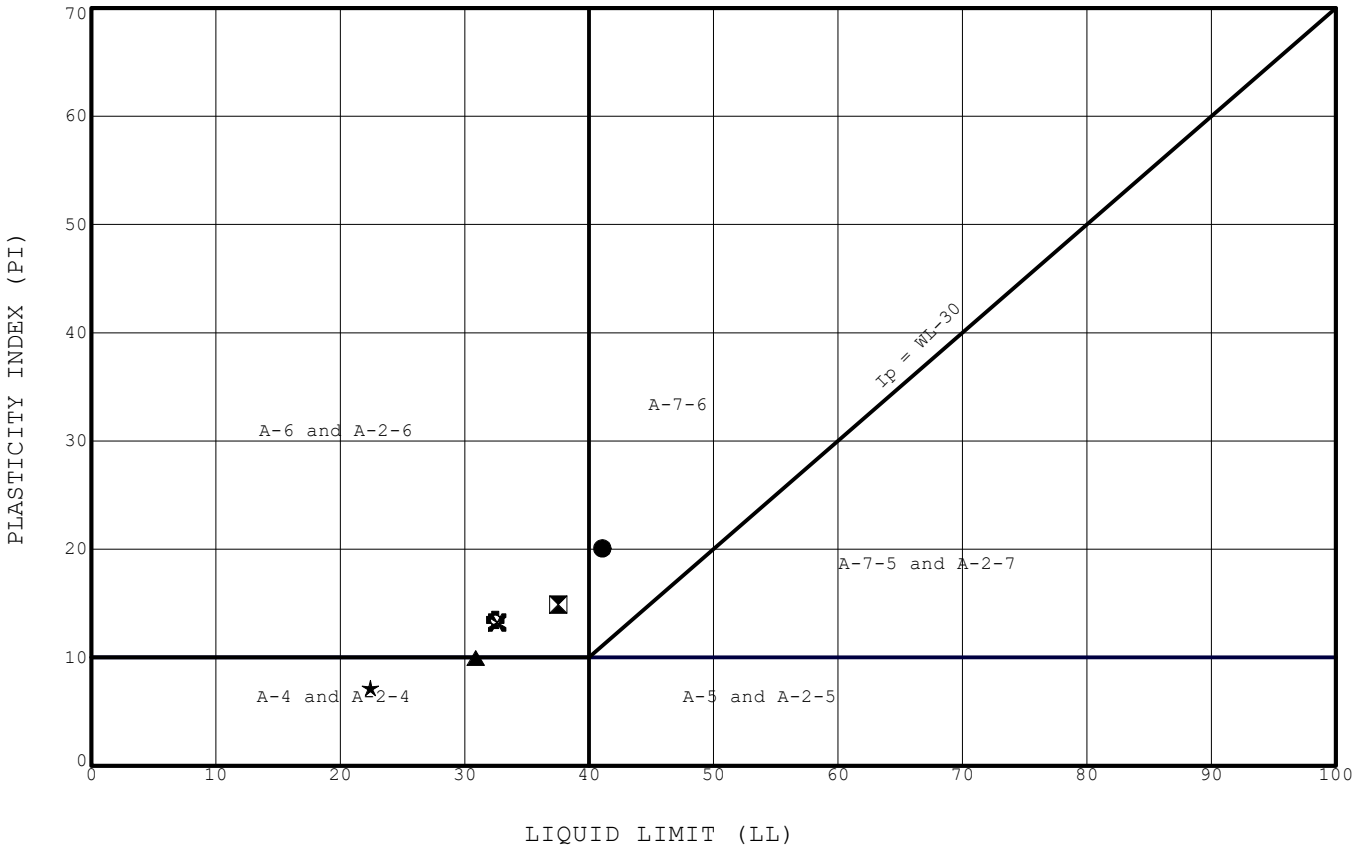
Boulders	Gravel	Sand		Silt	Clay
		coarse	fine		

	Boring No.	Depth	Lab. No.	AASHTO Soil Classification (Textural)	MC%	LL	PL	PI
●	**S-855**	**14.25'**	**#116**	**Silty Clay Loam, Brn to Reddish Brn (A-6(11))**	**21.4**	**32**	**19**	**13**

	%< 3"	%Pass#10	%Pass#40	%Pass#200	%<.002mm	%Gravel	%Sand	%Silt	%Clay	%Colloids
●		**99.1**	**97.2**	**87.8**	**26.5**	**0.9**	**11.3**	**61.4**	**26.4**	

SEECO
Consultants, Inc.
Tinley Park, Illinois 60477

Project	IL-97/125 4-Lane Expressway			
Location	Sangamon County, IL			
Date	2/5/21	Job No.	12444G	**GRADATION CURVES**



	Boring No.	Depth	MC	LL	PL	PI	LI	Classification
●	S-07+50	6.75	25.43	41	21	20	0.2	Silty Clay Loam, Brn & Drk Gry (A-7-6(21))
⊠	S-638	1.75	16.37	38	23	15	-0.4	Silty Clay Loam, Drk Brn & Brn (A-6(17))
▲	S-638	11.75	19.29	31	21	10	-0.2	Silty Loam, Brown (A-4(10))
★	S-640	9.25	9.33	22	15	7	-0.8	Loam, Brown (A-4(2))
✕	S-850	1.75	19.36	33	19	14	0.0	Silty Clay Loam, Brown (A-6(13))
✿	S-855	14.25	21.38	32	19	13	0.2	Silty Clay Loam, Brn to Reddish Brn (A-6(11))

Client	IDOT District 6
Project	IL-97/125 4-Lane Expressway
Location	Sangamon County, IL

SEECO Consultants, Inc.

Boring No.		Date	2/5/21	Job No.	12444G	Drawn By	SD

AASHTO ATTERBERG LIMITS RESULTS

Illinois Department of Transportation

Route FAP 67, FAU 8049 (IL 97/125)

Section S (X), W (X, TS)

County Sangamon

Location Sangamon County, IL

Job No. 12444G

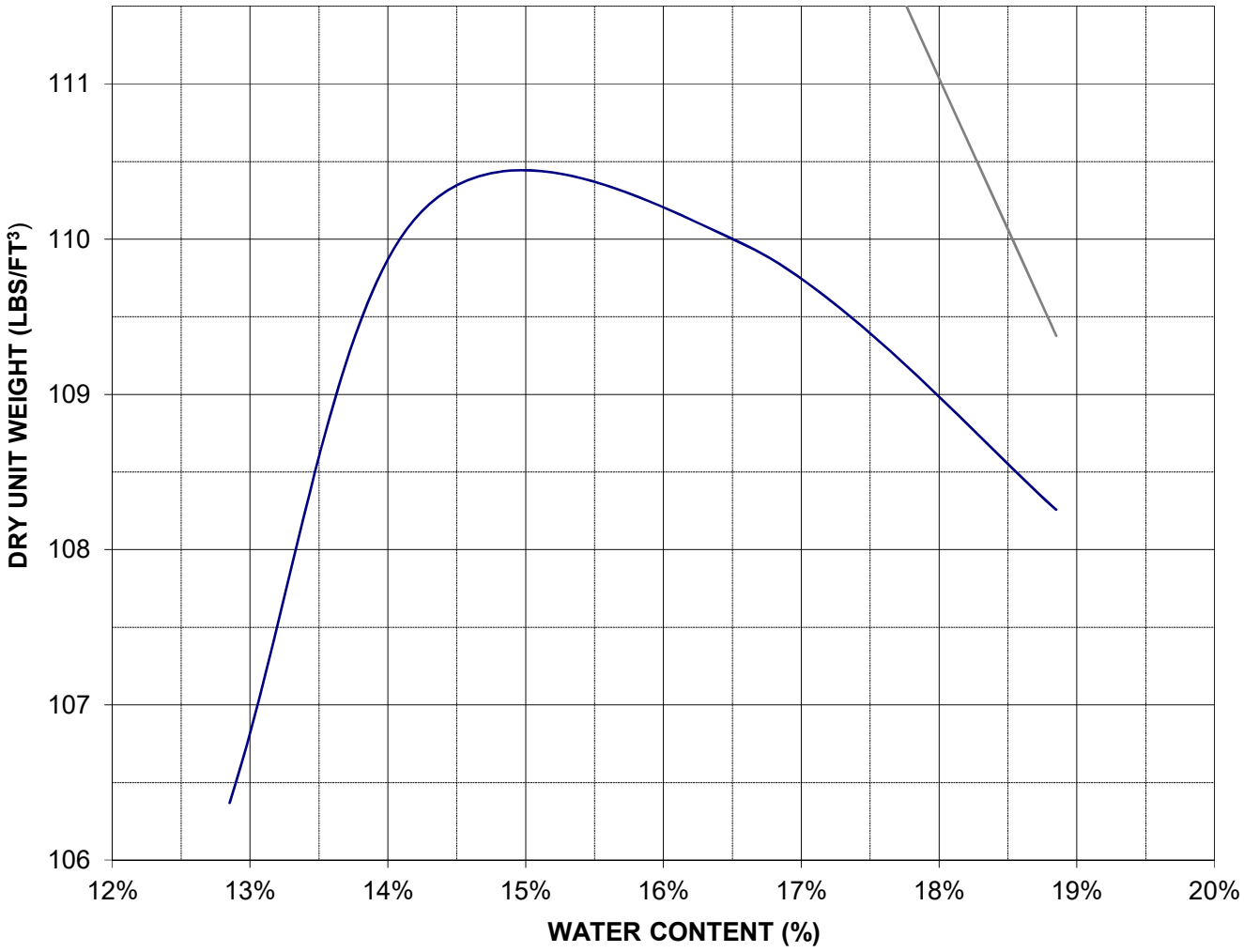
Lab. No.		#113	#114	#115	#116
Boring No.		S-650	S-845	S-850	S-855
Station		650+00	845+45	850+00	855+00
Offset		85’ RT	65’ LT	65’ LT	65’ LT
Depth	ft	1.88	4.25	1.75	14.25
AASHTO Classification (AASHTO M 145)		A-4	A-6	A-6(13)	A-6(11)
Illinois Textural Classification		Silt	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam
Gradation Passing – 1”	%	100	100	100	100
3/4”	%	100	100	100	100
1/2”	%	100	100	100	100
No. 4	%	100	100	100	99.4
No. 10	%	100	99.9	99.9	99.1
No. 40	%	99.9	99.4	98.8	97.2
No. 100	%	99.4	99.1	96.8	92.5
No. 200	%	98.9	98.7	94.8	87.8
Sand (AASHTO T 88)	%	1.1	1.2	5.1	11.3
Silt (AASHTO T 88)	%	80.7	72.6	71.4	61.4
Clay (AASHTO T 88)	%	18.2	26.1	23.4	26.4
Liquid Limit (AASHTO T 89)	%			33	32
Plasticity Index (AASHTO T 90)	%			14	13
Organic Matter Content	%				
Std. Dry Density (IL Mod AASHTO T 99)	pcf			110.4	
Optimum Moisture (IL Mod AASHTO T 99)	%			15.0	
Subgrade Support Rating		POOR	POOR	POOR	POOR
In situ Moisture	%	16.9	14.8	19.4	21.4

SEECO CONSULTANTS, INC.

7350 DUVAN DRIVE
TINLEY PARK, IL. 60477

MOISTURE DENSITY RELATIONSHIPS OF SOILS

PROJECT: IL -97/125 4-Lane Expressway
CLIENT: IDOT District 6
DATE SAMPLED: 11/03/20
JOB NUMBER: 12444G



TEST METHOD: AASHTO T 99-19, Method A
DATE TESTED: 11/19/20
MATERIAL TYPE: Brn, Tr. Dark Brown Silty Clay Loam, Tr. Sand (A-6(13))
TESTED BY: PG
MATERIAL SOURCE: S-850 (1 to 8 Feet)

MAXIMUM DRY UNIT WEIGHT: **110.4** **PCF**

OPTIMUM MOISTURE CONTENT: **15.0** **%**