ROADWAY GEOTECHNICAL REPORT
JANE BYRNE INTERCHANGE
RECONSTRUCTION
I-90/94 AND CONNECTING RAMPS
62A76, 62A77, AND 60X94
SECTIONS 2015-020B AND 2014-015R&B-R
COOK COUNTY, ILLINOIS

for

AECOM

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11. Abstract

As part of the Jane Byrne Interchange project, the Interstate 90/94 northbound (NB) and southbound (SB) including their connecting ramps and roads will be reconstructed under Contracts 62A76, 62A77, and 60X94. The contracts include the I-90/94 NB, SB, and all or portions of connecting ramps and roads. The new pavements vary between 20- to 80-foot wide. The roadway pavement widening will require cut into the existing slopes, existing roadways, or be supported on new fill. The ramps are flanked by existing or new retaining walls and embankments with slopes no steeper than 1:2 (V:H).

Based on our subsurface investigation results, the soils consists of up to 20 feet of granular and cohesive fill, up to 10 feet medium stiff to very stiff clay crust, up to 40 feet of very soft to medium stiff clay. Water-bearing layers are present in the fill, within the soft clay, and at deeper levels within the granular materials and weathered dolostone.

The subgrade along the alignments consist of fill, stiff to hard silty clay, or very soft clay. Since the soft clayey subgrade will not provide a stable working platform for placement and compaction of improved aggregate subgrade; we recommend 24 inches of additional undercut below the 12 inches of IDOT Aggregate Subgrade Improvement and placing geotextile fabric at the base of the excavation for separation. Alternatively, the undercut thickness could be reduced by using a bi-axial or tri-axial geogrid designed for the average daily traffic, axel loading, and pavement design life. The pavement sections should be designed for an average SSR value of POOR or an IBR value of 2.

The recommendations pertaining to the proposed retaining walls required to accommodate the new embankment or retain the cut sections along the improvement, are provided in separate structure geotechnical reports.

12. Path to archived file

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TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 GEOLOGIC SETTING 2

2.1 PHYSIOGRAPHY 3

2.2 SURFICIAL COVER 3

2.3 BEDROCK 3

2.4 CLIMATE DATA 4

3.0 METHODS OF INVESTIGATION 10

3.1 SUBSURFACE INVESTIGATION 10

3.2 LABORATORY TESTING 13

4.0 RESULTS OF FIELD AND LABORATORY INVESTIGATIONS 14

4.1 SURFACE CONDITIONS 14

4.2 SOIL CONDITIONS 16

4.3 GROUNDWATER CONDITIONS 22

5.0 ENGINEERING ANALYSIS AND RECOMMENDATIONS 22

5.1 SITE PREPARATION AND EARTHWORK 22

5.2 SUBGRADE TREATMENT AND RECOMMENDATIONS 23

5.3 SUBGRADE SUPPORT RATING 28

5.4 ROADWAY DRAINAGE 28

5.5 EMBANKMENT CUTS 29

6.0 CONSTRUCTION CONSIDERATIONS 30

6.1 EXCAVATION AND DEWATERING 30

6.2 FILLING AND BACKFILLING 31

6.3 EARTHWORK OPERATIONS 31

7.0 QUALIFICATIONS 32

REFERENCES 33

EXHIBITS

1. Site Location Map

2. Site and Regional Geology

3. NB and Connecting Ramps Plan

4. Subgrade Support Rating Chart

4. Slope Stability NB CD Road

APPENDIX A

Boring Logs

APPENDIX B

IDOT BMPR 507A and 508A Forms

APPENDIX C

Laboratory Test Results

APPENDIX D

Proposed Pavement Structure

APPENDIX E

Soil Boring Location Plans and Soil Profiles

LIST OF TABLES

Table 1a: NB Summary of Alignments and Reference Borings 11
Table 1b: SB Summary of Alignments and Reference Borings 13
Table 2a: NB Summary of Topsoil Thickness 14
Table 2b: SB Summary of Topsoil Thickness 15
Table 3a: NB Summary of Existing Pavement Thickness and Composition 15
Table 3b: SB Summary of Existing Pavement Thickness and Composition 16
Table 4a: NB Summary of Existing Fill Properties 17
Table 4b: SB Summary of Existing Fill Properties 18
Table 5a: NB Summary of Stiff Silty Clay Unit Properties 19
Table 5b: SB Summary of Stiff Silty Clay Unit Properties 20
Table 6a: NB Summary of Very Soft to Medium Stiff Clay Properties 20
Table 6b: SB Summary of Very Soft to Medium Stiff Clay Properties 21
Table 7a: NB Summary of Subgrade Soil Condition and Estimated Undercut 23
Table 7b: SB Summary of Subgrade Soil Condition and Estimated Undercut 25
Table 8a: NB Summary of Structures 29
Table 8b: SB Summary of Structures 30

LIST OF FIGURES

Figure 1: Monthly Precipitation Data for 2012 5
Figure 2: Monthly Temperature Data for 2012 5
Figure 3: Monthly Precipitation Data for 2013 6
Figure 4: Monthly Temperature Data for 2013 6
Figure 5: Monthly Precipitation Data for 2014 7
Figure 6: Monthly Temperature Data for 2014 7
Figure 7: Monthly Precipitation Data for 2015 8
Figure 8: Monthly Temperature Data for 2015 8
Figure 9: Monthly Precipitation Data for 2019 9
Figure 10: Monthly Temperature Data for 2019 9

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1.0 INTRODUCTION

This report presents the results of our geotechnical subsurface investigation, laboratory testing, and engineering analyses, evaluations, and recommendations for roadway pavement reconstruction along the I-90/94 NB, I-90/94 SB and connecting ramps and roads (Contracts 62A76, 62A77, and 60X94). A *Site Location Map* is presented as Exhibit 1.

Roadway design drawings provided to Wang Engineering, Inc. (Wang) by AECOM and TranSystems Corporation (TranSystems) indicate the improvements will include the following sections

Contract 62A76 – Northbound I-90/94

- I-90/94 northbound (NB) between Station 6100+00.00 and Station 6175+07.63;
- Ramp NW between Station 1799+15.31 and Station 1807+80.00;
- Roosevelt Entrance Ramp between Station 7249+29.42 and Station 7254+21.37;
- Taylor Entrance Ramp between Station 6305+21.15 and Station 6309+70.74;
- NB CD Road between Station 6319+97.50 and Station 6367+04.01;
- Ramp WN between Station 1105+76.20 and Station 1108+99.25;
- EN Slip Ramp between Station 6502+29.74 and 6505+75.67;
- Ramp EN between Station 1617+70.00 and Station 1625+18.68;
- Jackson Entrance Ramp between Station 8243+20.18 and Station 8245+05.53;
- Adams Entrance Ramp between Station 8343+65.65 and Station 8346+09.15;
- Madison Exit Ramp between Station 8540+00.00 and Station 8548+86.82;
- Washington Exit Ramp between Station 8680+00.00 and Station 8684+50.69;
- Randolph Exit Ramp between Station 8740+00.00 and Station 8744+73.19; and
- Lake Exit Ramp between Station 8840+00.00 and Station 8849+09.73;

Contract 62A77 – Southbound I-90/94

- I-90/94 southbound (SB) between Station 6202+91.11 and Station 6252+85.00;
- Ramp SW between Station 1300+00.00 and Station 1315+00.47;
- Adams Exit Ramp between Station 8380+00.00 and Station 8383+45.00;
- Jackson Exit Ramp between Station 8280+00.00 and Station 8281+91.96;
- SB Access Road between Station 20+00.00 and Station 26+16.53;

Contract 60X94 – Adams Street and Jackson Boulevard

- Adams Exit Ramp between Station 8383+45.00 and Station 8388+18.06; and
- Adams Entrance Ramp between Station 8340+00.00 and Station 8343+65.65.
- Jackson Exit Ramp between Station 8281+91.96 and Station 8286+98.73;
- Jackson Entrance Ramp between Stations 8240+00.00 and Station 8243+20.18;

Several roadway sections and structures along the alignments were addressed in Wang's various roadway geotechnical reports (RGR) and structure geotechnical reports (SGR). This report addresses all the above listed alignments, any other reports do not apply.

The new roadway pattern shows numerous new ramps, bridges, retaining walls, and roadway alignments. The roadway sections addressed in this report will have one to three lanes with shoulders on both sides and a total width of about 14 to 40 feet along the connecting ramps and four to six lanes with shoulders on both sides with a total width of about 64 to 80 feet along the I-90/94 NB and SB.

The purpose of the investigation was to characterize the site soil, groundwater conditions, and provide geotechnical analyses and recommendations for the design and construction of the proposed pavements.

2.0 SITE AND REGIONAL GEOLOGY

The site is located within the City of Chicago at the I-90/94 and I-290 Circle Interchange. On the USGS Chicago Loop 7.5 Minute Series map, the ramps run northward through Sections 21, 16 and 9 of Tier 39 N, Range 14 E of the Third Principal Meridian.

The following review of published geologic data, with emphasis on factors that might influence the design and construction of the proposed engineering works, is meant to place the project area within a geological framework and confirm the dependability and consistency of the present subsurface investigation results. For the study of the regional geologic framework, Wang considered northeastern

Illinois in general and Cook County in particular. Exhibit 2 illustrates the *Site and Regional Geology*.

2.1 Physiography

The site is situated within the northern section of the Chicago/Calumet lacustrine plain (Chrzatowsky and Thompson 1992). The area's flat, lakeward-sloping surface is a wave-scoured groundmoraine covered by thin and discontinuous lacustrine offshore silt and clay (Willman 1971).

The investigated section of I-90/94 (Dan Ryan expressway) was constructed within a18- to 25-foot deep cut, at elevations ranging from 574 to 590 feet. The roadway connection ramps get from above ground surface elevation of about 598 feet south or the circle to about 578 feet along proposed I-90/94.

2.2 Surficial Cover

Within the project area, 100-foot thick or more, Wisconsinan-age glacial drift covers the bedrock (Leetaru et al. 2004). The glacial cover is made up of discontinuous occurrences of clay and silt of the Equality Formation of the Mason Group and diamictons of the Wadsworth and Lemont Formations of the Wedron Group (Hansel and Johnson 1996). The Equality Formation is made up of bedded silt and clay, locally laminated, with lenses and/or thin beds of sand and gravel. The Wadsworth Formation consists of relatively homogenous, massive, gray till with clay to silty clay matrix, with dolostone and shale clasts and occasional lenses of sorted and stratified silt. The Wadsworth Formation is underlain by the pebbly silty clay loam to silty loam diamicton of the Yorkville Member of the Lemont Formation, known informally as the Chicago "hardpan."

From a geotechnical viewpoint, the Equality Formation is characterized by low strength, medium to high plasticity, and medium to high moisture content, whereas the Wadsworth Formation is characterized by medium plasticity, medium to low moisture content, medium to very stiff consistency, poor permeability, and low compressibility (Bauer et al. 1991; Peck and Reed 1954).

2.3 Bedrock

In the project area, the glacigenic deposits unconformably rest over a 350-foot thick Silurian-age dolostone (Leetaru et al. 2004) at depths more than 100 feet below ground surface (bgs).

Our subsurface investigation results fit into the local geologic context. The borings drilled in the project area revealed the native sediments consist of clay to silty clay diamictons, hardpan, and gravelly sands that overlie the bedrock.

2.4 Climate Data

The subsurface investigation included in the report was performed between February 2013 and July 2019. To assess the possible effects of temperature and precipitation on water table data and soil moisture, the climatic conditions for the investigation period and three months prior to the start of the investigation are summarized graphically in Figures 1 through 10. The precipitation and temperature data for the investigation period are compared against thirty-year monthly data (1981 to 2010) in box-and-whiskers format to show deviations from "normal" climate conditions during the current investigation. Local climate data were obtained from the O'Hare Station (NCDC 2019).

The deviations from the historical 30-year climate data show a relatively wet period with average temperatures for 2013 and a relatively wet with lower than average temperature for 2014. Record precipitation event of 8.68 inches was recorded in April 2013. In addition, colder than normal temperatures were recorded in November and December 2013 and January, February, March, July, and August 2014 during and/or before the investigation. Record high temperatures of 48.9F and 39F were observed in December 2012 and December 2015, respectively. During 2019 investigation, the deviations from the historical 30-year climate data show average wet period with relatively low temperatures. Two months prior the investigation, record high precipitation events were recorded. The total precipitation for May was 8.25 inches. The presents of perched groundwater within the granular fill may have been influenced by these climate factors.

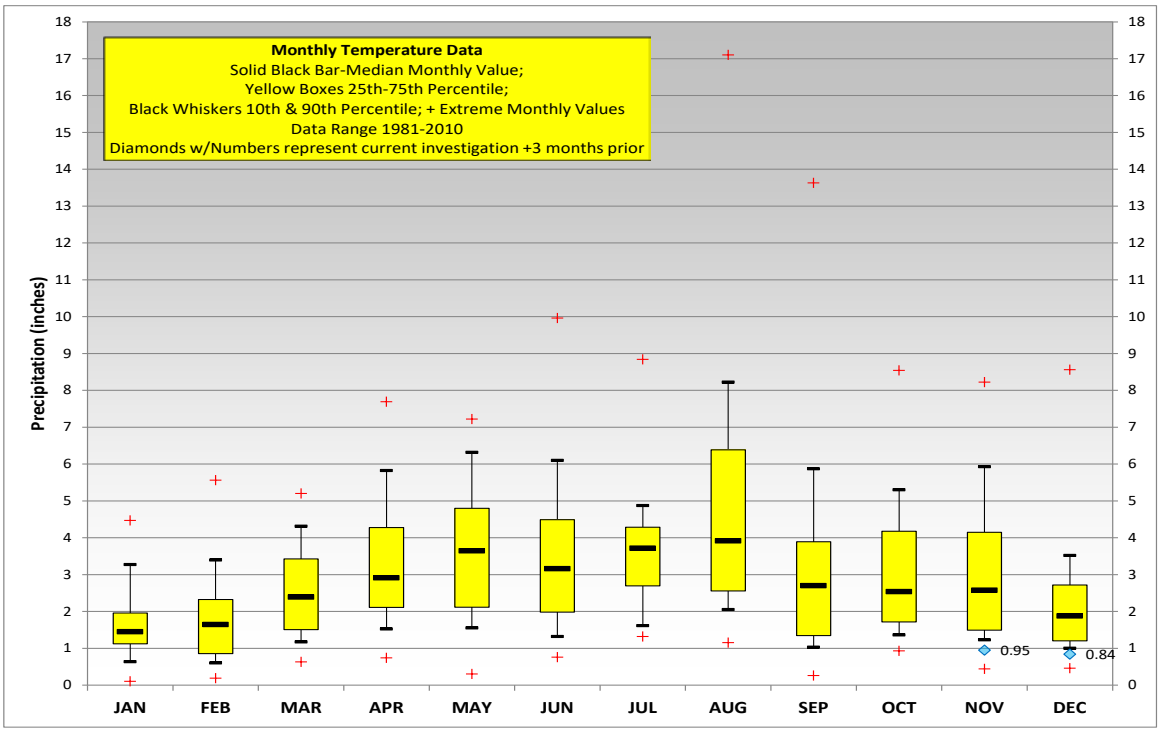

Figure 1: Monthly Precipitation Data for 2012

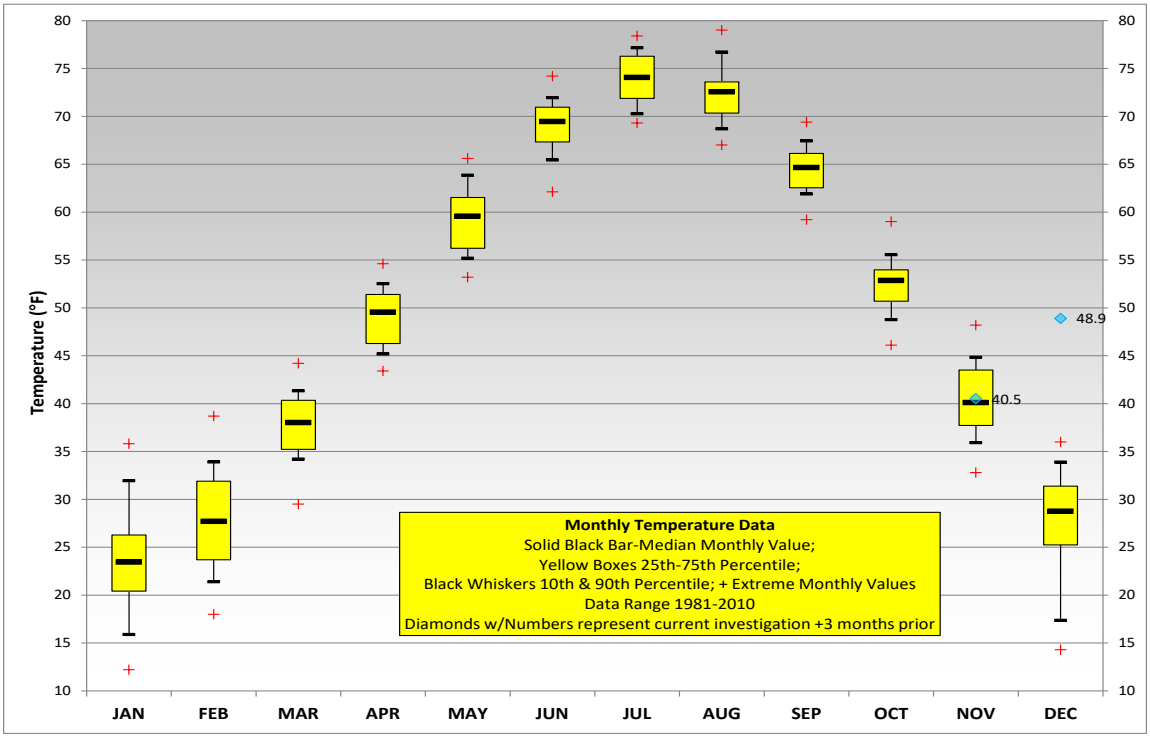

Figure 2: Monthly Temperature Data for 2012

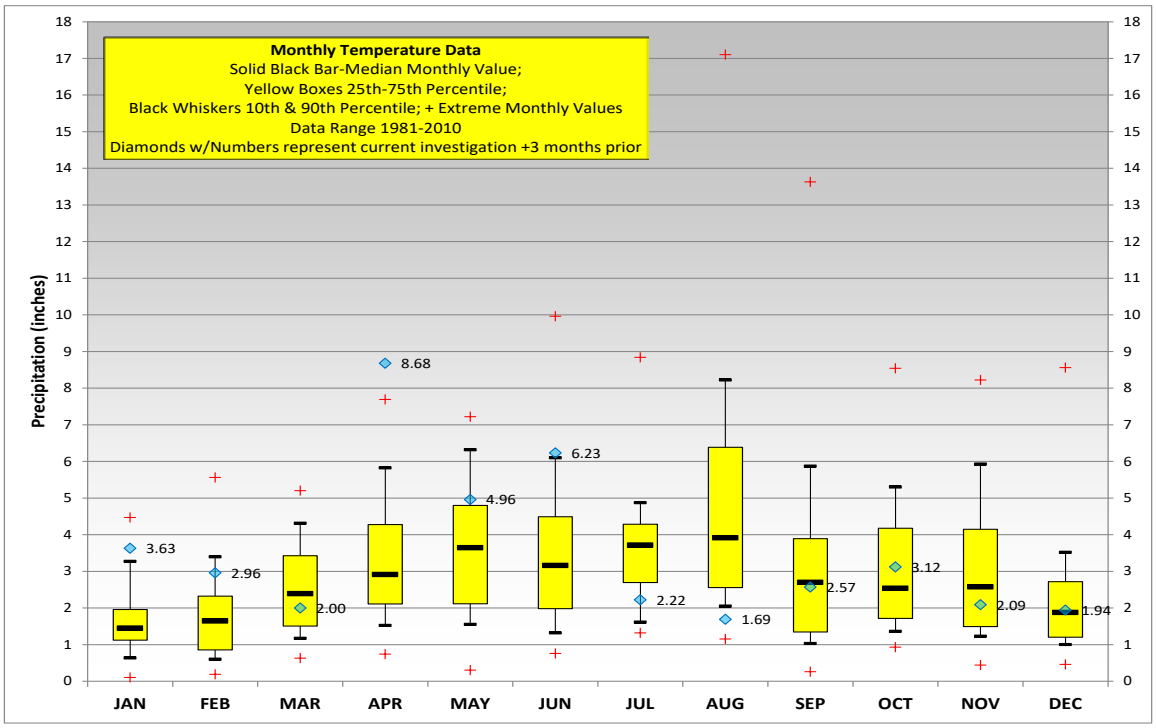

Figure 3: Monthly Precipitation Data for 2013

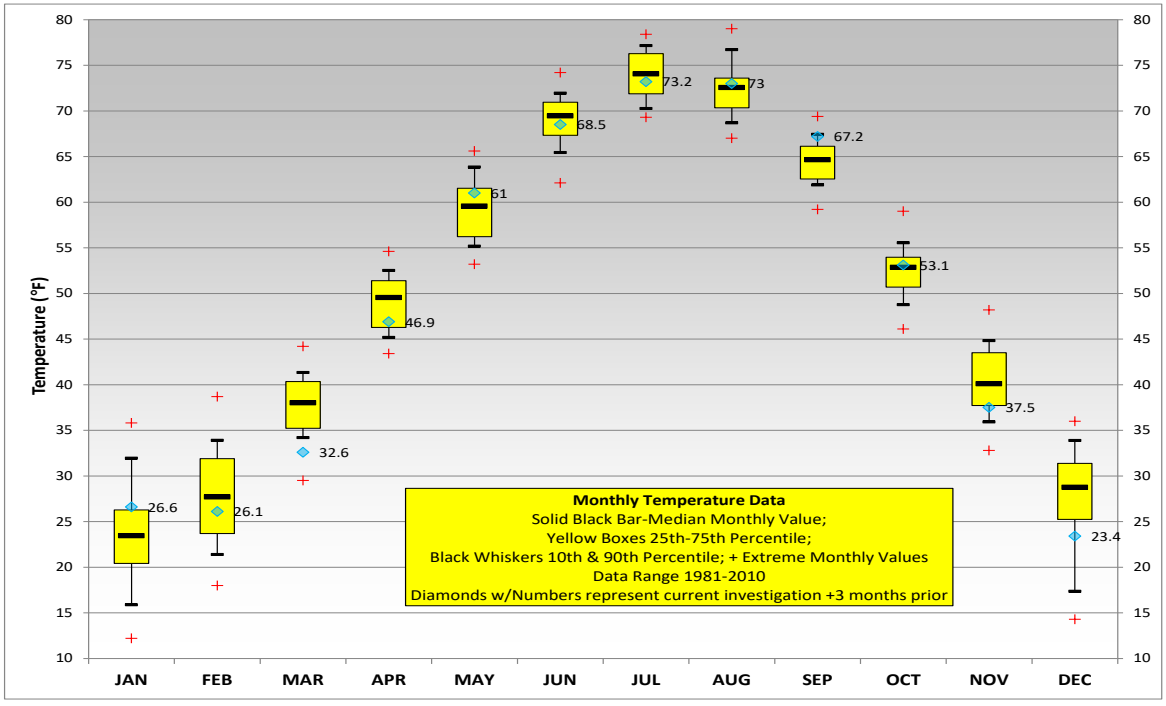

Figure 4: Monthly Temperature Data for 2013

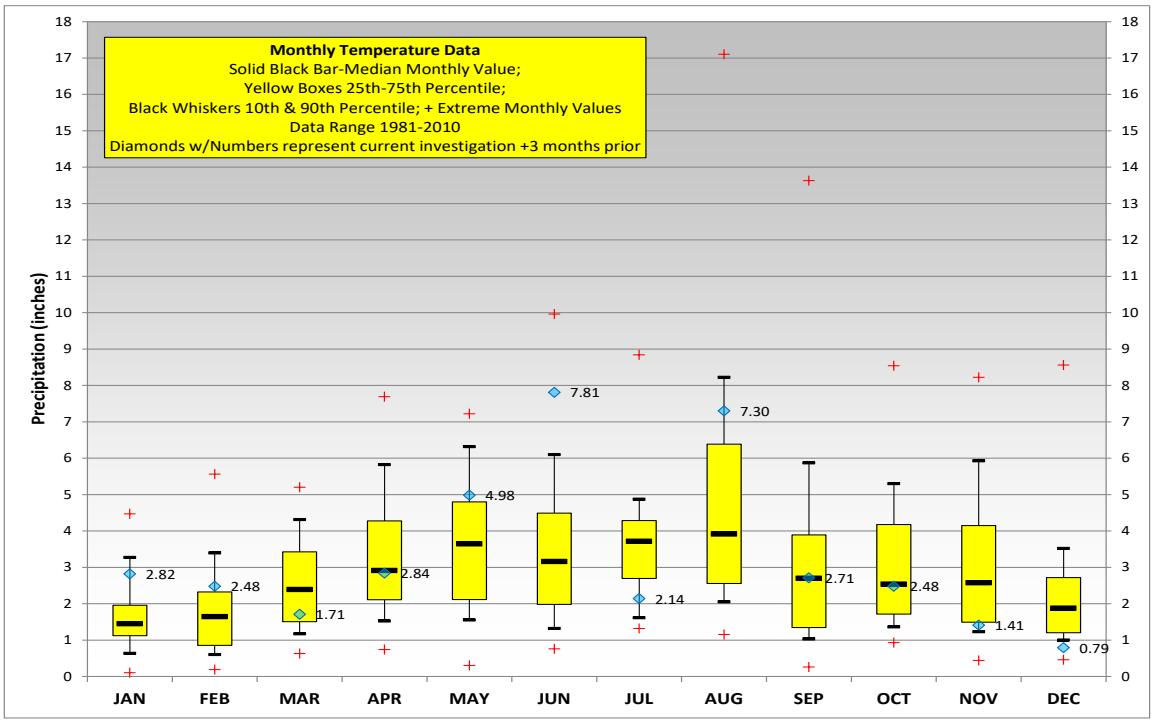

Figure 5: Monthly Precipitation Data for 2014

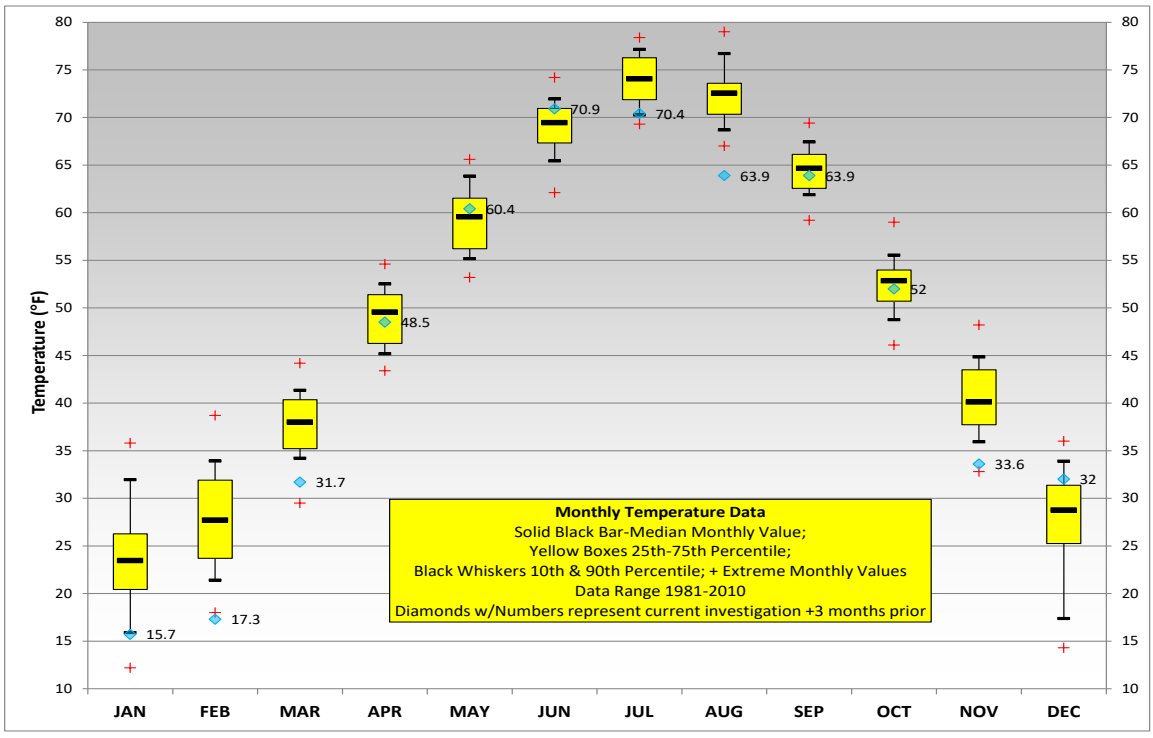

Figure 6: Monthly Temperature Data for 2014

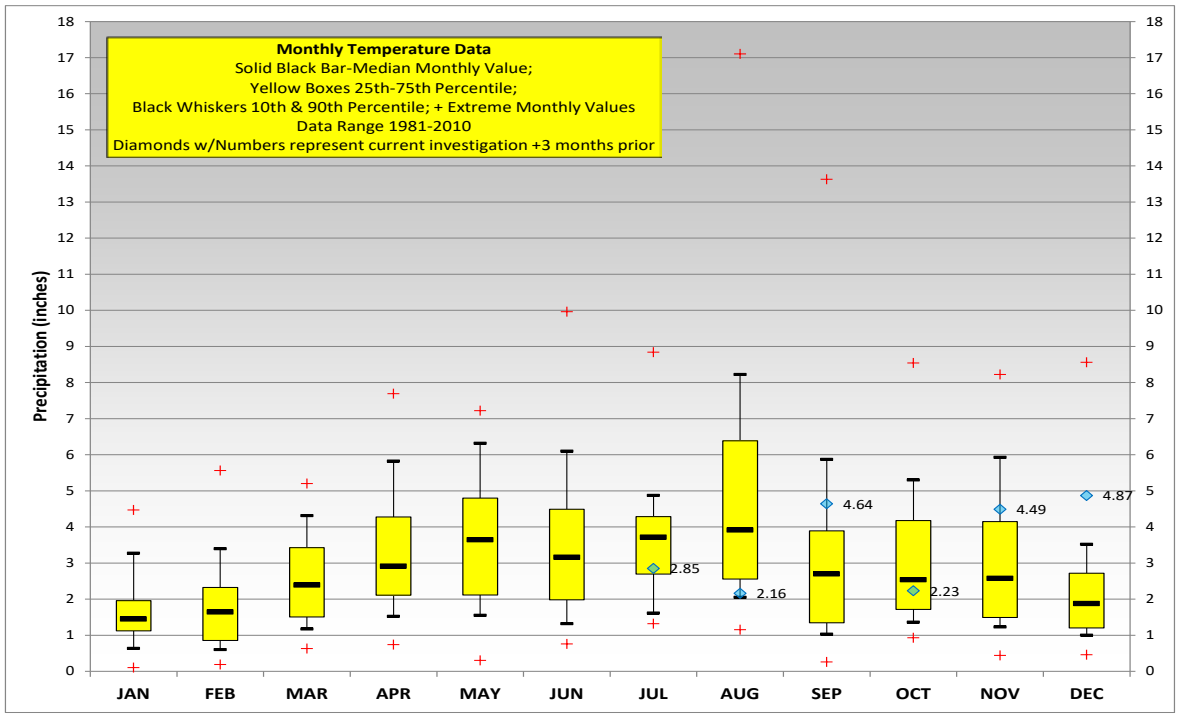

Figure 7: Monthly Precipitation Data for 2015

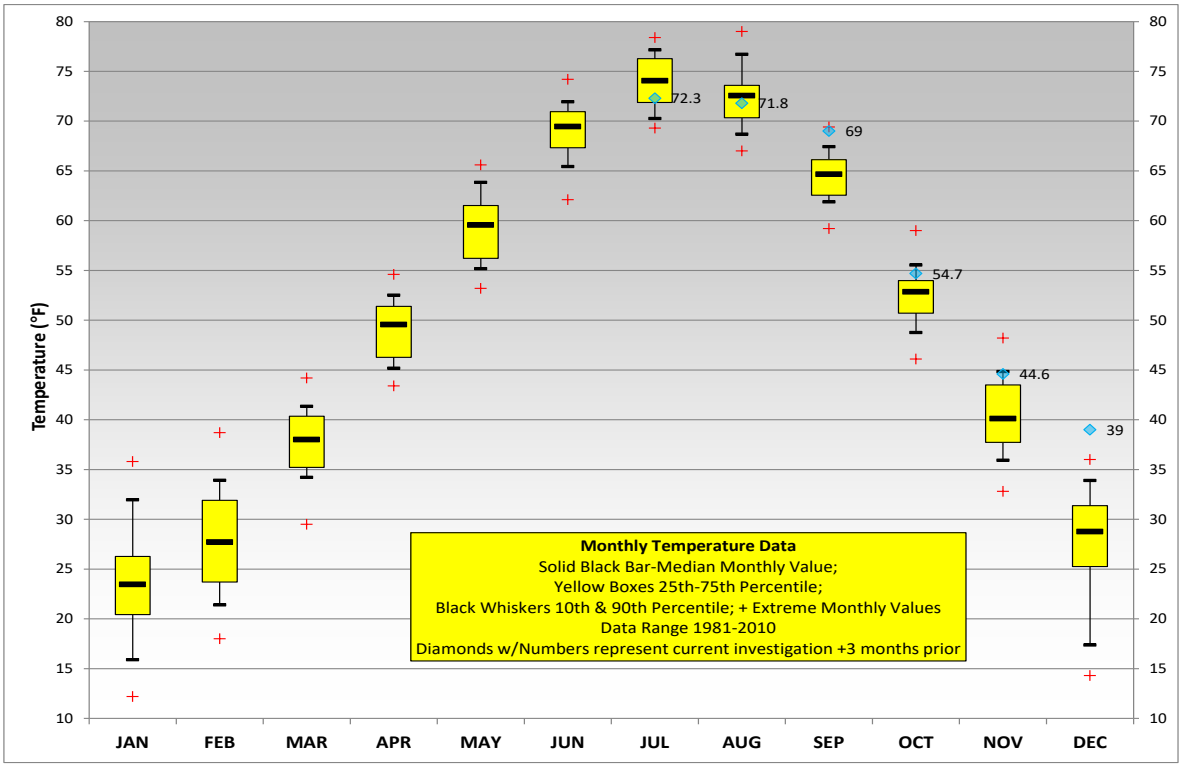

Figure 8: Monthly Temperature Data for 2015

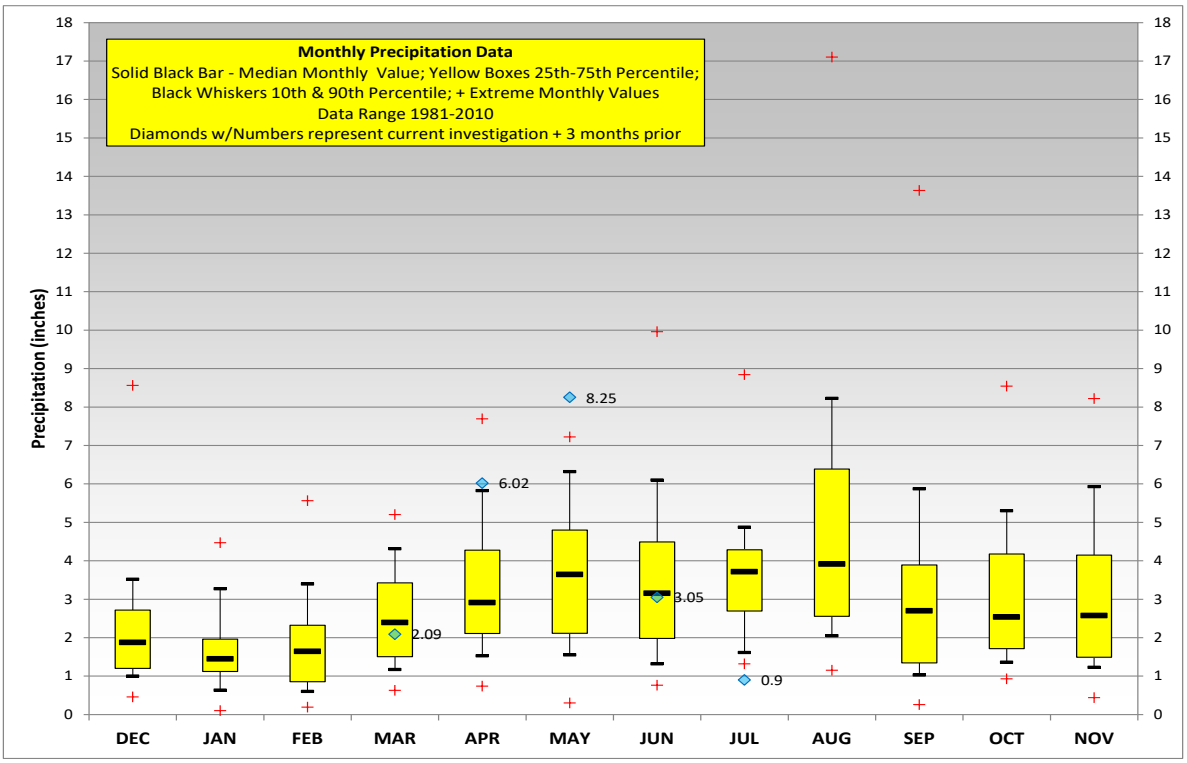

Figure 9: Monthly Precipitation Data for 2019

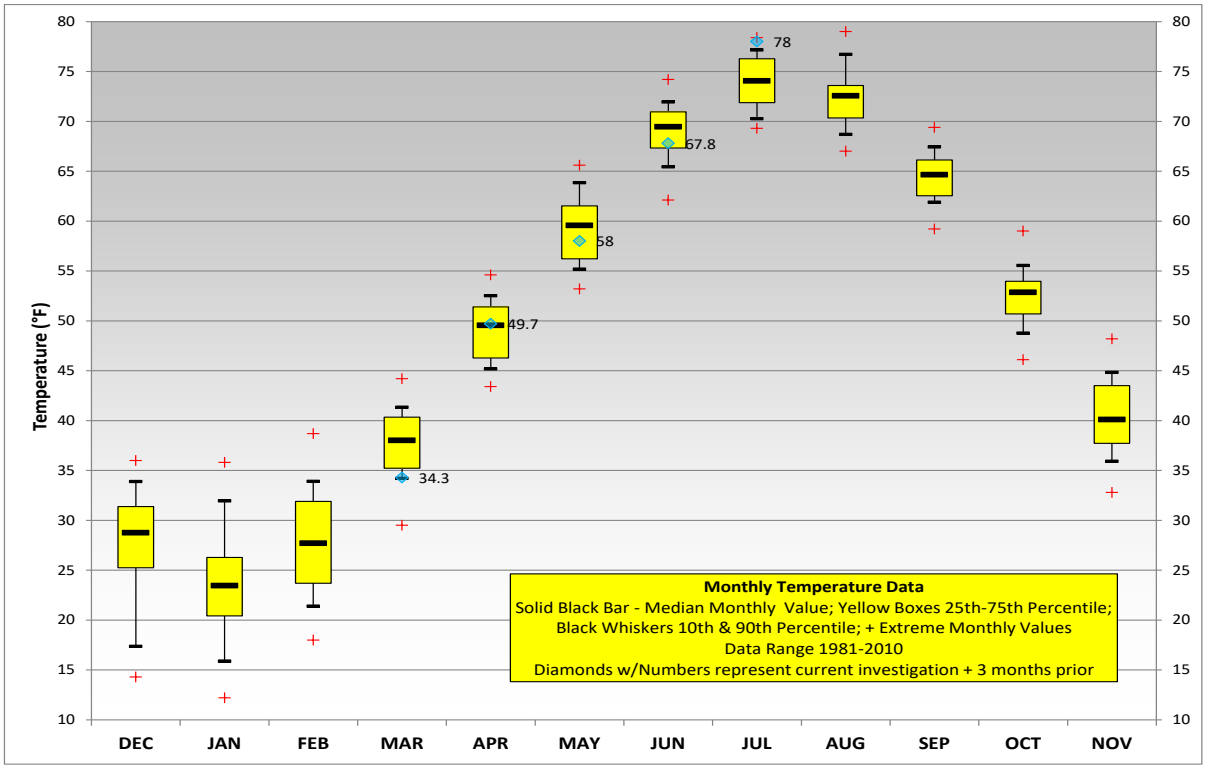

Figure 10: Monthly Temperature Data for 2019

3.0 METHODS OF INVESTIGATION

The following sections outline the methods of subsurface and laboratory investigations. All elevations in this report are based on NAVD 1988.

3.1 Subsurface Investigation

To characterize the subsurface soil and groundwater condition along each roadway alignment included in Contracts 62A76, 62A77, and 60X94, we considered data from subgrade (SGB) borings, bridge (B) borings, retaining wall (RWB) borings, light tower borings (LTB), buildings and facilities borings (BFB), sign structure borings (NB), Shelby tube borings (ST), and vane shear (VS/VST) borings. This RGR addresses 21 alignments along I-90/94 and its connecting ramps. The roadway alignment limits and main reference borings are summarized in Table 1a and 1b, along NB and SB, respectively.

The as-drilled boring locations and elevations were surveyed by others; stations and offsets were provided by AECOM or measured by Wang based on drawings provided by AECOM and TranSystems. Boring locations and elevations are shown on the *Boring Logs* (Appendix A). The as-drilled boring locations are shown in *Boring Location Plans and Soil Profiles* (Appendix E).

Truck- and ATV-mounted drilling rigs equipped with hollow stem augers were used to advance and maintain open boreholes to 10 feet and mud rotary drilling technique was used below 10 feet to boring termination depths or to the bedrock. Soil sampling was performed according to AASHTO T 206, *"Penetration Test and Split Barrel Sampling of Soils."* The soil was sampled continuously in roadway borings and at 2.5-foot intervals to 30 feet bgs and at 5-foot intervals thereafter in structure borings. A manually operated, jackhammer-driven, LB-sized Geoprobe was also used to continuously sample the soil in areas with limited access. Soil samples collected from each sampling interval were placed in sealed jars and transported to Wang Geotechnical Laboratory in Lombard, Illinois for further examination and laboratory testing. Shelby tube borings were continuously sampled in accordance with AASHTO T 207, *"Thin-walled Tube Sampling of Soils."*

Table 1a: NB Summary of Alignments and Reference Borings

Alignment	Approximate Limits		Reference Boring IDs
	Start Station	End Station	
I-90/94 NB	6100+00.00	6175+07.63	02-RWB-01 to 02-RWB-06, 02-ST-06, 0589-B-02, 1088-B-01, 1088-B-02, 1165-B-02, 1702-B-02, 1703-B-03, 1704-B-02, 1704-B-03, 1705-B-01 to 1705-B-04, 1705-B-07, 1705-B-08, 1706-B-02, 1712-B-02, 2054-B-03, 2055-B-04, 2055-B-05, 20-RWB-01, 21-RWB-01, 23-RWB-04, 24-RWB-01, 25-RWB-01, 25-RWB-02, 26-RWB-01, 27-RWB-01, 28-RWB-01, 28-RWB-02, 31-RWB-01 to 31-RWB-03, 32-RWB-01 to 32-RWB-03, 33-RWB-01, 34-RWB-01, 35-RWB-01, 35-RWB-02, BFB-01, BFB-03, LTB-07, NB90-SGB-01 to NB90-SGB-23, SB90-SGB-02, SB90-SGB-04, SB90-SGB-06 to SB90-SGB-08, SB90-SGB-15 to SB90-SGB-18, SB90-SGB-20, Z051-HA-01 to Z051-HA-03, Z051-RWB-01, Z051-RWB-02, Z051-RWB-04
Ramp NW	1799+15.31	1807+80.00	1165-B-03B, 1165-B-03C, NB90-SGB-04 to NB90-SGB-06
Roosevelt Entrance Ramp	7249+29.42	7254+21.37	1165-B-03C, 1165-B-03B, NB90-SGB-05, NB90-SGB-06
Taylor Entrance Ramp	6305+21.15	6309+70.74	02-RWB-01 to 02-RWB-06, 02-ST-06, LTB-07, NB90-SGB-08, NB90-SGB-09
NB CD Road	6319+97.50	6367+04.01	0461-HA-01, 0589-B-03, 1702-B-03 to 1703-B-05, 1704-B-04, 1705-B-02 to 1705-B-05, 1710-B-02, 1710-B-03, 1710-B-04, 1712-B-03, 1715-B-01, 2055-B-02, 21-RWB-01 to 21-RWB-05, 22-RWB-03 to 22-RWB-05, 23-RWB-01 to 23-RWB-05, 23-RWB-01HA to 23-RWB-05HA, 24-RWB-01 to 24-RWB-04, 24-RWB-02HA, 24-RWB-03HA, 24-ST-01, 25-RWB-02, 27-RWB-01 to 27-RWB-03, 27-ST-01, 28-RWB-02, 29-RWB-01, 29-RWB-02, 30-RWB-03, 31-RWB-01 to 31-RWB-03, 32-RWB-01 to 32-RWB-03, 33-RWB-01, 33-RWB-02, LTB-15 to LTB-17, NB-22, NB90-SGB-11, NB90-SGB-15, NB90-SGB-19 to NB90-SGB-23, PS-5CCTV, VST-02, VST-06, Z051-RWB-04
Ramp WN	1105+76.20	1108+99.25	1703-B-04, 1704-B-04, 1706-B-01, 1706-B-02, 1715-B-02, 2055-B-05

Alignment	Approximate Limits		Reference Boring IDs
	Start Station	End Station	
EN Slip Ramp	6502+29.74	6505+75.67	1703-B-04, 1704-B-04, 1715-B-01, 1712-B-03, 2055-B-02, 22-RWB-03, 22-RWB-04, 22-RWB-05, 23-RWB-01, 23-RWB-01HA, 23-RWB-02, 23-RWB-02HA, 23-RWB-03, 23-RWB-03HA, VST-06
Ramp EN	1617+70.00	1625+18.68	1702-B-02, 1712-B-03, 2055-B-05, 23-RWB-01 to 23-RWB-04, 24-RWB-01, NB90-SGB-14
Jackson Entrance Ramp	8240+00.00	8245+05.53	1702-B-03, 24-RWB-01, 24-RWB-02HA, 24-RWB-03, 24-RWB-03HA, 24-RWB-04, 24-ST-01, 25-RWB-01, 25-RWB-02, 26-RWB-01, NB90-SGB-15
Adams Entrance Ramp	8340+00.00	8346+09.15	0589-B-03, 2054-B-03, 27-RWB-01 to 27-RWB-03, 27-ST-01, 28-RWB-01, 28-RWB-02, 29-RWB-01, 29-RWB-02, 30-RWB-01, 31-RWB-01, LTB-15, NB90-SGB-16, NB90-SGB-17, VST-02
Madison Exit Ramp	8540+00.00	8548+86.82	0589-B-03, 27-RWB-01 to 27-RWB-03, 27-ST-01, 29-RWB-01, 29-RWB-02, 30-RWB-01 to 30-RWB-03, 30-PZ-01, 31-RWB-01 to 31-RWB-03, LTB-15, NB-22, VST-02, VST-03
Washington Exit Ramp	8680+00.00	8684+50.69	32-RWB-01, 32-RWB-02, 32-ST-01, 32-RWB-03, 33-RWB-01, 33-RWB-02, LTB-16
Randolph Exit Ramp	8740+00.00	8744+73.19	33-RWB-02, LTB-17, Z051-RWB-01, Z051-HA-01, Z051-RWB-02, Z051-RWB-04, Z051-HA-02, Z051-HA-03
Lake Exit Ramp	8840+00.00	8849+09.73	32-RWB-02, 32-RWB-03, 32-ST-01, 33-RWB-01, 33-RWB-02, LTB-17, NB90-SGB-21, NB90-SGB-22, Z051-RWB-01, Z051-HA-01, Z051-RWB-02, Z051-RWB-04, Z051-HA-02, Z051-HA-03

Table 1b: SB Summary of Alignments and Reference Borings

Alignment	Approximate Limits		Reference Boring IDs
	Start Station	End Station	
I-90/94 SB	6202+91.11	6252+85.00	0589-B-02, 08-RWB-01 to 08-RWB-03, 1087-B-03, 1165-B-01C, 1165-B-01B, 1165-B-02, 14-RWB-01 to 14-RWB-03, 15-RWB-03, 16-RWB-01A, 16-RWB-01B to 16-RWB-04, 1702-B-02, 1704-B-02, 1705-B-08, 1712-B-01, 1714-B-04, 1715-B-03, 2054-B-02, 2055-B-03, 2055-B-04, 34-RWB-01, 35-RWB-01, 35-RWB-02, 38-RWB-01, BFB-02, BFB-04, NB90-SGB-03, NB90-SGB-05, NB90-SGB-07, NB90-SGB-13, NB90-SGB-16, NB90-SGB-18, SB90-SGB-01 to SB90-SGB-20, SB90-SGB-24, SB90-SGB-25
Ramp SW	1300+00.00	1315+00.47	0589-B-01, 08-RWB-01 to 08-RWB-03, 1702-B-01, 2054-B-02, 36-RWB-01, 36-RWB-02, 37-RWB-01, 37-RWB-01, SB90-SGB-02, SB90-SGB-03, SB90-SGB-05
Adams Exit Ramp	8380+00.00	8388+18.06	2054-B-01, 2054-B-02, 36-RWB-01, 36-RWB-02, 0589-B-01, SB90-SGB-03
Jackson Exit Ramp	8280+00.00	8286+98.73	0589-B-01, 0589-B-02, 08-RWB-01 to 08-RWB-03, 36-RWB-02, 37-RWB-01, 37-RWB-02, SB90-SGB-05
SB Access Road	20+00.00	26+16.53	1712-B-01, 1714-B-04, 1704-B-01, 1704-B-02, 1705-B-08, SB90-SGB-09, SB90-SGB-10

Field boring logs, prepared and maintained by Wang geologists, include lithological descriptions, visual-manual soil classifications (IDH Soil Classification System), results of Rimac and pocket penetrometer unconfined compressive strength tests, and results of Standard Penetration Tests (SPT), recorded as blows per 6 inches of penetration.

Groundwater observations were made in each boring during and at the completion of drilling operations. The borings were backfilled after completion, and the existing surface was restored to its original condition.

3.2 Laboratory Testing

The soil samples were tested in the laboratory for moisture content (AASHTO T-265). Atterberg limits (AASHTO T 89/T 90) and particle size (AASHTO T 88) analyses were performed to classify selected samples near the proposed roadway subgrade. Field visual descriptions of the soil samples were

verified in the laboratory. The soils were classified according to the IDH Soil Classification System. Laboratory test results are shown on the *Boring Logs* (Appendix A) and in the *Laboratory Test Results* (Appendix C).

4.0 RESULTS OF FIELD AND LABORATORY INVESTIGATIONS

Detailed descriptions of the soil conditions encountered during the subsurface investigation are presented on the attached *Boring Logs* (Appendix A) and on the *Boring Location Plans and Soil Profiles* (Appendix E). Please note that strata contact lines represent approximate boundaries between soil types. The actual transition between soil types in the field may be gradual in horizontal and vertical directions.

4.1 Surface Conditions

The proposed alignments will be constructed through areas with various surficial cover, including topsoil, pavement, and demolished structures. Topsoil thickness measured at various locations across the site range from 3 to 30 inches with an average of 9 inches. Topsoil thickness as observed in borings is summarized per alignments in Table 2a and 2b, along NB and SB, respectively. Alignments were borings were not drilled in areas with topsoil, are not shown in Tables 2a and 2b.

Table 2a: NB Summary of Topsoil Thickness

Alignment	Number of Measurements	Topsoil Thickness Range (inches)	Average Thickness (inches)
NB CD Road	20	3-30	9
EN Slip Ramp	6	3-15	8
Ramp EN	5	4-8	6
Jackson Entrance Ramp	5	4-30	12
Adams Entrance Ramp	2	4-5	5
Madison Exit Ramp	2	4-5	5

Table 2b: SB Summary of Topsoil Thickness

Alignment	Number of Measurements	Topsoil Thickness Range (inches)	Average Thickness (inches)
I-90/94 SB	3	4-6	5
Ramp SW	2	4	4
Jackson Exit Ramp	2	4	4

The borings were drilled mainly in the roadway lanes and shoulders. Some of the borings were drilled outside the paved areas, in spaces between the ramps or roadway slopes. The borings drilled in the existing roadway show various pavement structures consisting of asphalt, asphalt over concrete, concrete over asphalt, or just concrete. The pavement thickness as reveled by our investigation ranges from 2 to 24 inches with an average of 14 inches. The aggregate base consists of either crushed stone or gravelly sand and its thickness ranges from 4 to 48 inches. The existing pavement thicknesses are summarized in Tables 3a and 3b, along NB and SB, respectively.

Table 3a: NB Summary of Existing Pavement Thickness and Composition

Alignment	Total Number of Measurements (No)	Pavement Structure Thickness (inches)			Pavement Average Thickness (inches)
		Asphalt No[1]/Range	Concrete No[1]/Range	Total Pavement No[1]/Range	
I-90/94 NB	81	63/2-18	68/4-18	81/4-24	14
Ramp NW	5	2/10	3/12	5/10-12	11
Roosevelt Entrance Ramp	4	1/10	3/12	4/10-12	12
Taylor Entrance Ramp	8	6/4	712-16	8/4-18	15
NB CD Road	39	35/3-18	34/6-18	39/3-24	14
Ramp WN	4	4/2-16	2/10	4/12-16	14
EN Slip Ramp	5	4/3-18	4/7-17	5/10-18	14

Alignment	Total Number of Measurements (No)	Pavement Structure Thickness (inches)			Pavement Average Thickness (inches)
		Asphalt No[1]/Range	Concrete No[1]/Range	Total Pavement No[1]/Range	
Ramp EN	9	9/3-18	7/7-9	9/10-18	13
Jackson Entrance Ramp	7	7/3-6	7/6-10	7/12-15	14
Adams Entrance Ramp	11	11/4-18	10/7-18	11/12-24	16
Madison Exit Ramp	9	9/3-7	8/7-21	9/3-24	16
Washington Exit Ramp	7	7/4-12	6/7-14	7/12-18	14
Randolph Exit Ramp	3	3/2-5	2/7-12	3/2-16	10
Lake Exit Ramp	10	10/2-12	8/7-14	10/2-18	12

[1]No = number of measurements along the alignment.

Table 3b: SB Summary of Existing Pavement Thickness and Composition

Alignment	Total Number of Measurements (No)	Pavement Structure Thickness (inches)			Pavement Average Thickness (inches)
		Asphalt No[1]/Range	Concrete No[1]/Range	Total Pavement No[1]/Range	
I-90/94 SB	63	38/2-17	58/4-17	63/9-20	14
Ramp SW	11	6/3-6	11/8-14	11/8-18	13
Adams Exit Ramp	11	7/3-6	10/7-14	11/4-18	12
Jackson Exit Ramp	10	6/3-6	9/8-16	10/3-20	13
SB Access Road	6	5/2-12	5/8-14	7/9-14	12

[1]No = number of measurements along the alignment.

4.2 Soil Conditions

In descending order, the general lithologic succession encountered beneath the pavement structure and topsoil includes: 1) man-made ground (fill); 2) medium stiff to hard silty clay; and 3) very soft to

medium stiff clay. Soils deeper than the very soft clay will not impact the roadway pavement design and are not discussed in this section but shown in the boring logs.

1) Man-made ground (fill)

Underneath the surface (pavement or topsoil), the borings encountered 1.25 to 20.0 feet of cohesive and granular fill consisting of either medium stiff to hard, brown and gray silty clay to clay loam or very loose to very dense, brown silty loam, loam, sand to gravelly sand. The cohesive fill has unconfined compressive strength (Q_u) values of 0.3 to 6.6 tsf with an average of 2.2 tsf. Moisture content (MC) tests indicate values between 8 and 25% with an average of 18%. Laboratory index testing performed on samples from cohesive fill shows liquid limit (L_L) values of 25 to 43% and plastic limit (P_L) values of 15% to 22%. According to the AASHTO soil classification, the subgrade soil belongs mainly to the A-6 group occasionally to A-7-6 group. The granular fill material has N-values measures between 0 and more than 50 blows/foot with an average of 18 blows/foot and MC values of 2 to 31% averaging 10%. Several borings drilled from recently improved ramps advanced through lightweight concrete fill that showed low SPT-values (1 to 4 blows/foot) and high moisture contents (48 to 74%), these values were excluded from the summary considered not to being relevant for the fill unit in its entirety. A summary of the fill properties, along each alignment, is shown in Tables 4a and 4b along I-90/94 NB and SB, respectively.

Table 4a: NB Summary of Existing Fill Properties

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
I-90/94 NB	0.3-6.6/2.0	2-61/17	3-33/11	29-43	15-22
Ramp NW	1.0-2.2/1.6	3-20/7	4-28/11	NA	NA
Roosevelt Entrance Ramp	1.0-1.9/1.5	3-13/6	7-26/11	NA	NA
Taylor Entrance Ramp	6.6/na	5-47/27	2-11/7	NA	NA
NB CD Road	0.3-6.6/2.3	1-58/13	2-31/15	32-34	17
Ramp WN	NA	6-26/12	6-23/15	NA	NA
EN Slip Ramp	1-4.5/2.8	3-58/16	2-31/18	NA	NA

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
Ramp EN	0.6-1.6/1.2	4-26/12	6-17/12	NA	NA
Jackson Entrance Ramp	0.6-2.7/2.1	1-13/6	5-20/14	NA	NA
Adams Entrance Ramp	0.9-3.5/1.9	3-61/18	3-28/11	NA	NA
Madison Exit Ramp	0.3-2.5/1.3	2-47/14	2-28/12	NA	NA
Washington Exit Ramp	0.5-2.3/1.1	4-22/12	3-24/11	NA	NA
Randolph Exit Ramp	0.5/na	3->50/20	3-18/11	NA	NA
Lake Exit Ramp	0.5-2.5/1.3	3->50/15	3-24/13	34	17

Table 4b: SB Summary of Existing Fill Properties

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
I-90/94 SB	0.6-5.2/2.0	3->50/18	3-33/11	25-43	15-22
Ramp SW	1.0-2.5/1.8	0->50/14	3-25/10	29	15
Adams Exit Ramp	1.8/na	0-38/12	3-20/10	NA	NA
Jackson Exit Ramp	1.0-1.6/1.4	0-45/14	3-25/9	NA	NA
SB Access Road	2.9-6.6/4.5	8-28/17	5-18/12	NA	NA

2) Medium stiff to hard silty clay

Beneath the fill, most of the borings advanced through about 2- to 10-foot thick of medium stiff to hard silty clay to silty clay loam with Q_u values of about 0.6 to 3.6 tsf, with an average of 1.6 tsf and MC values of 9 to 33% with an average of 21%. Laboratory index testing performed on samples from this

unit shows L_L values of 26 to 35% and P_L values of 15% to 19%. According to the AASHTO soil classification, the subgrade soil belongs mainly to the A-6 group. A summary of the unit properties along each alignment is shown in Tables 5a and 5b, along I-90/94 NB and SB, respectively.

Table 5a: NB Summary of Stiff Silty Clay Unit Properties

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
I-90/94 NB	0.6-3.28/1.4	1-10/6	9-33/20	26-35	13-18
Ramp NW	1.39	4	15	NA	NA
Roosevelt Entrance Ramp	NA	NA	NA	NA	NA
Taylor Entrance Ramp	0.7-2.4/1.2	5-9/7	17-29/22	26-30	13-14
NB CD Road	0.7-3.6/1.8	4-12/7	9-25/19	32	19
Ramp WN	NA	NA	NA	NA	NA
EN Slip Ramp	0.7-2.9/1.6	3-10/7	18-24/20	NA	NA
Ramp EN	NA	NA	NA	NA	NA
Jackson Entrance Ramp	1.2-1.6/1.4	6-8/7	9-22/17	NA	NA
Adams Entrance Ramp	2.6	13	20	NA	NA
Madison Exit Ramp	1.0-2.6/1.9	7-13/9	13-24/18	NA	NA
Washington Exit Ramp	3.4	8	17	NA	NA
Randolph Exit Ramp	1.6-2.3/2.0	5-8/6	23-26/25	NA	NA
Lake Exit Ramp	1.6-2.3/2.0	5-8/6	23-26/25	NA	NA

Table 5b: SB Summary of Stiff Silty Clay Unit Properties

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
I-90/94 SB	0.8-3.0/1.7	4-10/7	14-25/20	30-35	16-18
Ramp SW	1.1-2.5/1.7	3-9/6	20-25/22	NA	NA
Adams Exit Ramp	2.6	5	21	NA	NA
Jackson Exit Ramp	1.1-2.8/1.8	4-10/7	14-25/21	NA	NA
SB Access Road	1.2-1.6/1.4	6-10/8	18-20/19	31	17

3) Very soft to medium stiff clay

From elevations of 587 to 565 feet, the borings encountered up to 40 feet of very soft to medium stiff and rarely stiff, gray clay to silty clay occasionally silty clay loam. This unit has Qu values (Rimac) of 0.03 to 1.0 tsf and rarely up to 1.8 tsf with an average of 0.4 tsf and MC values of 13 to 46% averaging 25%. Laboratory index testing performed on samples from this unit show L_L values of 28 to 53% and P_L values of 14 to 23%. According to the AASHTO soil classification, the subgrade soils belong mainly to the A-6 ans A-7-6 groups. A summary of the unit properties along each alignment is shown in Tables 6a and 6b, along I-90/94 NB and SB, respectively.

Table 6a: NB Summary of Very Soft to Medium Stiff Clay Properties

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
I-90/94 NB	0.1-1.8/0.4	0-19/3	13-46/25	30-53	15-23
Ramp NW	0.1-1.6/0.5	0-8/3	15-36/26	35	15
Roosevelt Entrance Ramp	0.1-1.6/0.5	0-8/3	15-36/26	35	15
Taylor Entrance Ramp	0.2-1.2/0.4	0-12/4	16-35/25	33-37	15-17
NB CD Road	0.1-1.8/0.4	0-13/4	15-44/25	29-36	15-18

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
Ramp WN	0.2-0.8/0.4	1-15/4	13-28/24	35	15
EN Slip Ramp	0.1-1.0/0.4	1-8/4	16-29/24	32-36	17-18
Ramp EN	0.2-1.1/0.5	0-9/3	18-28/24	35	15
Jackson Entrance Ramp	0.2-1.7/0.4	0-10/4	14-36/24	32	17
Adams Entrance Ramp	0.1-1.0/0.4	0-17/3	15-37/25	34-37	16-19
Madison Exit Ramp	0.1-1.8/0.4	0-18/3	15-37/25	30-34	16-17
Washington Exit Ramp	0.1-1.0/0.3	2-11/4	20-28/25	NA	NA
Randolph Exit Ramp	0.1-0.8/0.3	2-9/3	17-32/25	NA	NA
Lake Exit Ramp	0.1-1.0/0.3	2-9/3	16/32/25	NA	NA

Table 6b: SB Summary of Very Soft to Medium Stiff Clay Properties

Alignment	Q_u Min-Max/Avg. (tsf)	SPT N-values Min-Max/Avg. (blows/foot)	Moisture Content Min-Max/Avg (%)	Liquid Limit Min-Max (%)	Plastic Limit Min-Max (%)
I-90/94 SB	0.1-1.8/0.4	0-23/3	13-46/25	34-53	15-23
Ramp SW	0.2-1.2/0.4	0-10/2	16-34/24	28-36	14-17
Adams Exit Ramp	0.2-0.9/0.4	0-10/3	18-34/25	42	19
Jackson Exit Ramp	0.2-1.2/0.4	0-6/2	16-30/24	36	17
SB Access Road	0.2-0.7/0.4	2-11/4	16-28/24	NA	NA

4.3 Groundwater Conditions

Groundwater was observed in 48 out of 200 borings along the alignments during drilling at elevations of 497.6 to 588.9 feet (2.5 to 89.0 feet bgs). After drilling, the groundwater was measured in 14 borings at elevations of 492.7 to 574.8 feet (2.5 to 90.0 feet bgs). In seven borings, groundwater was measured 24 to 120 hours after drilling completion, and its level was recorded at 500.9 to 577.0 feet elevations, or 2.0 and 77.0 feet bgs. Under pressure, groundwater was observed in granular layers within the diamicton and top of the bedrock. Because their depths the under pressure groundwater will not influence the pavement design.

During periods of precipitation, we anticipate that perched groundwater may be encountered, but otherwise the static water level is deep seated and will not impact the roadway or pavement design.

Within this project limits, Wang installed a monitoring well in Borehole DBT-VST-01 (PZ-AIS) at Station 6124+25 in the proposed stormwater detention area situated between I-90/94 NB and SB, south of the Circle interchange. The piezometer was set within Unit 3 the *very soft to medium stiff clay* between 5.0 and 45.5 feet bgs. The monitoring well showed an average water table elevation of 568.5 feet (about 10 feet bgs). Is known that ***within the soft clay unit, possible thin lenses of saturated silt are prone to release water into excavated sections***.

5.0 ENGINEERING ANALYSIS AND RECOMMENDATIONS

Typical pavement section from the design drawings provided by AECOM and TranSystems (Appendix D) indicate the pavement will consist of Portland Cement Concrete (PCC) either continuously reinforced (CRC), jointed or not over stabilized hot-mix asphalt (HMA) base and 12 inches of IDOT aggregate subgrade improvement (ASI). Temporary pavement will consist of either HMA or PCC over subbase granular material. The analyses address pavement design along the alignments listed in Section 1.0.

Cross sections show the alignments sharing the embankment and roadway sections. Within the shared sections, the treatment will refer to the entire extent of common subgrade or foundation. When finished, the ramps will include one to three lanes and shoulders on both sides and I-90/94 will include 4 to 6 lanes and shoulders on both sides. Typical pavement sections are attached in Appendix D.

5.1 Site Preparation and Earthwork

It is recommended that the existing topsoil, pavements, and construction debris be stripped within the limits of the proposed pavements, embankment fill, and grading. For estimating purposes, the

average topsoil thickness to be stripped from the surface is 9 inches. According to IDOT District One policy, a shrinkage factor of 15% should be used to measure borrowed and furnished excavation quantities.

The exposed subgrade throughout the extent of the improvement will consist of very soft to medium stiff clay, stiff to hard silty clay, and granular or cohesive fill. ***It should be anticipated that very soft to medium stiff clay will fail attempts to proofrolling due to excessive deflection and rutting***; therefore, additional subgrade treatment should be provided, as discussed in Section 5.2.

5.2 Subgrade Treatment and Recommendations

Based on the result of our subsurface investigation we expect the subgrade will consist of stiff to hard silty clay fill, stiff to hard silty clay diamicton, and very soft to medium stiff clay. Tables 7a and 7b summarize the subgrade soil conditions below the proposed pavement including the 12 inches of aggregate subgrade improvement (ASI) and our recommendations for subgrade improvement.

Table 7a: NB Summary of Subgrade Soil Condition and Estimated Undercut

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) ***Note 1***
	Stations	Width		
I-90/94 NB ***Note 2***	6100+00 to 6175+08	full width	***Note 2***	***Note 2***
Ramp NW	1803+00 to1805+50	full width	Very soft to medium stiff clay; Qu>1.0 tsf (**Unit 3**); Moist to wet	24
Roosevelt Entrance Ramp	7250+57 to 7252+00	full width	Very soft to medium stiff clay; Qu>1.0 tsf **(Unit 3)**; moist to wet	24
NB CD Road	6320+00 to 6338+50	full width	571.7 to 582.2 feet / Very soft to soft clay **(Unit 3)** Qu=0.2-0.8 tsf ; MC=21-29%	24
	6333+90 to 6334+10 ***Note 3***	0 to 15RT	60” RCP combined sewer crossing	0
	6338+50 to 6340+70	east half	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.6 tsf ; N=1-5bw/ft; MC=20-30%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) ***Note 1***
	Stations	Width		
	6340+70 to 6347+85	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.6 tsf ; N=1-5bw/ft; MC=20-30%; moist to wet	24
	6347+85 to 6348+15 ***Note 4***	full width	Monroe Siphon	9
	6348+15 to 6355+00	East half	Very soft to med stiff clay (**Unit 3**) Qu=0.1-0.7 tsf ; N=0-5blw/ft; MC=20-30%; moist to wet	24
Ramp EN	1617+70 to 1624+00	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.3-0.5 tsf ; N=2-5blw/ft; MC=16-25%; moist to wet	24 ***Note 5***
EN Slip Ramp	6502+30 to 6505+76	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.3-0.8 tsf ; N=1-5blw/ft; MC=19-25%; moist to wet	24 ***Note 6***
Adams Entrance Ramp	8342+00 to 8343+65 ***Note 7***	full width	Settlement >1inch	LCCF*/ see SGR for 016-1701, 016-1817 and 016-1818
	8343+65 to 8346+09	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.5-0.8tsf ; N=3-6blw/ft; MC=18-24%; moist to wet	24
Madison Exit Ramp	8540+00 to 8546+78 ***Note 8***	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.1-0.8tsf ; N=3-6blw/ft; MC=18-30%; moist to wet	24
	8546+78 to 8548+87 ***Note 7***	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.1-0.8tsf ; N=3-6blw/ft; MC=18-30%; moist to wet	LCCF*/ see SGR for 016-1820
Washington Exit Ramp	8680+00 to 8682+70	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.6 tsf ; N=1-6blw/ft; MC=21-28%; moist to wet	24
	8682+70 to 8684+51 ***Note 7***	full width	Settlement >1inch	LCCF*/ see SGR for SN 016-1803
Randolph Exit Ramp	8743+30 to 8744+00	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.3 tsf ; N=2-3blw/ft; MC=26-27%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) ***Note 1***
	Stations	Width		
Lake Exit Ramp	8840+00 to 8842+00	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.4 tsf ; N=0-6blw/ft; MC=21-31; moist to wet	24
	8842+76 to 8842+78 ***Note 9***	5 LT to 5RT	existing CDWM (12" WM)	0
	8845+00 to 8847+50	5LT to 5RT	Very soft to med stiff clay (**Unit 3**) Qu>1tsf ; moist to wet	24

Table 7b: SB Summary of Subgrade Soil Condition and Estimated Undercut

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) ***Note 1***
	Stations	Width		
I-90/94 SB	6206+50 to 6209+50	0 to 28RT	Very soft to med stiff clay (**Unit 3**) Qu=0.3-0.6 tsf ; N=1-5bw/ft; MC=18-26%; moist to wet	24
	6211+50 to 6213+50	~20RT to 30RT	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.4 tsf ; N=1-5bw/ft; MC=21-27%; moist to wet	24
	6215+00 to 6217+00	0 to 40LT	Very soft to med stiff clay (**Unit 3**) Qu=0.5-0.9 tsf ; N=4-5bw/ft; MC=17-24%; moist to wet	24
	6220+25 to 6223+25	~0 to 35RT	Very soft to med stiff clay (**Unit 3**) Qu=0.4-0.5 tsf ; N=3-4bw/ft; MC=22-25%; moist to wet	24
	6224+48 to 6225+07 ***Note 10***	12 LT to 0 0 to 34 RT	CTA Tunnel	0 SN 016-D006
	6225+20 to 6228+50	10RT to 40RT	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.7 tsf ; N=2-4bw/ft; MC=23-26%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) ***Note 1***
	Stations	Width		
	6230+70 to 6230+85 ***Note 11***	34LT to 43LT	Cermak Pumping Station WM	0
	6232+24 to 6232+40 ***Note 12***	34LT to 42LT	Cermak Pumping Station WM	0
	6238+25 to 6239+75	20RT to 75 RT	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.7 tsf ; N=2-4bw/ft; MC=23-26%; moist to wet	24
	6239+75 to 6242+50	20Rt to 75RT 20LT to 45LT	Very soft to med stiff clay (**Unit 3**) Qu=0.5-0.9 tsf ; N=2-5bw/ft; MC=19-23%; moist to wet	24
	6242+50 to 6247+75	20LT to 45LT	Very soft to med stiff clay (**Unit 3**) Qu=0.3-0.9 tsf ; N=3-4bw/ft; MC=18-28%; moist to wet	24
	6247+75 to 6252+25	~50RT to 60RT	Very soft to med stiff clay (**Unit 3**) Qu=0.3-0.9 tsf ; N=3-4bw/ft; MC=18-28%; moist to wet	24
Ramp SW ***Note 13***	1304+50 to 1305+40	10 LT to 24 LT	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.4 tsf ; N=0-5bw/ft; MC=21-27%; moist to wet	24
	1309+50 to 1315+00.47	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.1-0.4 tsf ; N=3-5bw/ft; MC=23-26%; moist to wet	24
Adams Exit Ramp	8382+50 to 8382+80	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.1-0.4 tsf ; N=3-5bw/ft; MC=23-26%; moist to wet	24
	~8382+80 to 8383+90 ***Note 14***	full width	at existing Monroe Siphon	0
Jackson Exit Ramp	8280+00 to 8282+00	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.1-0.2 tsf ; N=0-1blw/ft; MC=20-25%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) ***Note 1***
	Stations	Width		
	8282+80 to 8284+50	full width	Very soft to med stiff clay (**Unit 3**) Qu=0.2-0.5 tsf ; N=0-4blw/ft; MC=19-26%; moist to wet	24
SB Access Road	20+00 to 26+17	full width	Very soft to med stiff clay (**Unit 3**) Qu=<0.6 tsf ; N=<6 blw/ft; moist to wet	24

Notes:

1. *Include the 12" ASI as part of pavement design; undercut is measured from the bottom of 12" ASI;*
2. *Subgrade along I-90/94 NB show good conditions and no treatment necessary except for areas crossing over existing medians and between existing roads and the need for subgrade treatment should be determined in the field during construction;*
3. *No subgrade undercut at the 60" combined sewer; geogrid could be considered below the ASI and /or structural slab could be considered to cross the CS;*
4. *9" undercut with geogrid reinforcement as per Project Special Provisions for Geotechnical Reinforcement (8/1/2018);*
5. *Between Stations 1617+70 and 1620+00, the extent and/or need for subgrade treatment should be determined in the field during construction;*
6. *Between Station 6504+00 to 6505+00 subgrade show good conditions and no treatment necessary for west half; the extent and need for subgrade treatment should be determined in the field during construction;*
7. *IDOT District One Class III Lightweight Cellular Concrete Fill (LCCF) for recommendation see SGRs;*
8. *Along Wall 30 (016-1819) 9" to 12" undercut with geogrid reinforcement as per Project Special Provisions for Geotechnical Reinforcement (8/1/2018);*
9. *No need for subgrade undercut at the existing CDWM; geogrid reinforcement could be considered below the ASI;*
10. *No subgrade improvement at CTA tunnel; structure slab could be constructed for the pavement crossing the CTA tunnel;*
11. *No subgrade improvement at Cermak Pumping Station WM crossing;*
12. *No subgrade improvement at Cermak Pumping Station WM crossing;*
13. *Along Ramp SW, the median between the existing roadway pavement will be crossed by new*

pavement and the need for subgrade treatment should be determined in the field during construction;

14. *No need for subgrade improvement at the 60" Monroe Siphon crossing; geogrid could be considered below the ASI.*

To reduce the 24 inches of undercut, the following geosynthetics reinforced aggregate platform could be considered.

Recommendations for the reinforced aggregate platform

1. *A geotextile fabric should be place at the base of the undercut;*
2. *The 24 inches of undercut treatment, can be reduced to 12 inches of undercut below the traffic lanes and to 9 inches of undercut below shoulders near the walls by the placing of bi-axial or tri-axial geogrid.* ***The geogrid could be used within wall limits and reduce the undercut thickness to not interfere with the walls structural design.*** *The geogrid is designed specifically for the proposed average daily traffic volume, design life of the pavement, number of proposed axels, and axel loads. See Project Special Provisions for Geotechnical Reinforcement (08/01/2018);*
3. *Special care will be required in compacting embankment next to the MSE wall panels. Suitable hand operated compacting equipment will be required.*

The geotextile fabric should be placed at the base of all undercuts for ground separation according to Section 210 (2016). The improved subgrade should be in accordance with the Bureau of Design and Environment special provision, *Aggregate Subgrade Improvement.*

5.3 Subgrade Support Rating

Laboratory testing on the subgrade soils shows a Subgrade Support Rating (SSR) of POOR to FAIR. The pavement should be design based on SSR of POOR or on an IBR of 2, as per IDOT correlation to the A-7-6 soil classification encountered during the investigation (IDOT, 2015).

5.4 Roadway Drainage

The proposed subgrade and pavement should have proper surface grading to remove water accumulations and prevent the pooling of water. The clayey subgrade, encountered immediately beneath the proposed roadway pavement, have high clay and silt contents and will exhibit poor drainage characteristics. Although the soils are not frost susceptible, the installation of six-inch diameter transverse underdrains at the low points in the proposed profile and at 300-foot intervals between is recommend to ensure the long-term performance of the pavement. The underdrains should be installed at a depth immediately below the base of improved subgrade elevation and should not be wrapped in filter fabric. The underdrains should tie into the storm water drainage

system, and should be installed per Article 601 in the IDOT Standard Specifications and consist of Type 2 underdrains (Adopted January 1, 2016).

5.5 Embankment Cuts

Existing embankments and slopes along I-90/94 improvements will be cut as part of the widening and realignment of the roadway section. To support the proposed cuts, several retaining walls will be constructed. Tables 8a and 8b, summarize the structures along the proposed alignments for I-90/94 NB and SB, respectively. The retaining walls were addressed in separate structure geotechnical reports.

Table 8a: NB Summary of Structures

Alignment	Wall Number	Structure Number 016-XXXX	Retained Roadway Section
Taylor Entrance Ramp	1	1720	Ramp East side
NB C-D Rd	22A, 22B, 23, 24	Z044, Z045, 1814, Z016	Ramp East side
Ramp WN	46	1833	North approach embankment
Jackson Entrance Ramp	25, 26	1702	Ramp embankment
Adams Entrance Ramp	27, 28	1701	Ramp embankment
Madison Exit Ramp	30, 31	1819, 1820	Ramp East and West side
Washington Exit Ramp	33	1821	Ramp East and West side
Randolph Exit Ramp	52	Z051	Ramp East side

Table 8b: SB Summary of Structures

Alignment	Wall Number	Structure Number 016-XXXX	Approximate Location
Adams Exit Ramp	36	1825	Ramp East side
Jackson Exit Ramp	8, 37	1727, 1826	Ramp's East and West side

5.5.1 Settlement

Some of the approach roadway embankments are retained on each side by walls. By using regular IDOT fill (unit weight of 125 pcf), the embankment will undergo more than 1-inch settlement within the highest embankment section. The treatment recommendations in Table 7 will reduce the settlement to 1 inch or less. The MSE retaining walls are designed with IDOT District One Class III LCCF or Class I LCCF as applies, and sometimes with ground improvement to satisfy the settlement criterion for the roadway.

5.5.2 Global Stability

In general the slopes along some of the roadway sections will be graded from 1:3 to 1:6 (V:H). Walls retain most of the ramps embankments. We estimate the slopes outside the walls meet the IDOT required minimum FOS of 1.5 where fill and 1.7 were in cut.

Along NB CD Road slope stability analyses of the cut side slope at Station 6324+00, where the maximum cut is about 20 feet and sloped at 1:3 (V:H), showing calculated minimum factor of safety (FOS) is 1.76 greater than the minimum required by IDOT of 1.7 for cut sections (Exhibit 5).

6.0 CONSTRUCTION CONSIDERATIONS

6.1 Excavation, Dewatering, and Utilities

Excavations should be performed in accordance with local, State, and federal regulations. The potential effect of ground movements upon nearby roadways and utilities should be considered during construction. Excavations should be sloped at no greater than 1:2 (V:H) if steeper slopes are elected by contractors, each location needs to be analyzed on an individual basis. Excavations required to reach the base elevations of the retaining walls, as well as for undercutting, may require dewatering. Groundwater is known to be present within the soft clay (Unit 3) and in granular lenses encountered throughout. The Contractor should ensure proper surface grading to prevent the pooling of run-off

into open excavations. Any water allowed to enter excavations should immediately be removed via sump pump. For the sewers and drainage excavation established in soft clay, Contractor should place 12 inches of aggregate and geofabric at the base.

6.2 Filling and Backfilling

General fill used as embankment material should be structural fill except as noted in Section 5.2. Pre-approved, compacted, cohesive or granular soil conforming to Section 204, *Borrow and Furnished Excavation* would be acceptable as structural fill (IDOT 2016). The fill material should be free of organic matter and debris and should be placed in lifts and compacted in accordance to Section 205, *Embankment*. The Embankment construction should meet the requirements of the current District One *Embankment I* Special Provisions. The existing fill material excavated from the embankments may be reused elsewhere if it conforms to the following criteria: a) L_L less than 50%; b) plasticity index less than 20%; c) maximum dry density greater than 90 pcf according to AASHTO T 99; and d) organic content less than 10%.

6.3 Earthwork Operations

The required earthwork can be accomplished with conventional construction equipment. Moisture and traffic will cause deterioration of exposed subgrade soils. Precautions should be taken by the contractor to prevent water erosion of the exposed subgrade. A compacted subgrade will minimize water runoff erosion.

Earth moving operations should be scheduled to not coincide with excessive cold or wet weather (early spring, late fall or winter). Any soil allowed to freeze or soften due to the standing water should be removed. Wet weather can cause problems with subgrade compaction.

It is recommended that an experienced geotechnical engineer be retained to inspect the exposed subgrade, monitor earthwork operations, and provide material inspection services during the construction phase of this project.

7.0 QUALIFICATIONS

The analysis and recommendations submitted in this report are based upon the data obtained from the borings drilled at the locations shown on the boring logs and in Appendix E. This report does not reflect any variations that may occur between the borings or elsewhere on the site, variations whose nature and extent may not become evident until the course of construction. In the event that any changes in the design and/or location of the roadway are planned, we should be timely informed so that our recommendations can be adjusted accordingly.

It has been a pleasure to assist AECOM and the Illinois Department of Transportation on this project. Please call if there are any questions, or if we can be of further service.

Respectfully Submitted,

WANG ENGINEERING, INC.

Cornelia L. Marin, P.G.
Senior Engineering Geologist

Corina T. Farez, P.E., P.G.
Project Manager

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BAUER, R.A., CURRY, B.B., GRAESE, A.M., VAIDEN, R.C., SU, W.J., and HASEK, M.J., 1991, Geotechnical Properties of Selected Pleistocene, Silurian, and Ordovician Deposits of Northeastern Illinois: Environmental Geology 139, Illinois State Geological Survey, 69 p.

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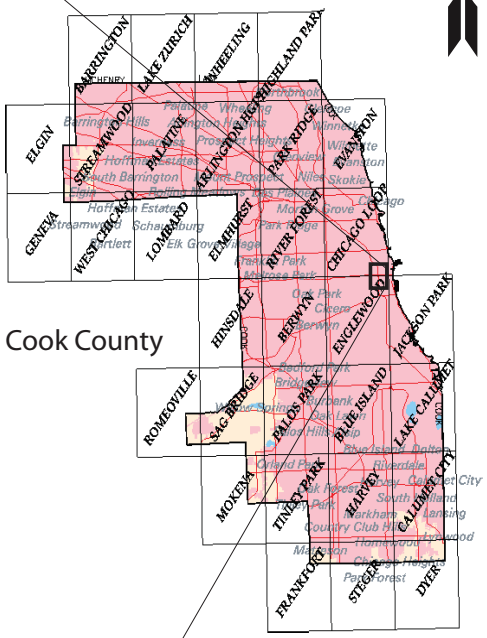
EXHIBITS

1. Site Location Map
2. Site and Regional Geology
3. I-90/94 and Connecting Ramps Plan
4. Subgrade Support Rating
5. Slope Stability NB CD Road



Contract 62A76 Alignments
(NB I-90/94, Ramp NW, Roosevelt Entrance, Taylor Entrance, NB CD Road, Ramp WN, EN Slip Ramp, Ramp EN, Jackson Entrance Ramp, Adams Entrance Ramp, Madison Exit Ramp, Washington Exit Ramp, Randolph Exit Ramp, Lake Exit Ramp)

Contract 62A77 Alignments(
SB I-90/94, Ramp SW, Adams Exit Ramp, Jackson Exit Ramp, SB Access Rd)

Contract 60X94 Alignments
(Jackson Entrance Ramp, Jackson Exit Ramp, Adams Entrance Ramp, Adams Exit Ramp)

SITE LOCATION MAP: JANE BYRNE INTERCHANGE CONTRACTS (62A76, 62A77, AND 60X94), COOK COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 1

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CHECKED BY: C. Marin

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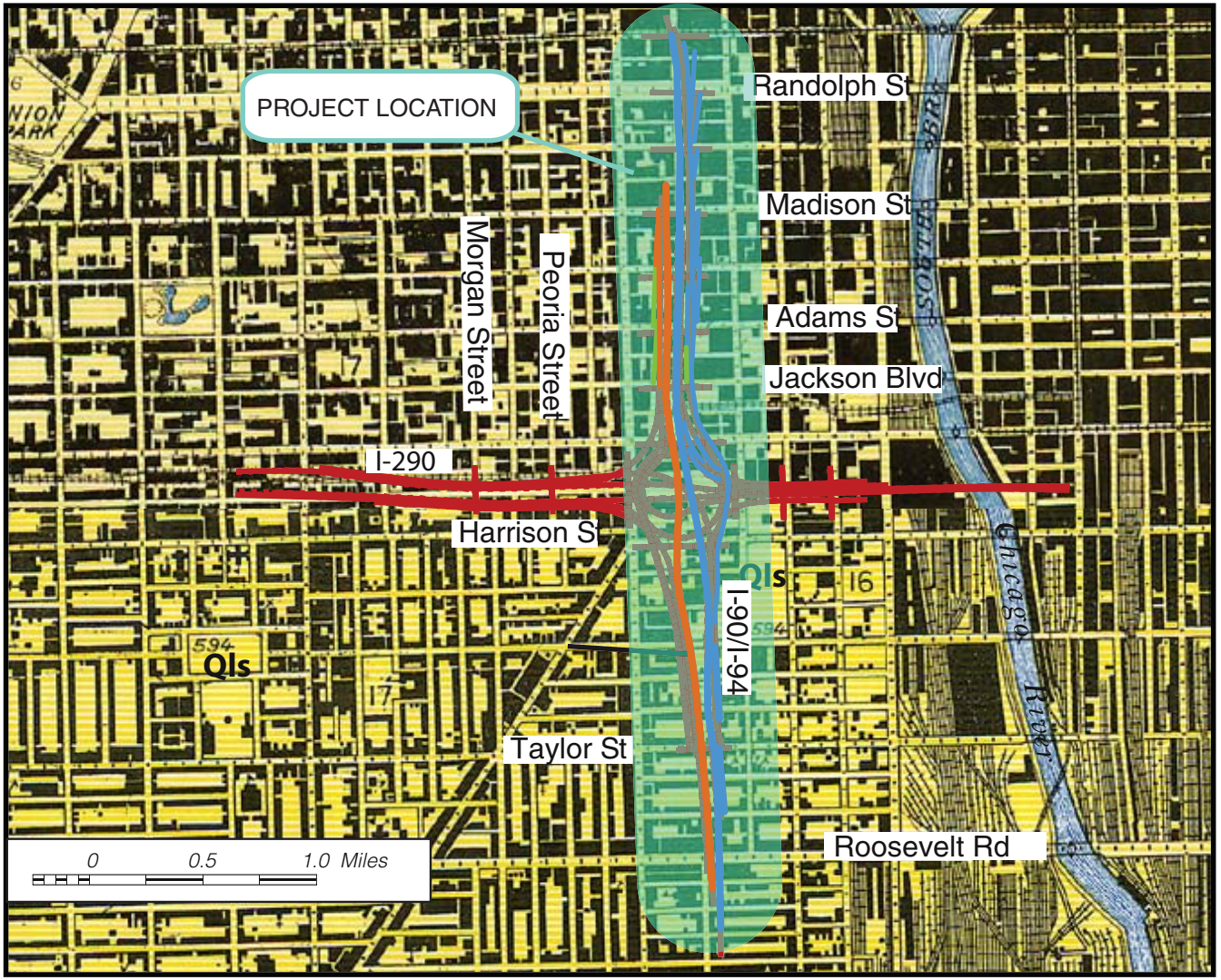

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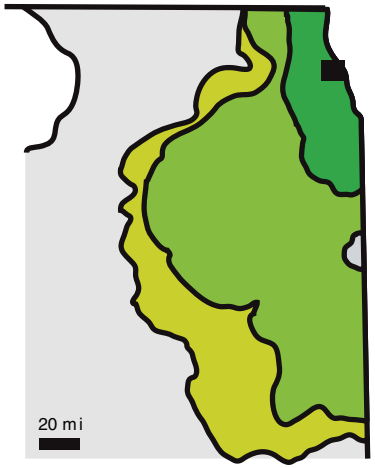
N

REGIONAL GEOLOGY



Wedron Group

- Wadsworth Formation
- Lemont Formation
- Tiskilwa Formation

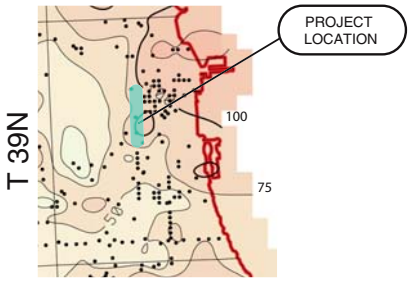
Modified after Hansel and Johnson (1996)

Legend

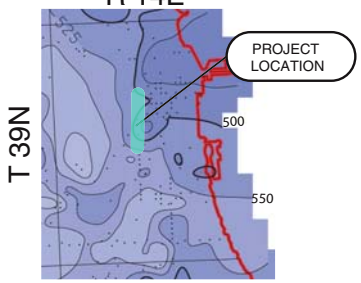
Qls — Glacial lake bottom (Covered by lacustr ine depos its)

- Contract 62A76
- Contract 62A77
- Contract 60X94

DRIFT THICKNESS

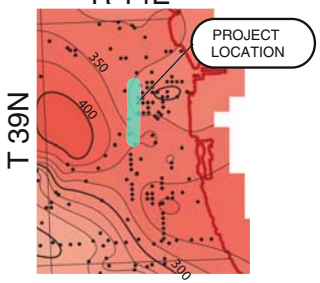


BEDROCK TOPOGRAPHY



Contours intervals are 25 feet

BEDROCK THICKNESS



Modified after Leetaru et. al. (2004)

SITE AND REGIONAL GEOLOGY: JANE BYRNE INTERCHANGE, I-90/94
CONTRACTS 62A76, 62A77, AND 60X94, COOK COUNTY, ILLINOIS

SCALE: GRAPHICAL	EXHIBIT 2	DRAWN BY: J. Rowells CHECKED BY : C. Marin

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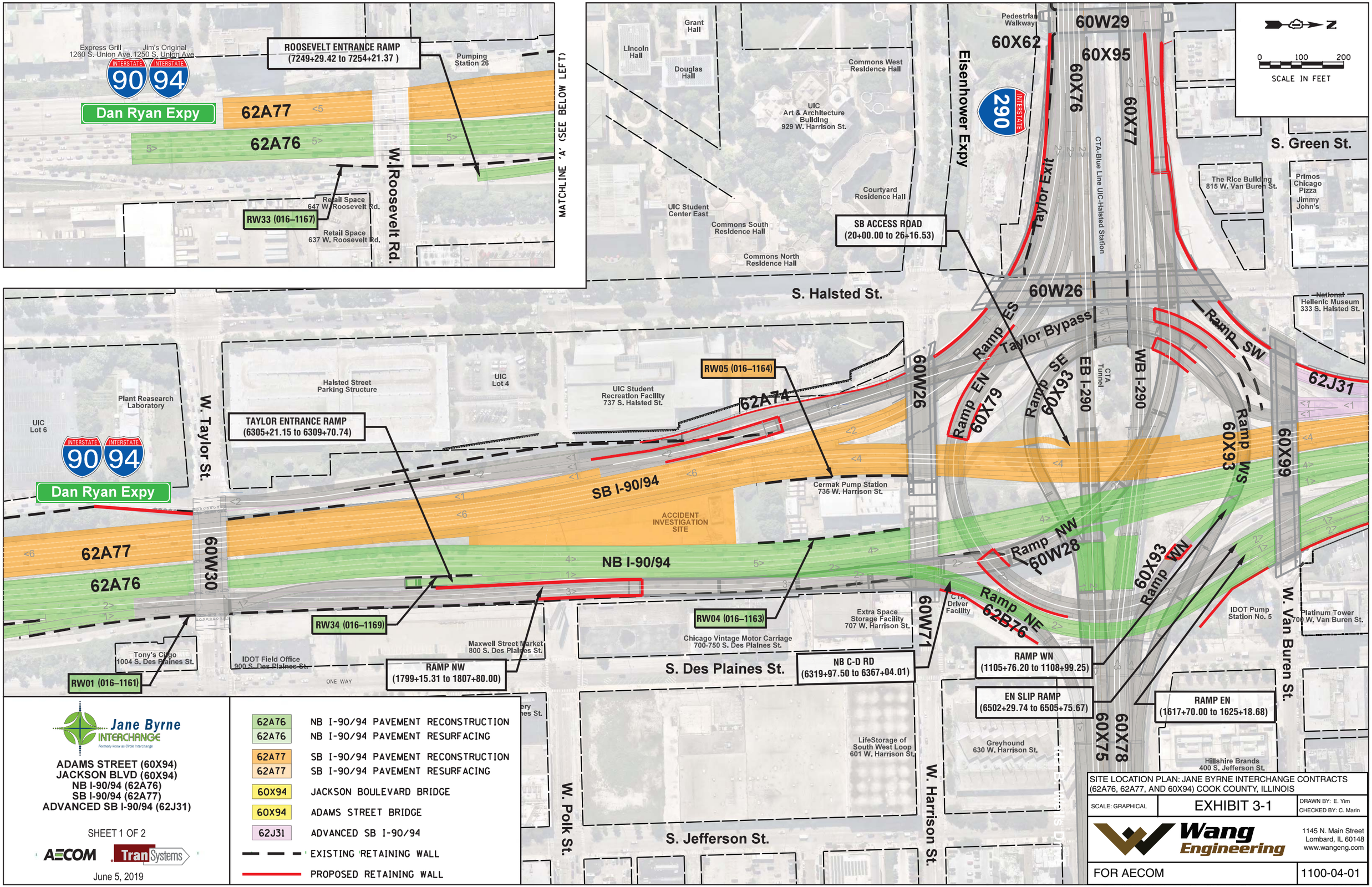

Jane Byrne INTERCHANGE
Formerly know as Circle Interchange

ADAMS STREET (60X94)
JACKSON BLVD (60X94)
NB I-90/94 (62A76)
SB I-90/94 (62A77)
ADVANCED SB I-90/94 (62J31)

SHEET 1 OF 2

AECOM TranSystems

June 5, 2019

62A76	NB I-90/94 PAVEMENT RECONSTRUCTION
62A76	NB I-90/94 PAVEMENT RESURFACING
62A77	SB I-90/94 PAVEMENT RECONSTRUCTION
62A77	SB I-90/94 PAVEMENT RESURFACING
60X94	JACKSON BOULEVARD BRIDGE
60X94	ADAMS STREET BRIDGE
62J31	ADVANCED SB I-90/94
— — —	EXISTING RETAINING WALL
———	PROPOSED RETAINING WALL

SITE LOCATION PLAN: JANE BYRNE INTERCHANGE CONTRACTS (62A76, 62A77, AND 60X94) COOK COUNTY, ILLINOIS

SCALE: GRAPHICAL | EXHIBIT 3-1 | DRAWN BY: E. Yim CHECKED BY: C. Marin

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MATCHLINE 'B' (SEE SHEET 1)

S. Peoria St.
W. Jackson Blvd.
W. Adams St.
S. Green St.
W. Washington St.
W. Randolph St.
N. Green St.
W. Lake St.
N. Halsted St.
S. Jefferson St.
W. Monroe St.
W. Madison St.
N. Des Plaines St.

ADAMS EXIT RAMP (8380+00.00 to 8388+18.06)
PAVEMENT RECONSTRUCTION
RAMP SW (1300+00.00 to 1315+00.47)
ADAMS ENTRANCE RAMP (8340+00.00 to 8346+09.15)
WASHINGTON EXIT RAMP (8680+00.00 to 8684+50.69)
RANDOLPH EXIT RAMP (8740+00.00 to 8744+73.19)
LAKE EXIT RAMP (8840+00.00 to 8849+09.73)
JACKSON ENTRANCE RAMP (8240+00.00 to 8245+05.53)
ADAMS BRIDGE (016–1701)
MADISON EXIT RAMP (8540+00.00 to 8548+86.82)

RW38 (016–1827)
RW37 (016–1826)
RW08 (016–1727)
RW36 (016–1825)
RW34 (016–1823)
RW50 (016–1189)
RW18 (016–W989)
PAVEMENT RESURFACING
RW24 (016–Z016)
RW51 (016–Z048)
RW31 (016–1820)
PAVEMENT RECONSTRUCTION
RW30 (016–1819)
RW32 (016–1821)
RW33 (016–1822)
RW52 (016–Z051)
RW19 (016–1166)
PAVEMENT RESURFACING

62J31
SB I-90/94
NB I-90/94
62A75
62A77
62A76
60X94
60X94
60X95

Greek Town
Artopolis 306 S. Halsted St.
Athena Rooftop Greek
Greek Islands 200 S. Halsted St.
Pegasus
Mariano's Fresh Market 40 S. Halsted St.
MB Financial Bank 800 W. Madison St.
WCIU-TV 26 N. Halsted St.
Chase
Whole Foods Market 1 N. Halsted St.
Skybridge Condo Assn 737 W. Washington Blvd.
Mell Cafe 301 S. Halsted St.
Greek Town Gyros
Spectrum Bar & Grill 766-768 W. Jackson Blvd
Philly's Best 769 W. Jackson Blvd.
Odyssey Loft Condo 775 W. Jackson Blvd.
Arkadia Tower 765 W. Adams St.
Walgreens 111 S. Halsted St.
Crowne Plaza Chicago Metro 733 W. Madison St.
Bank of America 105 N. Halsted St.
Haymarket Pub & Brewery 737 W. Randolph St.
Wellspring Personal Care 125 N. Halsted St.
Lake Shore Animal Shelter 723 W. Randolph St.
Holiday Grill & Bar 740 W. Randolph St.
730 W. Randolph St. Condo Association 720 W. Randolph St.
Lake & Halsted Tower 171 N. Halsted St.
Lake Street Studios 727 W. Lake St.
Raddy O'Fegan's Irish Pub & Rest. 204 N. Halsted St.
East Bank Storage 730 W. Lake St.
Illinois Lending 724 W. Washington Blvd.
Monroe Exit Ramp Previously Removed
H Mart 711 W. Jackson Blvd.
Haberdasher Square Lofts 728 W. Jackson Blvd.
Edge Lofts & Tower 210 S. Des Plaines St.
Rectory
Archdiocese of Chicago's Joseph Cardinal Bernardin Archives & Records Center 711 W. Monroe St.
Old St. Patrick's Church 700 W. Adams St.
The Frances Xavier Warde School 120 S. Des Plaines St.
Horizons for Youth 703 W. Monroe
Comed SubStation 650-660 W. Madison St.
Family Planning 659 W. Washington St.
Legat Architects, Inc. 651 W. Washington St.
R & D 659 Condo Association 659 W. Randolph St.
Alfa Romeo & FIAT of Chicago 645 W. Randolph St.
Catalyst Ranch 656 W. Randolph St.
Grace 652 W. Randolph St.
Supreme Picture Frame 650 W. Randolph St.
Mox Multisport 648 W. Randolph St.
Bellicon 661 W. Lake St.
Chempetitive Group 657 W. Lake St.
Open Books 651 W. Lake St.
Brideside Chicago 660 W. Lake St.
B Warehouse 650 W. Lake St.
Stryker Performance Solutions 641 W. Lake St.
Gamma Imaging 222 N. Des Plaines St.
Grand Stage Lighting Co 630 W. Lake St.
Catalyst 123 N. Des Plaines St.
Randolph Station Lofts 622 W. Randolph St.
Sarpino's Pizza 627 W. Lake St.
Big City CrossFit 612 W. Lake St.
FedEx Office Print & Ship Center 608 W. Lake St.
Starbucks 600 W. Lake St.
Jimmy John's 200 N. Jefferson St.
156 N. Jefferson
180 N. Jefferson Apartments
US Social Security Administration 600 W. Madison St.
Presidential Towers
Presidential Towers 555 W. Madison St.
7-Eleven 627 W. Jackson Blvd.
Lofts
Heritage Green Park

INTERSTATE 90 INTERSTATE 94
Kennedy Expy

ONE WAY

N
0 100 200
SCALE IN FEET

Jane Byrne INTERCHANGE
Formerly know as Circle Interchange

ADAMS STREET (60X94)
JACKSON BLVD (60X94)
NB I-90/94 (62A76)
SB I-90/94 (62A77)
ADVANCED SB I-90/94 (62J31)

SHEET 2 OF 2

AECOM Tran Systems

June 5, 2019

62A76	NB I-90/94 PAVEMENT RECONSTRUCTION
62A76	NB I-90/94 PAVEMENT RESURFACING
62A77	SB I-90/94 PAVEMENT RECONSTRUCTION
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60X94	ADAMS STREET BRIDGE
62J31	ADVANCED SB I-90/94
	EXISTING RETAINING WALL
	PROPOSED RETAINING WALL

SITE LOCATION PLAN: JANE BYRNE INTERCHANGE CONTRACTS (62A76, 62A77, AND 60X94) COOK COUNTY, ILLINOIS

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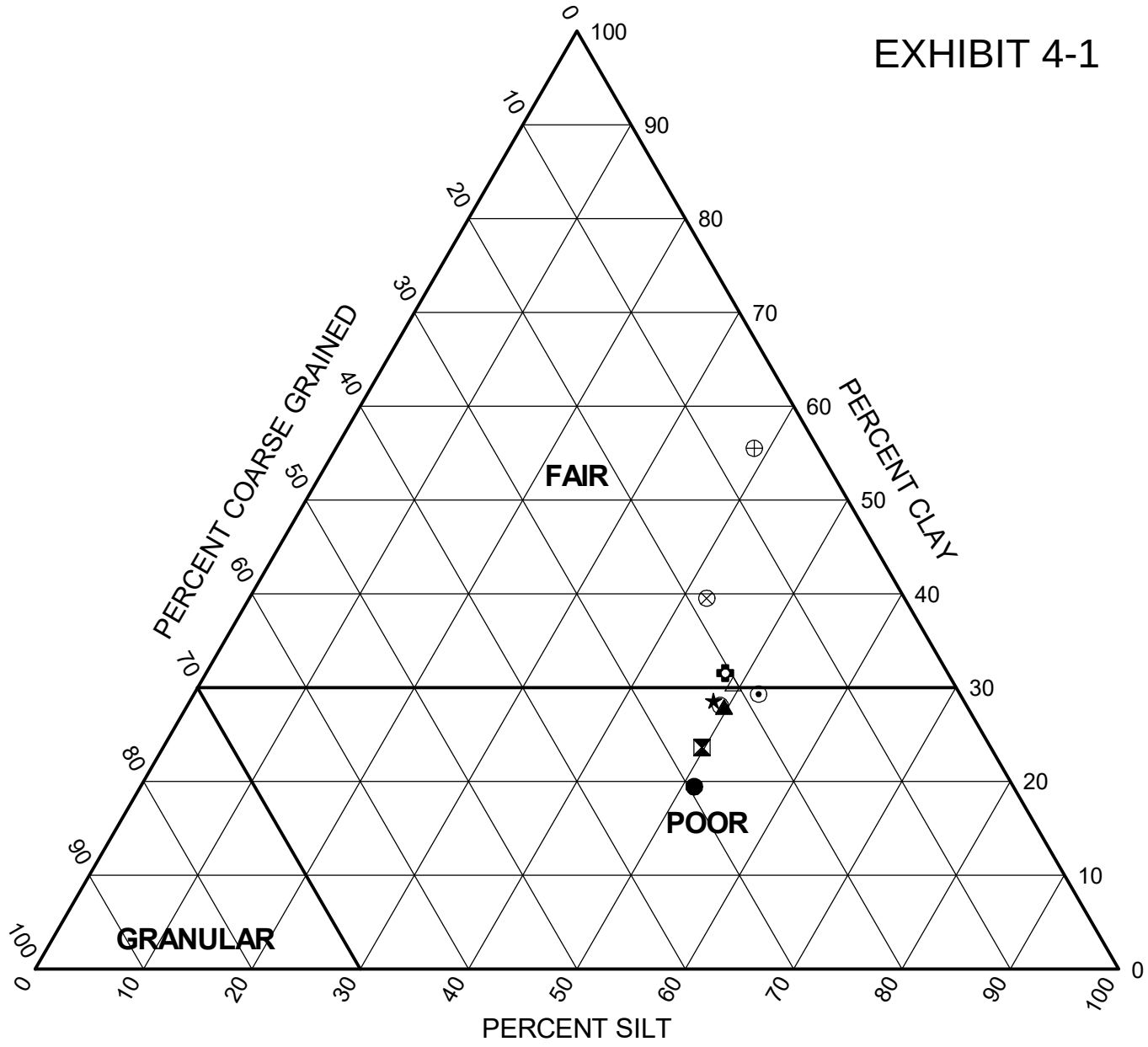

	Sample	Depth (ft)	Coarse (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	RATING
●	02-RWB-03#3	6.0	29.4	51.1	19.5	Silty Clay Loam	A-6 (9)	POOR
⧓	02-RWB-06#3	6.0	26.6	49.7	23.6	Silty Clay Loam	A-6 (7)	POOR
▲	1704-B-04#3	6.0	22.4	49.6	28.0	Silty Clay Loam	A-6 (10)	POOR
★	1705-B-05A#1	10.0	23.1	48.3	28.6	Silty Clay Loam	A-6 (9)	POOR
⊙	1710-B-03#2	3.5	18.6	52.1	29.3	Silty Clay Loam	A-6 (10)	POOR
✿	1710-B-04#5	11.0	20.5	47.9	31.6	Clay	A-6 (11)	FAIR
○	30-RWB-03#1	13.5	22.7	49.2	28.1	Silty Clay Loam	A-6 (10)	POOR
△	32-RWB-03B#2	18.5	20.4	49.2	30.4	Silty Clay	A-6 (12)	FAIR
⊗	33-RWB-02#9	21.0	18.3	42.2	39.5	Clay	A-6 (17)	FAIR
⊕	BFB-02#2	3.5	5.9	38.6	55.5	Clay	A-7-6 (24)	FAIR

WEI SINCE 1982

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Subgrade Support Rating Chart

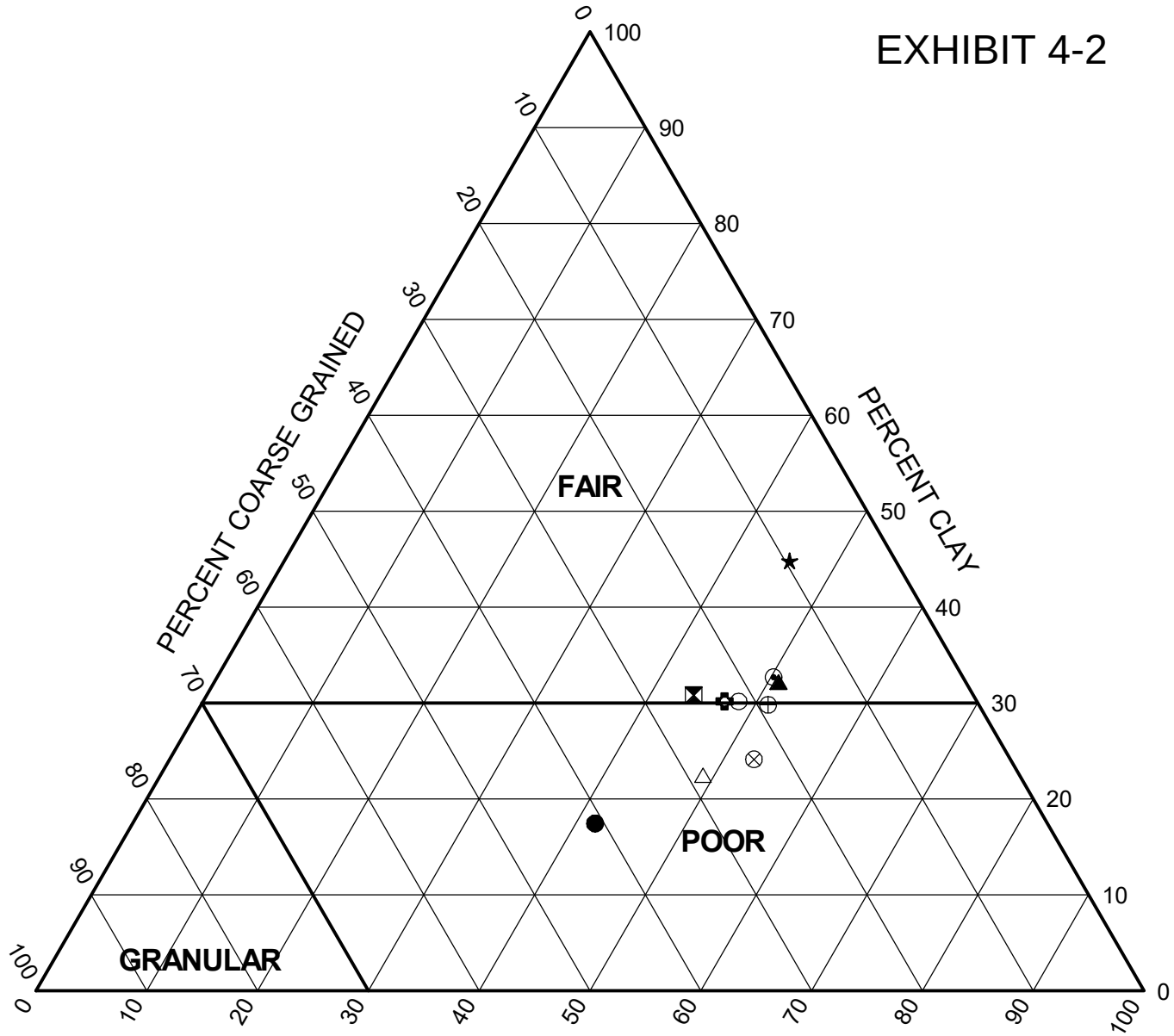
Project: Jane Byrne Interchange

Location: Section 17, T39N, R14E of 3rd PM

Number: 1100-04-01

WEI SSR 11000401.GPJ WANGENG.GDT 7/25/19

EXHIBIT 4-2



	Sample	Depth (ft)	Coarse (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	RATING
●	BFB-04#2	3.5	40.8	41.7	17.5	Clay Loam	A-4 (2)	POOR
⊠	NB90-SGB-03#2	3.5	25.2	43.9	30.8	Clay	A-7-6 (15)	FAIR
▲	NB90-SGB-07#2	3.5	16.9	50.9	32.2	Silty Clay	A-6 (12)	FAIR
★	NB90-SGB-10#3	5.0	9.6	45.6	44.8	Clay	A-7-6 (22)	FAIR
⊕	NB90-SGB-13#2	3.0	17.1	50.2	32.7	Silty Clay	A-6 (13)	FAIR
✿	NB90-SGB-16B#2	3.0	22.8	47.1	30.2	Clay	A-6 (12)	FAIR
◍	NB90-SGB-21#2	3.0	21.5	48.3	30.2	Clay	A-6 (12)	FAIR
△	NB90-SGB-23#2	3.0	28.6	49.0	22.5	Silty Clay Loam	A-6 (9)	POOR
⊗	SB90-SGB-02#2	3.0	23.1	52.7	24.1	Silty Clay Loam	A-6 (9)	POOR
⊕	SB90-SGB-06#2	3.5	19.0	51.2	29.8	Silty Clay	A-6 (11)	POOR

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Subgrade Support Rating Chart

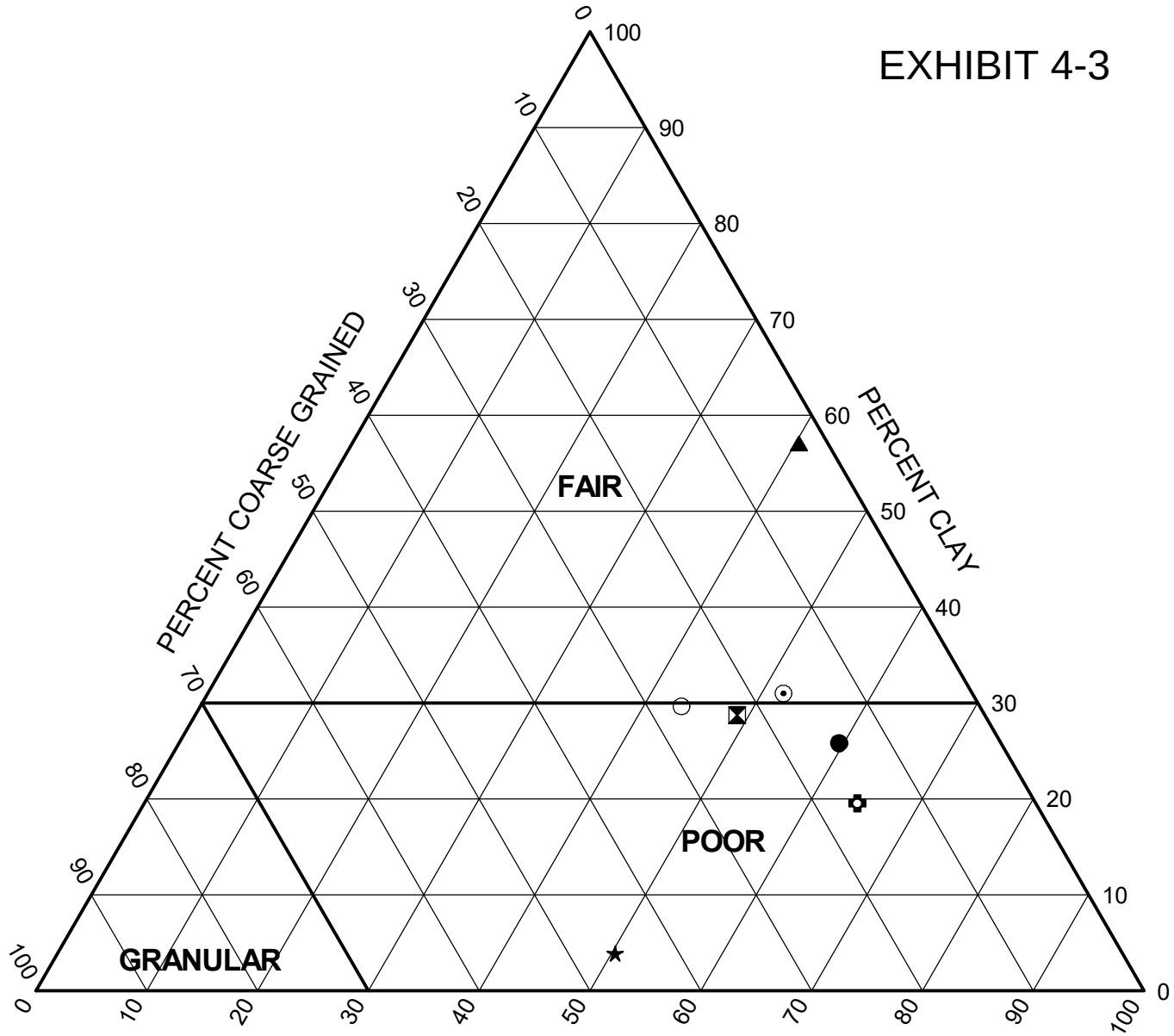
Project: Jane Byrne Interchange

Location: Section 17, T39N, R14E of 3rd PM

Number: 1100-04-01

WEI SSR 11000401.GPJ WANGENG.GDT 7/25/19

EXHIBIT 4-3



	Sample	Depth (ft)	Coarse (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	RATING
●	SB90-SGB-10#2	3.0	14.6	59.6	25.8	Silty Clay Loam	A-6 (11)	POOR
⊠	SB90-SGB-15#2	3.0	22.4	48.9	28.7	Silty Clay Loam	A-6 (9)	POOR
▲	SB90-SGB-18#3	5.0	2.6	40.3	57.1	Clay	A-7-6 (33)	FAIR
★	SB90-SGB-20#	3.0	45.8	50.3	3.9	Silty Loam	A-4 (0)	POOR
⊙	SB90-SGB-22#1	1.0	17.0	51.9	31.0	Silty Clay	A-6 (11)	FAIR
✿	SB90-SGB-24#2	3.5	16.1	64.3	19.6	Silty Clay Loam	A-6 (8)	POOR
○	2051-RWB-04#7	15.0	26.9	43.4	29.7	Clay	A-6 (9)	POOR

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Subgrade Support Rating Chart

Project: Jane Byrne Interchange

Location: Section 17, T39N, R14E of 3rd PM

Number: 1100-04-01

WEI SSR 11000401.GPJ WANGENG.GDT 7/25/19

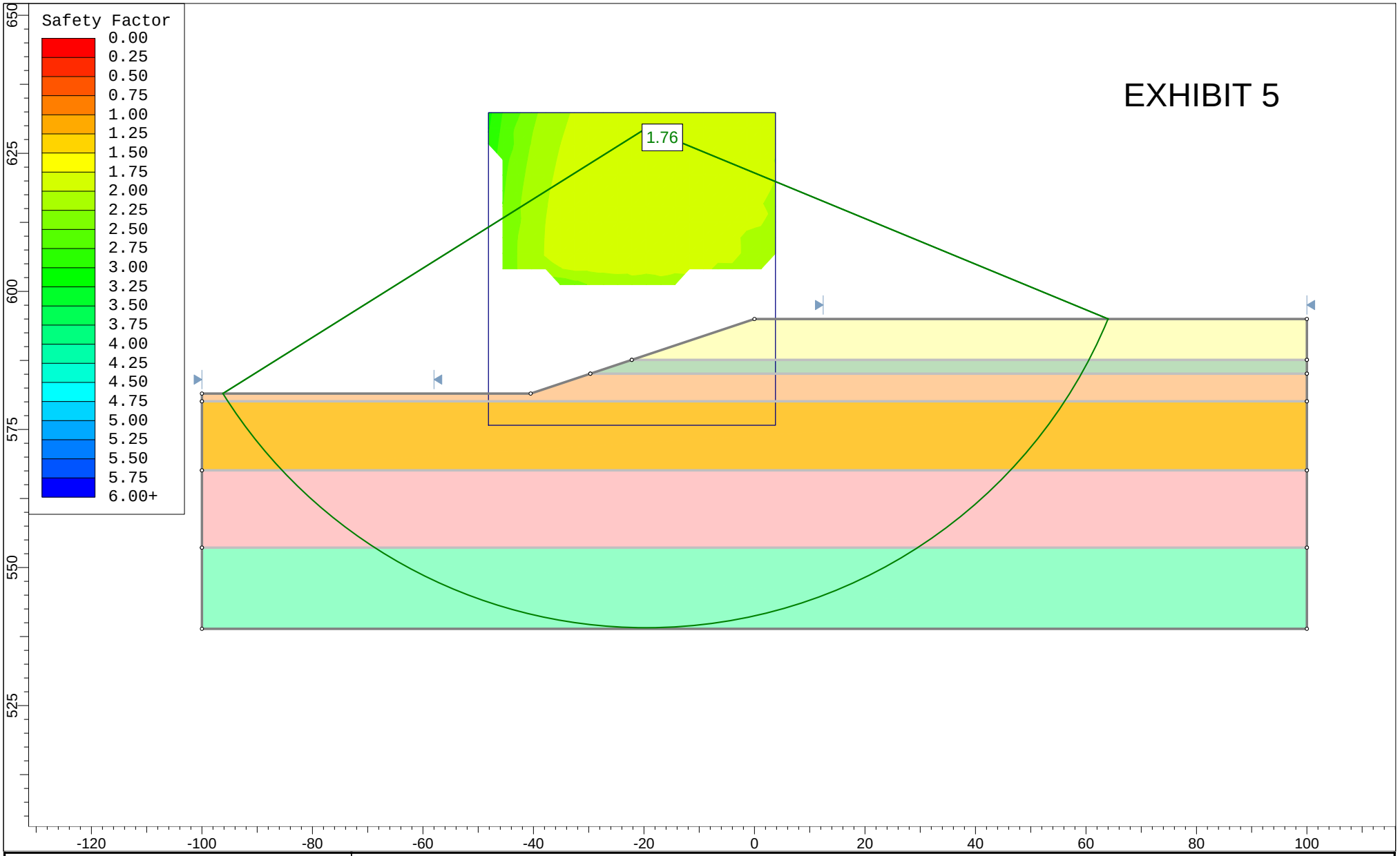

EXHIBIT 5

rocscience	Project: SLIDE - An Interactive Slope Stability Program		
	Analysis Description:		
	Drawn By:	Scale: 1:288	Company:
	Date: 2/8/2018, 10:31:08 AM		File Name: C_Wang_RXG_11000401_Sta6324+00_Undrained_CDRoad_20180208.s

SLIDEINTERPRET 6.029

APPENDIX A

Boring Logs

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BORING LOG 02-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.38 ft
North: 1896389.09 ft
East: 1171849.55 ft
Station: 1813+59.21
Offset: 2.8723 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.2	13.75-inch CONCRETE --PAVEMENT--						
	573.9	4-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown CRUSHED STONE --FILL--			1	20 17 11	NP	7
	570.9				2	2 2 3	NA	11
		Very soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel	5					
					3	0 2 2	0.49 B	20
		--In-Situ Vane Shear, 7 feet-- --$S_{u\ undis}$ = 932.4 psf-- --$S_{u\ remold}$ = 569.8 psf-- --Sensitivity = 1.63--			4	1 1 2	0.25 B	19
		--L_L(%)=33, P_L(%)=15--	10					
		--%Gravel=5.5-- --%Sand=17.0-- --%Silt=50.1-- --%Clay=27.4-- --A-6(12)--			1			
		--L_L(%)=33, P_L(%)=15-- --%Gravel=5.5-- --%Sand=17.0-- --%Silt=50.1-- --%Clay=27.4-- --A-6 (12)--			5	0 0 0	0.16 B	26
		--In-Situ Vane Shear, 13.0 feet--	15		2			
		--$S_{u\ undis}$ = 595.7 psf-- --$S_{u\ remold}$ = 440.3 psf-- --Sensitivity = 1.35--			6	0 0 1	0.16 B	23
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 802.9 psf-- --$S_{u\ remold}$ = 647.5 psf-- --Sensitivity = 1.24--			3			
		--In-Situ Vane Shear, 18.0 feet-- --$S_{u\ undis}$ = 880.6 psf-- --$S_{u\ remold}$ = 595.7 psf-- --Sensitivity = 1.47--			7	0 0 1	0.25 B	26
			20		4			
					8	0 3 2	0.16 B	26
		--In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 466.2 psf-- --$S_{u\ remold}$ = 388.5 psf-- --Sensitivity = 1.20--			5			
					9	0 0 1	0.25 B	27
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 725.2 psf-- --$S_{u\ remold}$ = 569.8 psf-- --Sensitivity = 1.27--			6			
			25		10	0 0 0	0.25 B	26
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 854.7 psf-- --$S_{u\ remold}$ = 699.3 psf-- --Sensitivity = 1.22--			7			
					11	0 0 3	0.25 B	27
		--In-Situ Vane Shear, 28.0 feet-- --$S_{u\ undis}$ = 906.5 psf-- --$S_{u\ remold}$ = 725.2 psf-- --Sensitivity = 1.25--			8			
			30		12	0 2 2	0.57 B	26
		--In-Situ Vane Shear, 30.5 feet-- --$S_{u\ undis}$ = 1217.3 psf-- --$S_{u\ remold}$ = 906.5 psf-- --Sensitivity = 1.34--			9			
	543.6	Gray SILT						
	541.1	Very stiff, gray CLAY to SILTY CLAY, trace gravel	35		13	7 10 8	3.75 P	23
			40		14	5 10 14	3.28 B	21

GENERAL NOTES

Begin Drilling: **06-03-2013** Complete Drilling: **06-05-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

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BORING LOG 02-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.38 ft
North: 1896389.09 ft
East: 1171849.55 ft
Station: 1813+59.21
Offset: 2.8723 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	533.6	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel and sand lenses	45		15	7 13 16	5.74 B	17
			50		16	11 15 15	3.69 B	17
	523.6	Medium dense to dense, gray SILTY LOAM, trace gravel	55		17	16 21 23	NP	20
		--%Gravel=1.5-- --%Sand=30.0-- --%Silt=64.4-- --%Clay=4.0--	60		18	15 22 17	NP	16
		--A-4 (0)--						
	510.4	--Trace SAND and CLAY lenses--	65		19	5 7 5	NP	20
		Boring terminated at 65.00 ft	70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **06-03-2013** Complete Drilling: **06-05-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.05 ft
North: 1896502.39 ft
East: 1171844.72 ft
Station: 1814+72.61
Offset: 2.2452 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.9	13.75-inch thick CONCRETE --PAVEMENT--						
	575.6	4.25-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown CRUSHED STONE			1	16 16 7	NP	7
	573.8	--FILL--						
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	1 2 2	0.90 B	19
					3	1 2 3	0.57 B	22
			10		4	1 2 3	0.57 B	22
					5	1 2 2	0.33 B	25
			15		6	0 1 2	0.33 B	26
					7	0 1 1	0.25 B	26
		--L_L(%)=36, P_L(%)=16-- --%Gravel=4.3-- --%Sand=14.7--	20		8	0 1 1	0.16 B	26
		--%Silt=48.9-- --%Clay=32.1-- --A-6 (15)--	25		9	1 1 1	0.25 B	26
					10	0 2 1	0.25 B	26
					11	1 2 2	0.25 B	26
			30		12	1 2 2	0.41 B	26
	542.3	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel	35		13	3 2 7	0.49 B	25
			40		14	7 11 15	4.50 P	14

GENERAL NOTES

Begin Drilling: **06-04-2013** Complete Drilling: **06-05-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.05 ft
North: 1896502.39 ft
East: 1171844.72 ft
Station: 1814+72.61
Offset: 2.2452 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					15	50/4"	> 4.50 P	16
			45					
		--HARD DRILLING (46' to 46.5')-- *--Possible Cobbles--*						
	530.3	Very stiff to hard, gray SILTY CLAY. trace gravel						
			50		16	7 10 16	4.51 B	20
			55		17	6 11 18	3.28 B	22
	518.2	Medium dense to dense, gray SILTY LOAM						
			60		18	9 15 9	NP	17

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	512.1	Boring terminated at 65.00 ft	65		19	15 18 16	NP	20
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **06-04-2013** Complete Drilling **06-05-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.12 ft
North: 1896571.20 ft
East: 1171842.41 ft
Station: 1815+41.45
Offset: 1.2416 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.0	13.25-inch thick CONCRETE --PAVEMENT--						
	576.6	4.25-inch thick ASPHALT --PAVEMENT-						
		Dense, brown CRUSHED STONE --BASE COURSE--			1	23 19 13	NP	8
	574.6	Medium stiff, gray SILTY CLAY LOAM, trace gravel			2	2 2 2	0.82 B	20
		--L_L(%)=30, P_L(%)=14-- --%Gravel=3.1-- --%Sand=26.3-- --%Silt=51.1-- --%Clay=19.5-- --A-6 (9)--	5		3	1 3 3	0.90 B	29
		--In-Situ Vane Shear, 8.0 feet-- --$S_{u\ undis}$ = 1447.6 psf-- --$S_{u\ remold}$ = 1034.0 psf-- --Sensitivity = 1.40--			1			
			10		4	1 2 3	0.74 B	22
	567.6	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			2			
		--In-Situ Vane Shear, 10.5 feet-- --$S_{u\ undis}$ = 1344.2 psf-- --$S_{u\ remold}$ = 930.6 psf-- --Sensitivity = 1.44--			5	0 1 2	0.33 B	25
					3			
		--In-Situ Vane Shear, 13.0 feet-- --$S_{u\ undis}$ = 1036.0 psf-- --$S_{u\ remold}$ = 673.4 psf-- --Sensitivity = 1.53--	15		6	0 1 1	0.25 B	24
					4			
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 958.3 psf-- --$S_{u\ remold}$ = 647.5 psf-- --Sensitivity = 1.48--			7	0 1 2	0.33 B	26
					5			
		--In-Situ Vane Shear, 18.0 feet--	20		8	0 1 2	0.25 P	26

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--$S_{u\ undis}$ = 725.2 psf-- --$S_{u\ remold}$ = 621.6 psf-- --Sensitivity = 1.16--			9	0 1 1	0.16 B	26
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 984.2 psf-- --$S_{u\ remold}$ = 647.5 psf-- --Sensitivity = 1.52--			6			
			25		10	0 1 1	0.25 B	27
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 828.8 psf-- --$S_{u\ remold}$ = 673.4 psf-- --Sensitivity = 1.23--			7			
					11	1 1 2	0.41 B	27
		--In-Situ Vane Shear, 28.0 feet-- --$S_{u\ undis}$ = 751.1 psf-- --$S_{u\ remold}$ = 647.5 psf-- --Sensitivity = 1.16--			8			
			30		12	1 2 1	0.25 B	27
					9			
		--In-Situ Vane Shear, 30.5 feet-- --$S_{u\ undis}$ = 1191.4 psf-- --$S_{u\ remold}$ = 880.6 psf-- --Sensitivity = 1.35--						
			35		13	1 3 5	0.41 B	27
	541.4	Medium dense to dense, gray SILT, trace gravel						
					14	8 12 14	NA	
			40					

GENERAL NOTES

Begin Drilling: **06-06-2013** Complete Drilling: **06-09-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

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BORING LOG 02-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.12 ft
North: 1896571.20 ft
East: 1171842.41 ft
Station: 1815+41.45
Offset: 1.2416 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Gravel=4.4-- --%Sand=10.2-- --%Silt=80.9-- --%Clay=4.5-- --A-4 (0)--	45		15	12 23 24	NP	19
	531.4	Hard, gray SILTY CLAY LOAM, trace gravel						
			50		16	7 15 23	5.74 B	15
	524.1	Very dense, gray SILTY LOAM, trace gravel	55		17	11 36 29	NP	18
	521.4	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			60		18	4 7 12	2.54 B	18
		--L_L(%)=37, P_L(%)=14-- --%Gravel=1.1-- --%Sand=11.1-- --%Silt=51.8-- --%Clay=36.1-- --A-6 (19)--	65		19	3 3 5	1.23 B	25
		--Trace SAND and SILT lenses--	70		20	5 6 7	1.15 B	25
	506.4	Medium dense, gray SILTY LOAM						
			75		21	4 5 6	NP	26
	503.1	Boring terminated at 75.00 ft						
			80					

GENERAL NOTES

Begin Drilling: **06-06-2013** Complete Drilling: **06-09-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

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BORING LOG 02-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.37 ft
North: 1896646.03 ft
East: 1171838.48 ft
Station: 1816+16.38
Offset: 1.5665 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.3	13.5-inch thick CONCRETE --PAVEMENT--						
	577.9	4-inch thick ASPHALT --PAVEMENT--						
		Dense, brown CRUSHED STONE			1	15 17 23	NP	7
	576.4	--FILL--						
		Stiff, gray SILTY CLAY LOAM, trace gravel	5		2	4 3 5	1.07 B	22
	573.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 3	0.33 B	21
			10		4	2 2 2	0.57 B	22
					5	1 1 1	0.25 B	23
			15		6	0 2 1	0.25 B	25
					7	0 0 2	0.25 B	28
			20		8	0 0 1	0.25 B	24
			25		9	0 0 2	0.16 B	27
					10	0 0 2	0.25 B	27
			30		11	0 2 2	0.33 B	26
					12	0 0 2	0.41 B	26
	542.6	Stiff to very stiff, gray SILTY CLAY, trace gravel	35		13	1 1 2	< 0.25 P	27
			40		14	3 4 8	1.31 B	19

GENERAL NOTES

Begin Drilling: **06-04-2013** Complete Drilling: **06-04-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 02-RWB-04

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.37 ft
North: 1896646.03 ft
East: 1171838.48 ft
Station: 1816+16.38
Offset: 1.5665 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	532.6	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel					
45				15	5 10 13	3.36 B	23
50				16	12 15 27	9.84 B	13
	527.6	Very stiff, gray SILTY CLAY, trace gravel					
		--L_L(%)=31, P_L(%)=15-- --%Gravel=1.0-- --%Sand=7.8-- --%Silt=58.9-- --%Clay=32.3-- --A-6 (13)--					
55				17	12 18 21	3.94 B	22
	522.6	Hard, gray SILTY LOAM, trace gravel					
60				18	12 24 27	6.72 B	13
	517.6	Medium dense, gray SANDY LOAM					
65				19	7 11 15	NP	23
	512.6	Hard, gray SILTY LOAM, trace gravel					
	510.6	Boring terminated at 68.75 ft		20	50/3"	> 4.50 P	14
70							
75							
80							

GENERAL NOTES

Begin Drilling **06-04-2013** Complete Drilling **06-04-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 02-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.79 ft
North: 1896721.51 ft
East: 1171834.02 ft
Station: 1816+91.99
Offset: 2.3899 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.7	13.5-inch thick CONCRETE --PAVEMENT--						
	579.3	4-inch thick ASPHALT --PAVEMENT--			1	20 15 9	NP	2
	577.8	Medium dense, brown CRUSHED STONE --FILL--						
		Very stiff, gray SILTY CLAY LOAM, trace gravel	5		2	3 4 4	2.38 B	17
	575.3	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	3 2 2	0.49 B	17
		--L_L(%)=34, P_L(%)=15-- --%Gravel=4.2-- --%Sand=17.7-- --%Silt=47.9-- --%Clay=30.2-- --A-6 (13)--	10		4	1 2 3	0.41 B	16
		--In-Situ Vane Shear, 10.5 feet-- --$S_{u\ undis}$ = 1217.3 psf-- --$S_{u\ remold}$ = 932.4 psf-- --Sensitivity = 1.30--			1 5	1 2 2	0.41 B	22
		--In-Situ Vane Shear, 13.0 feet-- --$S_{u\ undis}$ = 1036.0 psf-- --$S_{u\ remold}$ = 828.8 psf-- --Sensitivity =1.25--	15		2 6	2 2 3	0.33 B	25
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 1061.9 psf-- --$S_{u\ remold}$ = 700.0 psf-- --Sensitivity = 1.46--			3 7	1 1 2	0.33 B	25
		--In-Situ Vane Shear, 18.0 feet-- --$S_{u\ undis}$ = 751.1 psf-- --$S_{u\ remold}$ = 543.9 psf-- --Sensitivity = 1.38--	20		4 8	0 1 2	0.16 B	25
		--In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 802.9 psf-- --$S_{u\ remold}$ = 595.7 psf-- --Sensitivity = 1.34--			5 9	0 2 1	0.25 B	26
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 1061.9 psf-- --$S_{u\ remold}$ = 699.3 psf-- --Sensitivity = 1.51 --	25		6 10	1 2 2	0.16 B	25
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 854.7 psf-- --$S_{u\ remold}$ = 595.7 psf-- --Sensitivity = 1.43--			7 11	1 2 2	0.33 B	25
		--In-Situ Vane Shear, 28.0 feet-- --$S_{u\ undis}$ = 984.2 psf-- --$S_{u\ remold}$ = 725.2 psf-- --Sensitivity = 1.35--	30		8 12	1 2 1	0.16 B	26
		--In-Situ Vane Shear, 30.5 feet-- --$S_{u\ undis}$ = 958.3 psf-- --$S_{u\ remold}$ = 751.1 psf-- --Sensitivity = 1.27--			9 13	2 2 2	0.49 B	26
		--In-Situ Vane Shear, 35.5 feet-- --$S_{u\ undis}$ = 1269.1 psf-- --$S_{u\ remold}$ = 984.2 psf-- --Sensitivity = 1.28--	35		10 14	1 2 10	<0.25 P	35
			40					

GENERAL NOTES

Begin Drilling: **06-09-2013** Complete Drilling: **06-11-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&T** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 7.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 02-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.79 ft
North: 1896721.51 ft
East: 1171834.02 ft
Station: 1816+91.99
Offset: 2.3899 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.0	Very stiff to hard, gray SILTY LOAM, trace gravel						
			45		15	9 10 11	4.51 S	13
		--L_L(%)=26, P_L(%)=13-- --%Gravel=5.0-- --%Sand=26.3-- --%Silt=55.4-- --%Clay=13.3-- --A-6 (6)--						
			50		16	13 14 23	6.31 S	12
		--Dense, gray SILT--						
			55		17	17 21 27	NP	21
			60		18	11 14 16	2.79 S	12
	519.0	Medium dense, gray fine SANDY LOAM, trace silt lenses						
		--%Gravel=0.1-- --%Sand=75.9-- --%Silt=23.0-- --%Clay=1.0-- --A-2-4 (0)--	65		19	10 11 10	NP	20
	514.0	Hard, gray SILTY LOAM, trace gravel						
			70		20	14 18 29	8.45 S	13
			75		21	50/5"	> 4.50 P	9
	504.0	Hard, gray CLAY						
			80		22	13 18 12	5.00 S	22

GENERAL NOTES

Begin Drilling: **06-09-2013** Complete Drilling: **06-11-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&T** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 7.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 02-RWB-05

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.79 ft
North: 1896721.51 ft
East: 1171834.02 ft
Station: 1816+91.99
Offset: 2.3899 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	499.0							
		Hard, gray SILTY LOAM, trace gravel						
					23	50/5	> 4.50 P	16
			85					
		--HARD DRILLING (at 88')-- --Possible Cobbles--						
	492.8							
		Boring terminated at 88.00 ft						
			90					
			95					
			100					

GENERAL NOTES

Begin Drilling **06-09-2013** Complete Drilling **06-11-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" HSA to 7.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 02-RWB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.64 ft
North: 1896796.97 ft
East: 1171829.83 ft
Station: 1817+67.50
Offset: 3.6732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.4	13.75-inch thick CONCRETE --PAVEMENT--						
	580.1	4-inch thick ASPHALT --PAVEMENT--						
	579.6	6-inch thick CRUSHED STONE --BASE COURSE--			1	11 20 27	NP	5
	578.4	Very stiff (2.75P), gray and brown CLAY LOAM, trace gravel --FILL--			2	1 4 5	1.80 B	18
		Medium stiff to stiff, gray and brown SILTY CLAY LOAM, trace gavel	5					
		--L_L(%)=26, P_L(%)=13-- --%Gravel=4.2-- --%Sand=22.5-- --%Silt=49.7-- --%Clay=23.6-- --A-6 (7)--			3	3 3 4	1.23 B	17
			10		4	2 2 3	0.90 B	23
					5	2 2 3	1.07 B	25
	568.6	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			6	1 2 2	0.41 B	24
			15		7	1 1 2	0.33 B	25
			20		8	1 1 2	0.41 B	26
			25		9	1 1 2	0.41 B	26
					10	1 2 3	< 0.25 P	27
		--L_L(%)=36, P_L(%)=16-- --%Gravel=2.8-- --%Sand=16.1-- --%Silt=51.5-- --%Clay=29.7-- --A-6 (15)--			11	1 1 2	0.25 B	25
			30		12	0 1 2	0.16 B	26
			35		13	0 2 2	0.33 B	25
			40		14	1 2 3	0.41 B	28

GENERAL NOTES

Begin Drilling: **06-16-2013** Complete Drilling: **06-17-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 02-RWB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.64 ft
North: 1896796.97 ft
East: 1171829.83 ft
Station: 1817+67.50
Offset: 3.6732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.9	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	45		15	13 13 13	1.23 B	16
			50		16	14 16 20	3.12 B	15
	527.1	Gray SANDY GRAVEL	55		17	17 21 48	3.44 B	11
	524.9	Gray SILT						
	522.6	Hard, gray SILTY CLAY, trace gravel	60		18	20 26 23	6.15 B	20
	519.9	Medium dense, gray GRAVELLY SANDY LOAM --%Gravel=35.8-- --%Sand=43.9-- --%Silt=17.7-- --%Clay=2.6-- --A-1-b (0)--	65		19	14 15 14	NP	13
	512.6	Hard (4.5P), gray SILTY CLAY LOAM	70		20	12 13 20	NP	11
	508.0							
	507.5	Gray SANDY GRAVEL Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	75		21	17 50/5	4.10 B	10
			80		22	21 20 28	6.56 B	20

GENERAL NOTES

Begin Drilling: **06-16-2013** Complete Drilling: **06-17-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 02-RWB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.64 ft
North: 1896796.97 ft
East: 1171829.83 ft
Station: 1817+67.50
Offset: 3.6732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=40, P_L(%)=15--						
		--%Gravel=4.2--						
		--%Sand=7.2--						
		--%Silt=48.6--						
		--%Clay=40.0--						
		--A-6 (22)--	85		23	13 22 50/5	8.61 B	10
		--HARD DRILLING (at 86')--						
		--Possible Cobbles--						
			90		24	30 36 50/5	> 4.50 P	12
	490.6							
		--HARD DRILLING--						
	489.6	--WEATHERED BEDROCK--						
		Strong, excellent rock quality, light gray, fresh, joint breaks with little to no infill, slightly vuggy DOLOSTONE				CORE		
		--Run 1-RECOVERY=100%--	95					
		--RQD=95%--			1		NP	
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Run 2-RECOVERY=100%--				CORE		
		--RQD=97%--	105					
					2		NP	
			110					
	469.6	Boring terminated at 112.00 ft						
			115					
			120					

GENERAL NOTES

Begin Drilling: **06-16-2013** Complete Drilling: **06-17-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 02-ST-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.65 ft
North: 1896728.30 ft
East: 1171563.01 ft
Station: 1817+67.51
Offset: 2.7024 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.1	14-inch thick CONCRETE over 4-inch thick ASPHALT --PAVEMENT--						
		--Drilled without sampling--	5					
	571.6	Stiff, gray SILTY CLAY LOAM, trace gravel	10		1	PUSH	1.00 P	
		--Drilled without sampling--	15					
	561.6	Medium stiff, gray SILTY CLAY to SILTY CLAY LOAM --L_L(%)=35, P_L(%)=17-- --%Gravel=3.2-- --%Sand=16.6-- --%Silt=51.4-- --%Clay=28.8--	20		2	PUSH	0.50 P	26
		--A-6 (13)--	25					
		--Drilled without sampling--	30					
	546.6	Medium stiff, gray CLAY to SILTY CLAY --L_L(%)=37, P_L(%)=17-- --%Gravel=5.6-- --%Sand=12.7-- --%Silt=46.4-- --%Clay=35.3-- --A-6 (15)--	35		3	PUSH	0.50 P	25
		Boring terminated at 35.00 ft	40					

GENERAL NOTES

Begin Drilling: **07-25-2013** Complete Drilling: **07-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **CLM**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **NA**
At Completion of Drilling: **NA**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 0461-HA-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.66 ft
North: 1897981.87 ft
East: 1171951.70 ft
Station: 5213+02.90
Offset: 36.757 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.2	6-inch thick, gray CRUSHED STONE --FILL--						
		Brown SANDY LOAM, some gravel and brick --FILL--			1	PUSH	NP	11
					2	PUSH	NP	4
	581.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	PUSH	0.75 P	22
					4	PUSH	0.25 P	24
					5	PUSH	< 0.25 P	20
	575.7		10					
		Boring terminated at 10.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2015** Complete Drilling: **10-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **B&N** Logger: **B. Wilson** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 0589-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.82 ft
North: 1899347.34 ft
East: 1171345.80 ft
Station: 8311+86.85
Offset: 16.7442 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	594.3	6-inch thick ASPHALT --PAVEMENT--						
	593.3	12-inch thick CONCRETE --PAVEMENT--						
		Medium dense, brown and black GRAVELLY SAND; dry to moist --FILL--			1	5 5 6	NP	8
			5		2	1 8 5	NP	11
					3	4 6 6	NP	11
	585.0				4	3 3 3	NP	13
		Very stiff to hard (4.0P), brown and gray SILTY CLAY LOAM, trace gravel	10		5	1 2 3	2.54 B	21
	581.8							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			6	1 2 2	0.41 B	23
			15		1	P U S H	0.50 P	22
		--In-Situ Vane Shear, 19.0 feet-- --$S_{u\ undis}$ = 958.3 psf-- --$S_{u\ remold}$ = 543.9 psf--			1			
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Sensitivity = 1.76--						
					2	P U S H	0.25 P	22
			25					
			30		3	P U S H	0.25 P	24
		--In-Situ Vane Shear, 36.5 feet-- --$S_{u\ undis}$ = 802.9 psf-- --$S_{u\ remold}$ = 284.9 psf-- --Sensitivity = 2.82--	35		2			
			40					

GENERAL NOTES

Begin Drilling: **06-22-2014** Complete Drilling: **06-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&R** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 0589-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.82 ft
North: 1899347.34 ft
East: 1171345.80 ft
Station: 8311+86.85
Offset: 16.7442 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					4	PUSH	< 0.25 P	24
			45					
		--In-Situ Vane Shear, 46.5 feet-- --$S_{u\ undis}$ = 1087.8 psf-- --$S_{u\ remold}$ = 647.5 psf-- --Sensitivity = 1.68--			3			
			50					
	542.3				5	PUSH	0.25 P	27
		Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			7	4 6 10	2.13 B	17
			55					
		--L_L(%)=28, P_L(%)=15-- --%Gravel=4.8-- --%Sand=16.4--			8	5 8 9	2.95 B	16
			60					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=55.6-- --%Clay=23.2-- --A-6 (8)--						
			65		9	8 9 12	3.94 B	15
			70		10	12 17 18	6.89 B	13
		--L_L(%)=37, P_L(%)=21-- --%Gravel=0.5-- --%Sand=1.9-- --%Silt=63.3-- --%Clay=34.3-- --A-6 (17)--	75		11	4 5 6	1.72 B	28
	518.1	Gray GRAVELLY SANDY LOAM; moist						
	515.8	Medium dense, gray LOAM; moist			12	12 10 10	NP	10
			80					

GENERAL NOTES

Begin Drilling: **06-22-2014** Complete Drilling: **06-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&R** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 0589-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.82 ft
North: 1899347.34 ft
East: 1171345.80 ft
Station: 8311+86.85
Offset: 16.7442 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.1							
		Dense, gray, fine to medium SAND; moist			13	12 16 17	NP	14
			85					
					14	13 17 20	NP	16
			90					
	504.3							
		--DIFFICULT DRILLING at 90.5 --						
		Very dense, grayish DOLOSTONE fragments						
		--WEATHERED BEDROCK--			15	50/1	NP	
		--AUGER REFUSAL--						
	501.1				16	50/2	NP	
		Boring terminated at 93.50 ft						
			95					
			100					

GENERAL NOTES

Begin Drilling: **06-22-2014** Complete Drilling: **06-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&R** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 0589-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.91 ft
North: 1899272.85 ft
East: 1171495.74 ft
Station: 6149+79.82
Offset: 21.5012 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		4-inch thick ASPHALT --PAVEMENT--						
		16-inch thick CONCRETE --PAVEMENT--						
	576.3							
	576.2	Dense, white and gray CRUSHED STONE; dry --BASE COURSE--			1	16 21 24	NP	4
	574.2	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	5		2	3 5 5 5	2.79 S	14
	572.4	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	2 1 2 3	0.41 B	23
			10		4	1 1 1 2	0.41 B	24
					5	1 2 3	0.25 P	24
			15		6	0 1 2	0.66 B	23
					7	0 0 0	0.16 B	27
			20		8	0 0 0	0.33 B	26
			25		9	0 0 0	0.41 B	26
					10	0 0 1	0.41 B	24
	552.4	Stiff, gray SILTY CLAY LOAM, trace gravel			11	2 3 3	1.56 B	25
	549.9	Soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel	30		12	0 0 2	0.66 B	25
	541.2	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel	35		13	0 1 3	0.41 B	18
		--SAND seams; wet--	40		14	5 5 6	2.38 B	22

GENERAL NOTES

Begin Drilling: **07-13-2014** Complete Drilling: **07-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **64.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: **77.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 0589-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.91 ft
North: 1899272.85 ft
East: 1171495.74 ft
Station: 6149+79.82
Offset: 21.5012 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
45				15	4 5 7	5.25 B	13
50				16	5 7 9	2.30 B	22
55				17	3 5 6	2.54 B	23
	521.2	Medium dense, gray SILTY LOAM, trace gravel; damp to moist					
60				18	3 5 5	NP	13
	513.4	Brown SANDY GRAVEL; saturated					
65				19	4 4 5	NP	13
	511.2	Dense, gray SILTY LOAM, trace gravel; moist					
70				20	12 14 22	NP	14
	506.2	Dense, gray SANDY LOAM, little gravel; wet					
75				21	17 21 21	NP	13
	501.2	Brown and gray, SANDY GRAVEL; saturated					
	498.9	Dense, gray SILTY LOAM, trace gravel; wet					
80				22	13 19 21	NP	21

GENERAL NOTES

Begin Drilling: **07-13-2014** Complete Drilling: **07-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **64.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: **77.00 ft**

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BORING LOG 0589-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.91 ft
North: 1899272.85 ft
East: 1171495.74 ft
Station: 6149+79.82
Offset: 21.5012 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	496.2							
		Brown and gray, medium and coarse SAND, little gravel; wet						
	493.9							
		Dense, gray SILTY LOAM, trace gravel	85		23	11 13 19	NP	20
	489.4							
		--DIFFICULT DRILLING at 88.5 ft-- --WEATHERED BEDROCK--	90					
	483.9							
		Strong, light gray, excellent rock mass quality, bedded fresh DOLOSTONE, 1 to 3 feet beds, 1.4 feet joints spacing, horizontal joints with none to less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity --Run 1 - RECOVERY=100%-- --RQD=98%--	95		1	CORE		
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	473.9							
		Boring terminated at 104.00 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **07-13-2014** Complete Drilling: **07-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **64.50 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: ▼ **77.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 0589-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.27 ft
North: 1899354.98 ft
East: 1171689.92 ft
Station: 8315+31.06
Offset: 15.8956 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.7	7-inch thick ASPHALT --PAVEMENT--						
	592.9	9-inch thick CONCRETE --PAVEMENT--						
		Loose to very dense, brown GRAVELLY SAND; dry to wet --FILL--			1	3 2 2	NP	5
					2	5 3 3	NP	5
			5	▽				
					3	32 44 3	NP	11
	586.3	Very stiff, gray SILTY CLAY LOAM, trace gravel			4	4 6 7	2.62 B	20
			10					
	583.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	1 2 2	0.66 B	25
					6	0 0 0	0.16 B	25
			15					
					7	1 2 1	< 0.25 P	29
					8	0 0 0	< 0.25 P	24
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	0 0 0	0.25 B	26
					10	0 0 0	NR	
			25					
					11	0 0 0	< 0.25 P	26
		--L_L(%)=34, P_L(%)=16-- --%Gravel=7.0-- --%Sand=13.9-- --%Silt=50.1-- --%Clay=29.1-- --A-6 (13)--			12	0 0 3	0.57 B	29
			30					
					13	1 2 2	< 0.25 P	28
			35					
					14	0 0 1	0.41 B	26
			40					

GENERAL NOTES

Begin Drilling: **06-19-2014** Complete Drilling: **06-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **P&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 0589-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.27 ft
North: 1899354.98 ft
East: 1171689.92 ft
Station: 8315+31.06
Offset: 15.8956 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 2	0.41 B	26
			50		16	1 2 4	0.66 B	25
			55		17	0 3 5	0.82 B	21
	537.5	Stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	60		18	3 6 11	1.89 B	23
			65		19	3 6 8	2.71 B	19
			70		20	10 14 17	4.00 P	19
	522.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	75		21	1 3 6	0.82 B	37
			80		22	7 7 11	< 0.25 P	26

GENERAL NOTES

Begin Drilling: **06-19-2014** Complete Drilling: **06-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **P&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 0589-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.27 ft
North: 1899354.98 ft
East: 1171689.92 ft
Station: 8315+31.06
Offset: 15.8956 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	512.5	Gray SILT; dry						
	510.3	Medium dense to dense, gray SAND, trace gravel; moist	85		23	8 10 12	NP	16
			90		24	14 18 26	NP	19
	502.5	Dense to very dense, gray GRAVELLY SAND; moist to saturated	95		25	13 13 20	NP	12
			100		26	19 27 35	NP	11
	490.4	Boring terminated at 103.82 ft	105					
			110					
			115					
			120		27	100/4	NP	12

GENERAL NOTES

Begin Drilling: **06-19-2014** Complete Drilling: **06-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **P&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 08-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.35 ft
North: 1899261.44 ft
East: 1171382.28 ft
Station: 1310+67.92
Offset: 1.7942 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.0	4-inch thick, brown SILTY CLAY LOAM						
		Medium dense, gray SANDY GRAVEL; damp						
		--FILL--			1	8 10 6	NP	10
	576.3	Stiff, brown SILTY CLAY, trace gravel						
			5		2	2 2 2	1.07 B	25
	573.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
					3	0 1 2	0.49 B	24
			10		4	0 2 2	1.15 B	17
					5	0 0 1	0.33 B	25
			15		6	0 0 2	0.41 B	28
					7	0 0 0	0.33 B	25
		--L_L(%)=36, P_L(%)=17-- --%Gravel=6.6-- --%Sand=13.3-- --%Silt=49.2--	20		8	0 0 1	0.33 B	27

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=30.9-- --A-6 (14)--						
					9	0 0 0	0.33 B	26
			25		10	0 0 0	NR	
					11	0 0 0	0.33 B	25
			30		12	0 0 3	0.41 B	26
	542.8	Stiff to hard, gray SILTY CLAY, trace gravel						
			35		13	0 1 2	0.74 B	24
			40		14	3 3 4	1.89 B	21

GENERAL NOTES

Begin Drilling: **07-10-2014** Complete Drilling: **07-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Mohammed** Checked by: **C. Marin**
Drilling Method: **3.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 08-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.35 ft
North: 1899261.44 ft
East: 1171382.28 ft
Station: 1310+67.92
Offset: 1.7942 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	517.6	Medium dense, gray SILT; damp	45		15	3 9 11	1.00 P	22
	514.3	Boring terminated at 65.00 ft	50		16	3 4 7	3.36 B	16
			55		17	4 9 9	4.51 B	24
			60		18	2 4 3	1.97 B	24
			65		19	29 12 6	NP	13
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
Drilling Method **3.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 08-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.14 ft
North: 1899115.44 ft
East: 1171371.20 ft
Station: 1312+13.98
Offset: 8.4733 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black LOAM, some gravel --FILL--			1	7 5 3	1.50 P	9
			5		2	10 8 5	1.50 P	9
	580.6							
		Stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			3	1 3 2	1.56 B	14
	578.1							
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	10		4	1 2 3	0.33 B	21
					5	0 0 1	0.41 B	23
		--In-Situ Vane Shear, 14 feet-- --$S_{u\ undis}$ = 984 psf-- --$S_{u\ remold}$ = 648 psf-- --Sensitivity = 1.52--	15		6			
			20		7	0 2 2	< 0.25 P	27
		--In-Situ Vane Shear, 24 feet-- --$S_{u\ undis}$ = 777 psf-- --$S_{u\ remold}$ = 518 psf-- --Sensitivity = 1.5--	25		8			
			30		9	0 0 0	0.41 B	25
		--In-Situ Vane Shear, 34 feet-- --$S_{u\ undis}$ = 1295 psf-- --$S_{u\ remold}$ = 570 psf-- --Sensitivity = 2.27--	35		10			
	549.4							
		Stiff very stiff, gray GRAVELLY SILTY CLAY LOAM --L_L(%)=32, P_L(%)=17-- --%Gravel=15.2-- --%Sand=9.0-- --%Silt=51.4--	40		11	1 2 4	1.64 B	24

GENERAL NOTES

Begin Drilling: **07-10-2014** Complete Drilling: **07-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 08-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.14 ft
North: 1899115.44 ft
East: 1171371.20 ft
Station: 1312+13.98
Offset: 8.4733 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=24.3-- --A-6 (10)--						
	539.4	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	45		12	0 1 3	0.66 B	20
			50		13	4 8 12	3.94 B	18
			55		14	4 8 11	4.35 B	15
			60		15	5 9 14	4.51 B	18
	524.4	Medium stiff, gray CLAY						
	521.1	Boring terminated at 65.00 ft	65		16	3 4 7	0.74 B	42
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-10-2014** Complete Drilling: **07-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 08-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 592.12 ft
North: 1898962.89 ft
East: 1171377.44 ft
Station: 1313+66.49
Offset: 1.3750 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.9	3-inch thick ASPHALT --PAVEMENT--						
	590.9	12-inch thick CONCRETE --PAVEMENT--						
		Dense, brown SANDY GRAVEL --BASE COURSE--			1	27 18 16	NP	6
	589.1	Medium dense, brown, fine to medium SAND, trace gravel --FILL--	5		2	7 7 5	NP	4
					3	4 7 8	NP	5
	583.1	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	2 1 2	0.99 B	25
					5	0 1 2	0.82 B	16
			15		6	0 0 0	0.33 B	23
					7	0 0 0	0.33 B	25
			20		8	0 0 2	0.33 B	26
			25		9	0 0 0	0.25 B	25
					10	0 0 2	< 0.25 P	23
					11	0 1 2	0.49 B	22
			30		12	0 0 3	0.66 B	25
			35		13	0 0 0	0.57 B	23
			40		14	0 0 2	0.41 B	25

GENERAL NOTES

Begin Drilling: **07-10-2014** Complete Drilling: **07-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 08-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 592.12 ft
North: 1898962.89 ft
East: 1171377.44 ft
Station: 1313+66.49
Offset: 1.3750 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 1 3	0.66 B	25
			50		16	1 2 3	0.57 B	24
	540.4	Stiff, gray SILTY CLAY, trace gravel						
			55		17	2 4 6	1.88 B	22
	535.4	Medium dense, gray SILTY LOAM, trace gravel						
			60		18	9 12 13	NP	14
	530.4	Very stiff, gray SILTY CLAY, trace gravel						
			65		19	5 8 14	3.94 B	21
	527.1	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 08-ST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.42 ft
North: 1899122.49 ft
East: 1171372.69 ft
Station: 1312+06.92
Offset: 7.0183 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.1	4-inch thick, black SILTY CLAY LOAM						
		--TOPSOIL--						
		Very stiff, brown SILTY CLAY LOAM, little gravel; damp			1	3 4 9	2.75 P	10
		--FILL--						
	581.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; moist	5		2	2 2 3	0.83 N/6	
					3	1 2 2	0.25 P	25
			10		1	PUSH	< 0.25 P	24
		--S_u =0.43 tsf (UU TXC) --w_n(%)=23			2	PUSH	< 0.25 P	24
			15		3	PUSH	< 0.25 P	25
		--S_u =0.29 tsf (UU TXC) --w_n(%)=24			4	PUSH	< 0.25 P	26
			20					
		--S_u =0.22 tsf (UU TXC) --w_n(%)=25	25		5	PUSH	< 0.25 P	24
					6	PUSH	< 0.25 P	24
					7	PUSH	0.25 P	24
		--S_u =0.43 tsf (UU TXC) --w_n(%)=24	30		8	PUSH	0.50 P	23
					9	PUSH	0.25 P	25
		--S_u =0.50 tsf (UU TXC) --w_n(%)=23	35		10	PUSH	0.50 P	23
		--C_c=0.219, OCR=1.05--	40			PU		

GENERAL NOTES

Begin Drilling: **11-03-2014** Complete Drilling: **11-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **NA**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 08-ST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.42 ft
North: 1899122.49 ft
East: 1171372.69 ft
Station: 1312+06.92
Offset: 7.0183 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
				11		S H	0.50 P	26
		--Laboratory Q_u=0.39 tsf (B), w_n(%)=21--		12		P U S H	0.25 P	25
			45					
		--Laboratory Q_u=0.19 tsf (B), w_n(%)=25--		13		P U S H	0.75 P	25
	537.9							
		Very stiff, gray SILTY CLAY LOAM, trace gravel; damp						
		--Laboratory Q_u=3.31 tsf (B), w_n(%)=19--		14		P U S H	3.25 P	19
			50					
				4		5 8 12	3.85 B	20
	532.9							
		Boring terminated at 51.50 ft						
			55					
			60					

GENERAL NOTES

Begin Drilling: **11-03-2014** Complete Drilling: **11-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **NA**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1087-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 596.41 ft
North: 1897526.93 ft
East: 1171579.56 ft
Station: 7810+80.06
Offset: 20.7735 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	595.6	10.25-inch thick CONCRETE --PAVEMENT--						
		Gray CRUSHED STONE --BASE COURSE--						
	593.7				1	PUSH	NP	
		Medium dense, brown and gray, fine SAND to SANDY LOAM, little gravel and brick fragments --FILL--			2	PUSH	NP	12
			5		3	PUSH	NP	15
					4	PUSH	NP	11
			10		5	PUSH	NP	14
					6	3 8 2	NP	22
	583.4	Medium stiff to very stiff, gray SILTY CLAY, trace gravel			7	3 4 4	3.03 B	25
			15		8	2 2 5	2.05 B	24
					9	2 3 3	0.90 B	26
			20					
	573.4	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			10	1 4 3	0.90 B	26
			25		11	2 1 3	0.67 N/6	
					12	2 2 2	0.41 B	22
			30		13	1 2 3	0.41 B	21
			35		14	0 0 0	0.25 B	26
			40		15	1 2 2	0.25 B	25

GENERAL NOTES

Begin Drilling: **03-21-2013** Complete Drilling: **03-22-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&T** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1087-B-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 596.41 ft
North: 1897526.93 ft
East: 1171579.56 ft
Station: 7810+80.06
Offset: 20.7735 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		16	0 1 3	0.41 B	27
			50		17	1 2 2	0.57 B	27
			55		18	0 2 4	0.33 B	24
	539.7	Very stiff to hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel and sand seams	60		19	7 10 11	3.69 S	14
	529.7	Medium stiff to hard, gray CLAY to SILTY CLAY, trace gravel and seams of sand	65		20	9 11 18	5.58 B	17
			70		21	8 12 17	4.67 B	21
			75		22	3 5 6	1.56 B	25
			80		23	3 4 6	0.66 B	39

GENERAL NOTES

Begin Drilling **03-21-2013** Complete Drilling **03-22-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1087-B-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 596.41 ft
North: 1897526.93 ft
East: 1171579.56 ft
Station: 7810+80.06
Offset: 20.7735 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	514.7	Very dense, gray SANDY LOAM, some gravel						
					24	16 50/3	NP	17
			85					
	509.7	Hard, gray SILTY LOAM, trace gravel						
					25	33 46 50/4	8.61 S	12
			90					
					26	19 20 50/3	7.38 S	15
			95					
					27	50/4	> 4.50 P	13
	496.4		100					
		Boring terminated at 100.00 ft						

GENERAL NOTES

Begin Drilling **03-21-2013** Complete Drilling **03-22-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1088-B-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 597.11 ft
North: 1897552.19 ft
East: 1171668.11 ft
Station: 7811+69.21
Offset: 2.2723 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	595.8	16-inch thick CONCRETE --PAVEMENT--						
	593.8	Very dense, gray CRUSHED STONE --BASE COURSE--			1	9 21 29	NP	
	591.6	Very dense, brownish gray SILTY LOAM, little gravel --FILL-- --AUGER REFUSAL--	5		2	6 15 50/3	NP	11
		Boring terminated at 5.50 ft	10					
			15					
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **02-17-2013** Complete Drilling **02-17-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" SSA to 5.5, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1088-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.09 ft
North: 1897500.54 ft
East: 1171752.80 ft
Station: 7812+52.58
Offset: 51.4678 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick CONCRETE --PAVEMENT--						
	580.8							
	580.7	2-inch thick ASPHALT --PAVEMENT--						
		Medium dense CRUSHED STONE			1	19 14 11	NP	11
	578.9	--FILL--						
		Medium stiff, gray SILTY CLAY LOAM, trace gravel	5		2	1 1 0	0.57 B	24
	576.6							
		Very soft to medium stiff, gray CLAY to SILTY CLAY			3	0 0 1	0.41 B	28
			10		4	2 2 2	0.16 B	28
					5	1 2 1	0.25 B	25
			15		6	1 1 3	0.33 B	26
					7	0 2 2	0.41 B	26
			20		8	0 1 1	0.25 B	27
			25		9	0 1 1	0.25 B	26
					10	0 0 1	0.33 B	27
		--L_L(%)=34, P_L(%)=15-- --%Gravel=2.0-- --%Sand=15.5-- --%Silt=49.7-- --%Clay=32.8-- --A-6 (14)--			11	0 0 1	0.16 B	26
			30		12	0 1 2	0.16 B	28
			35		13	0 2 2	0.57 B	28
	545.1	Stiff, gray SILTY CLAY LOAM, trace gravel						
			40		14	4 4 7	1.15 B	20

GENERAL NOTES

Begin Drilling: **03-06-2013** Complete Drilling: **03-07-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1088-B-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.09 ft
North: 1897500.54 ft
East: 1171752.80 ft
Station: 7812+52.58
Offset: 51.4678 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.1							
		Hard, gray SILTY CLAY, trace gravel						
			45	X	15	5 8 25	4.02 B	17
			50	X	16	15 22 19	4.51 B	15
			55	X	17	6 12 19	4.02 B	21
	525.1							
		Medium stiff, gray SILTY CLAY LOAM						
			60	X	18	7 6 7	0.98 B	28

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	520.1							
		Dense, gray SILTY LOAM, trace gravel						
			65	X	19	8 13 23	NP	23
	515.1							
		Gray DOLOSTONE fragments with some SILTY CLAY Run#1 : 67 to 77 feet --RECOVERY=10% --RQD=0%	70		1	CORE		
		Run#2 : 77 to 86 feet --RECOVERY=14% --RQD=5%	75			CORE		
			80					

GENERAL NOTES

Begin Drilling **03-06-2013** Complete Drilling **03-07-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1088-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.09 ft
North: 1897500.54 ft
East: 1171752.80 ft
Station: 7812+52.58
Offset: 51.4678 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					2			
			85					
		--AUGER REFUSAL--						
	492.6							
		Strong, excellent rock quality, light gray, fresh, slightly fractured, joint breaks with little to no infill, slightly vuggy DOLOSTONE	90			C O R E		
		Run#3 : 89.5 to 99.5 feet						
		--RECOVERY=100%						
		--RQD=95%						
			95		3			
	482.6							
		Boring terminated at 99.50 ft	100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **03-06-2013** Complete Drilling: **03-07-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1165-B-01A

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.51 ft
North: 1895827.58 ft
East: 1171662.31 ft
Station: 7611+03.49
Offset: 23.1545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--						
	592.4	Medium dense, white CRUSHED STONE --FILL--			1	6 11 11	NP	7
	589.5	Loose to medium dense, black and brown, fine to medium SAND, trace gravel --FILL--	5		2	4 4 6	NP	8
					3	2 2 2	NP	6
			10		4	3 4 5	NP	6
					5	2 3 2	NP	7
			15		6	3 3 3	NP	6
					7	2 3 5	NP	6
	575.5	--HARD DRILLING-- --Possible cobble size debris--	20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--AUGER REFUSAL, OBSTRUCTION at 22 feet--						
	571.5	Boring terminated at 22.00 ft	25					
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling **05-07-2013** Complete Drilling **05-07-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **P&N** Logger **D. Wind** Checked by **C. Marin**
Drilling Method **2.25" SSA to 18.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1165-B-01B

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1895767.18 ft
East: 1171637.52 ft
Station: 6246+95.15 (7610+77.12)
Offset: 102.32 RT (82.8781 RT)

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.6	6-inch thick, ASPHALT --PAVEMENT--						
	591.8	10-inch thick, CONCRETE --PAVEMENT--						
		Loose, brown GRAVELLY SAND --FILL--			1	7 3 2	NR	11
	590.1	Loose to medium dense, brown, fine SAND --FILL--	5		2	3 5 5	NP	5
					3	4 4 2	NP	7
	584.1	Stiff to very stiff, gray SILTY CLAY, trace gravel --FILL--	10		4	2 3 4	2.13 B	25
					5	3 3 4	1.50 P	22
	580.1	Very soft to medium stiff, gray SILTY CLAY, trace gravel	15		6	2 2 3	0.66 B	19
					7	1 2 2	0.57 B	20
			20		8	1 2 2	0.49 B	24

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 878.9 psf-- --$S_{u\ remold}$ = 465.3 psf-- --Sensitivity = 1.89--			1			
					9	0 1 2	0.33 B	25
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 1243.2 psf-- --$S_{u\ remold}$ = 958.3 psf-- --Sensitivity = 1.30 --			2			
			25		10	0 1 2	0.41 B	23
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 1502.2 psf-- --$S_{u\ remold}$ = 1087.8 psf-- --Sensitivity = 1.38 --			3			
					11	0 1 2	0.49 B	23
		--In-Situ Vane Shear, 28 feet-- --$S_{u\ undis}$ = 1292.5 psf-- --$S_{u\ remold}$ = 775.5 psf-- --Sensitivity = 1.67 --			4			
			30		12	0 1 2	0.33 B	25
		--In-Situ Vane Shear, 30.5 feet-- --$S_{u\ undis}$ = 1292.5 psf-- --$S_{u\ remold}$ = 827.2 psf-- --Sensitivity = 1.56 --			5			
		--L_L(%)=35, P_L(%)=15-- --%Gravel=5.8-- --%Sand=17.8-- --%Silt=46.1-- --%Clay=30.3-- --A-6 (14)--	35		13	0 1 2	0.16 B	25
					6			
		--In-Situ Vane Shear, 35.5 feet-- --$S_{u\ undis}$ = 802.9 psf-- --$S_{u\ remold}$ = 543.9 psf-- --Sensitivity = 1.48 --						
			40		14	0 0 2	0.25 B	24

GENERAL NOTES

Begin Drilling: **05-23-2013** Complete Drilling: **05-29-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1165-B-01B

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1895767.18 ft
East: 1171637.52 ft
Station: 6246+95.15 (7610+77.12)
Offset: 102.32 RT (82.8781 RT)

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 2 2	0.74 B	26
	546.4	Dense, gray SILT						
			50		16	6 16 15	NP	21
	541.4	Hard, gray CLAY to SILTY CLAY, trace gravel						
			55		17	8 10 12	6.48 B	18
			60		18	15 22 29	7.05 S	14

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=40, P_L(%)=16-- --%Gravel=1.2-- --%Sand=5.3-- --%Silt=49.0-- --%Clay=44.5-- --A-6 (23)--	65		19	7 14 21	6.07 B	20
			70		20	7 11 16	6.64 B	13
	521.4	Dense, gray SILTY LOAM, trace gravel						
			75		21	16 17 18	NP	15
	516.4	Hard, gray SILTY CLAY LOAM, trace gravel						
		--HARD DRILLING from 79.5' to	80		22	28 27 50/4"	10.25 B	13

GENERAL NOTES

Begin Drilling: **05-23-2013** Complete Drilling: **05-29-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1165-B-01B

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1895767.18 ft
East: 1171637.52 ft
Station: 6246+95.15 (7610+77.12)
Offset: 102.32 RT (82.8781 RT)

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	82.5'	--Possible cobbles--						
	511.4	Very dense, gray SILTY LOAM, trace gravel						
					23	48 50/3"	NP	12
			85					
					24	32 50/5"	6.64 S	12
			90					
		--HARD DRILLING from 93.5' to 98.5'--			25	50/5"	NP	14
		--Possible cobbles--	95					
		--HARD DRILLING from 99' to 100'--						
		--Possible cobbles--			26	50/3"	NP	14
		--AUGER REFUSAL--						
	493.1		100					
		Boring terminated at 100.00 ft						

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **05-23-2013** Complete Drilling **05-29-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1165-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.80 ft
North: 1895901.50 ft
East: 1171749.50 ft
Station: 7611+92.60
Offset: 48.4479 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick, ASPHALT --PAVEMENT--						
	573.4							
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	7 7 9	NP	15
	571.1							
		Stiff, gray SILTY CLAY, trace gravel	5		2	5 3 4	1.39 B	18
	569.3							
		Very soft to medium stiff, gray CLAY to SILTY CLAY. trace gravel			3	0 0 0	0.25 B	24
					4	0 0 1	0.08 B	25
			10					
					5	0 0 1	0.08 B	27
		--L_L(%)=36, P_L(%)=15-- --%Gravel=4.1-- --%Sand=13.8-- --%Silt=50.0-- --%Clay=32.1-- --A-6 (16)--			6	0 0 1	0.08 B	27
			15					
					7	0 0 1	0.08 B	27
					8	0 1 1	0.50 P	30
			20					
			25		9	0 1 1	0.50 P	26
					10	1 1 2	0.41 B	24
					11	3 4 3	0.75 P	23
	545.8							
		Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	30		12	3 10 9	1.80 B	19
			35		13	7 11 12	1.80 B	19
			40		14	5 8 15	4.92 B	19

GENERAL NOTES

Begin Drilling: **05-08-2013** Complete Drilling: **05-08-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **D. Wind** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **18.50 ft**
At Completion of Drilling: **18.50 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1165-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.80 ft
North: 1895901.50 ft
East: 1171749.50 ft
Station: 7611+92.60
Offset: 48.4479 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	7 11 18	5.49 B	19
			50		16	4 8 17	2.95 B	22
			55		17	12 17 20	1.64 B	22
		--L_L(%)=29, P_L(%)=14-- --%Gravel=7.2-- --%Sand=22.8--	60		18	9 13 21	8.12 B	13
		--%Silt=47.3-- --%Clay=22.7-- --A-6 (8)--	65		19	8 14 36	3.69 B	22
	508.1	Very dense, gray SILTY LOAM, little to some gravel, possible cobbles	70		20	48 50/3	4.00 P	12
		--L_L(%)=22, P_L(%)=12-- --%Gravel=8.4-- --%Sand=26.3-- --%Silt=53.9-- --%Clay=11.4-- --A-4 (3)--	75		21	19 25 38	5.00 S	10
		--HARD DRILLING-- --Possible cobbles--	80		22	17 50/5	> 4.50 P	21

GENERAL NOTES

Begin Drilling: **05-08-2013** Complete Drilling: **05-08-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **D. Wind** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **18.50 ft**
At Completion of Drilling: **18.50 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1165-B-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.80 ft
North: 1895901.50 ft
East: 1171749.50 ft
Station: 7611+92.60
Offset: 48.4479 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	32 50/2	> 4.50 P	14
	488.8	Strong, good rock quality, grayish white, fresh, slightly to moderately fractured, joint breaks with little to no infill, highly vuggy DOLOSTONE Run#1: 86to 96 feet --RECOVERY=100%-- --RQD=70%--	90		1	CORE		
	478.8	Boring terminated at 96.00 ft	95 100					

GENERAL NOTES

Begin Drilling **05-08-2013** Complete Drilling **05-08-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **P&N** Logger **D. Wind** Checked by **C. Marin**
Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **18.50 ft**
At Completion of Drilling ▼ **18.50 ft**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 14-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.85 ft
North: 1897238.90 ft
East: 1171475.76 ft
Station: 1229+27.47
Offset: 39.6372 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick CONCRETE --PAVEMENT--						
	579.6							
	579.3	3-inch thick ASPHALT						
		Medium dense, brownish white CRUSHED STONE --BASE COURSE--			1	15 17 9	NP	15
	577.6	Soft, gray CLAY to SILTY CLAY, trace gravel						
					2	3 2 3	0.49 B	22
			5					
					3	1 2 2	0.57 B	28
					4	1 2 1	0.41 B	27
			10					
					5	2 1 2	0.41 B	23
					6	2 2 2	0.25 B	27
			15					
					7	2 1 3	0.25 B	26
					8	1 1 1	0.25 B	28
			20					
					9	1 2 1	0.16 B	23
					10	1 2 1	0.25 B	25
			25					
					11	0 2 2	0.33 B	26
					12	2 3 3	0.49 B	25
			30					
	544.1	Very stiff to hard, gray SILTY CLAY, trace gravel						
					13	2 3 4	0.25 B	21
			35					
					14	3 4 5	3.00 P	19
			40					

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **07-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 14-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.85 ft
North: 1897238.90 ft
East: 1171475.76 ft
Station: 1229+27.47
Offset: 39.6372 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	12 18 47	5.17 B	17
	534.1	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel						
			50		16	33 45 32/4	3.28 S	15
	529.1	Very dense, gray SAND to SANDY LOAM, trace gravel						
			55		17	17 23 36	NP	18
			60		18	13 30 22	NP	19
			65		19	14 23 33	NP	17
	515.8	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **07-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 14-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.26 ft
North: 1897133.58 ft
East: 1171489.78 ft
Station: 6233+15.05
Offset: 62.0541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.9	4-inch thick, ASPHALT --PAVEMENT--						
	580.8	14-inch thick, CONCRETE --PAVEMENT--						
		Dense, grayish white CRUSHED STONE --FILL--			1	37 30 18	NP	5
	578.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	1 2 3	0.41 B	24
					3	0 1 1	0.41 B	25
			10		4	0 0 1	0.25 B	27
					5	0 0 0	0.16 B	26
			15		6	0 0 2	0.49 B	24
					7	0 0 0	0.41 B	26
			20		8	0 0 0	0.25 B	20
			25		9	0 0 1	0.08 B	27
					10	0 0 1	0.57 B	25
					11	0 1 2	0.57 B	24
			30		12	0 0 2	0.41 B	25
			35		13	0 1 2	0.66 B	26
			40		14	0 0 1	0.25 B	37

GENERAL NOTES

Begin Drilling: **07-30-2014** Complete Drilling: **07-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 14-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.26 ft
North: 1897133.58 ft
East: 1171489.78 ft
Station: 6233+15.05
Offset: 62.0541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.5							
		Hard, gray SILTY CLAY, trace gravel						
			45		15	6 11 19	7.13 B	19
	535.5							
		Gray SILTY LOAM, trace gravel						
	533.1							
		Medium dense, brown, fine SAND --Moist--	50		16	14 23 18	NP	17
			55		17	12 14 14	NP	27
	525.5							
		Dense, gray SILT --Moist--						
			60		18	11 17 19	NP	22
	520.5							
		Medium dense, brown fine SAND --Moist--						
	517.3		65		19	9 11 13	NP	21
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-30-2014** Complete Drilling **07-30-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **52.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 14-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.96 ft
North: 1896992.53 ft
East: 1171501.15 ft
Station: 6234+52.32
Offset: 75.7462 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick CONCRETE --PAVEMENT--						
	581.6							
	581.3	4-inch thick ASPHALT --PAVEMENT--						
		Dense, grayish white SANDY GRAVEL --FILL--			1	22 22 13	NP	3
	579.0							
		Stiff, gray SILTY CLAY, trace gravel	5		2	4 3 5	1.64 B	23
					3	2 2 3	1.07 B	24
	575.0							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	1 2 2	0.41 B	32
					5	0 0 0	0.16 B	39
			15		6	0 0 1	0.41 B	26
					7	0 0 0	0.25 B	25
			20		8	0 0 0	0.25 B	25
			25		9	0 0 0	0.16 B	27
					10	0 0 0	0.25 B	26
					11	0 1 1	0.33 B	24
			30		12	1 1 2	< 0.25 P	26
			35		13	1 2 2	0.82 B	24
			40		14	1 1 2	0.57 B	27

GENERAL NOTES

Begin Drilling: **07-20-2014** Complete Drilling: **07-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 14-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.96 ft
North: 1896992.53 ft
East: 1171501.15 ft
Station: 6234+52.32
Offset: 75.7462 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.2	Dense to very dense, gray CLAY LOAM to SILTY LOAM, trace gravel --Dry--						
			45		15	8 12 20	5.74 B	13
		--L_L(%)=26, P_L(%)=15-- --%Gravel=5.1-- --%Sand=25.2-- --%Silt=47.0-- --%Clay=22.7-- --A-6 (5)--	50		16	13 20 20	NP	12
	528.5	*--5-inch, brown, coarse SAND--*	55		17	9 18 47	NP	12
	526.2	Dense to very dense, brown, fine SAND --Moist--						
			60		18	15 21 37	NP	22

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	518.0	Boring terminated at 65.00 ft	65		19	16 20 22	NP	22
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-20-2014** Complete Drilling: **07-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 15-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.75 ft
North: 1896801.76 ft
East: 1171517.06 ft
Station: 6236+42.48
Offset: 97.8444 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.4	3.5-inch thick ASPHALT --PAVEMENT--						
	579.3	13.5-inch thick CONCRETE --PAVEMENT--						
		Loose to very dense, grayish white SANDY GRAVEL --FILL--			1	21 50/5	NP	8
	576.7	Very soft to soft, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	5		2	2 2 3	< 0.25 P	23
					3	1 1 2	0.33 B	13
	572.7	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	1 1 2	0.25 B	25
			15		1	PUSH	0.25 P	
		--In-Situ Vane Shear, 18.5 feet-- --$S_{u\ undis}$ = 841.75 psf-- --$S_{u\ remold}$ = 362.60 psf--	20		1	VS	0.25 P	
		--Sensitivity = 2.32--	25		2	PUSH	0.25 P	
		--In-Situ Vane Shear, 28.5 feet-- --$S_{u\ undis}$ = 1061.90 psf-- --$S_{u\ remold}$ = 647.50 psf-- --Sensitivity = 1.64--	30		2	VS	0.25 P	
			35		3	PUSH	0.70 B	
	544.0	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	40		5	3 3 8	3.44 B	17

GENERAL NOTES

Begin Drilling: **08-08-2014** Complete Drilling: **08-08-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25 SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 15-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.75 ft
North: 1896801.76 ft
East: 1171517.06 ft
Station: 6236+42.48
Offset: 97.8444 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		6	8 14 25	7.46 B	17
	534.0	Very dense, gray SILTY LOAM, trace gravel --Dry--						
			50		7	13 28 38	NP	12
	529.0	Medium dense to dense, brown fine SAND --Moist--						
			55		8	13 14 18	NP	21
			60		9	9 13 14	NP	23
			65		10	9 11 11	NP	23
	515.7	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-08-2014** Complete Drilling: **08-08-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25 SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 16-RWB-01A

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.13 ft
North: 1896646.77 ft
East: 1171609.88 ft
Station: 6238+13.84
Offset: 35.6064 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick, CONCRETE --PAVEMENT--						
	577.1							
		Dense to very dense, white and brown fine and medium SAND, trace to little gravel --FILL--			1	10 18 20	NP	3
					2	20 22 23	NP	4
			5					
					3	15 22 42	NP	8
					4	50/3	NP	4
	568.6	--Steel plate--						
		Boring terminated at 10.00 ft	10					
			15					
			20					

GENERAL NOTES

Begin Drilling: **07-29-2014** Complete Drilling: **07-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 16-RWB-01B

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.89 ft
North: 1896657.18 ft
East: 1171559.32 ft
Station: 6237+94.68
Offset: 83.6541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.9	12-inch thick, ASPHALT --PAVEMENT--						
		Medium dense, gray CRUSHED STONE --BASE COURSE--			1	5 5 5	NP	5
	574.9	Very stiff, grayish SILTY CLAY LOAM, trace gravel			2	2 4 4	2.62 B	17
			5		3	1 2 3	3.00 P	14
	569.9	Very soft to soft, gray CLAY to SILTY CLAY, trace to little gravel			4	0 1 2	0.25 B	24
			10		5	0 0 2	0.16 B	20
					6	0 1 1	0.08 B	26
			15		7	1 1 2	0.08 B	27
					8	0 1 2	< 0.25 P	30
			20					
					9	0 1 2	< 0.25 P	35
			25		10	0 1 1	< 0.25 P	32
					11	1 2 3	< 0.25 P	29
			30		12	4 4 4	< 0.25 P	27
	541.1	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel --Dry--	35		13	0 1 3	0.25 B	27
			40		14	9 14 16	4.92 S	16

GENERAL NOTES

Begin Drilling: **08-06-2014** Complete Drilling: **08-06-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 16-RWB-01B

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.89 ft
North: 1896657.18 ft
East: 1171559.32 ft
Station: 6237+94.68
Offset: 83.6541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	11 14 26	2.79 S	18
			50		16	12 18 28	7.38 B	15
	526.1	Dense, gray SILTY LOAM, trace gravel						
			55		17	30 26 19	NP	11
	521.1	Stiff, gray SILTY CLAY, trace gravel						
			60		18	5 5 7	1.23 B	33
	516.1	Medium dense, brown, medium to coarse SAND --Dry--						
			65		19	5 6 7	NP	21
	512.9	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-06-2014** Complete Drilling: **08-06-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 16-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.47 ft
North: 1896514.09 ft
East: 1171567.21 ft
Station: 6239+40.38
Offset: 98.1626 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.0	5-inch thick ASPHALT --PAVEMENT--						
		13-inch thick CONCRETE --PAVEMENT--						
	575.0	Very dense, grayish white CRUSHED STONE --FILL--			1	40 35 25/5	NP	9
	573.2	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	5		2	3 2 2	0.49 B	22
					3	1 2 2	0.49 B	20
			10		4	0 2 2	0.33 B	19
					5	0 0 0	0.16 B	18
			15		6	0 0 0	0.08 B	25
					7	0 0 0	< 0.25 B	28
			20		8	0 0 0	NR	
			25		9	0 0 0	0.25 B	25
					10	1 2 2	< 0.25 P	31
			30		11	0 1 2	0.33 B	25
					12	0 0 2	0.41 B	27
	544.7	Medium dense, gray SILT to SILTY LOAM, trace gravel --Dry--	35		13	4 10 7	NP	24
	539.7	Very stiff, gray SILTY CLAY, trace gravel	40		14	4 8 12	3.28 B	19

GENERAL NOTES

Begin Drilling: **08-05-2014** Complete Drilling: **08-05-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 16-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.47 ft
North: 1896514.09 ft
East: 1171567.21 ft
Station: 6239+40.38
Offset: 98.1626 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.7							
		Dense, gray SILTY LOAM, trace gravel						
					15	14 16 22	NP	12
			45					
	529.7							
		Very stiff to hard, gray SILTY CLAY, trace gravel						
					16	8 12 18	4.35 B	21
			50					
					17	5 6 16	2.05 B	23
			55					
	519.7							
		Medium dense, brown fine SAND --Dry--						
					18	7 9 12	NP	24
			60					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	514.7							
		Medium stiff, gray SILTY CLAY, trace gravel						
					19	2 3 4	0.66 B	27
	511.5		65					
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **08-05-2014** Complete Drilling **08-05-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 16-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.10 ft
North: 1896271.92 ft
East: 1171639.81 ft
Station: 1239+13.63
Offset: 4.6520 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	13.5-inch thick, CONCRETE --PAVEMENT--						
	574.6	4.5-inch thick, ASPHALT --BASE COURSE--						
		Dense, brown and gray SANDY GRAVEL			1	23 21 21	NP	11
	572.9	--FILL--						
		Medium stiff, gray SILTY CLAY, trace gravel	5		2	2 3 4	0.82 B	18
	570.6	Soft to very soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.25 B	24
			10		4	1 2 3	0.25 B	26
					5	1 1 2	0.08 B	27
			15		6	1 1 1	0.08 B	27
					7	1 1 1	0.16 B	26
			20		8	1 1 2	0.08 B	27
			25		9	1 2 2	0.41 B	25
					10	1 2 3	0.41 B	25
			30		11	0 2 3	0.33 B	26
					12	2 2 3	0.49 B	25
	544.4	Medium dense, gray SILTY LOAM, trace gravel --Dry--	35		13	8 11 11	NP	20
	537.4	Hard, gray CLAY to SILTY CLAY, trace gravel	40		14	11 12 18	4.92 B	20

GENERAL NOTES

Begin Drilling: **08-10-2014** Complete Drilling: **08-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 16-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.10 ft
North: 1896271.92 ft
East: 1171639.81 ft
Station: 1239+13.63
Offset: 4.6520 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.4							
		Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
					15	10 13 14	3.20 S	15
			45					
	529.4							
		Very dense, gray SILTY LOAM, trace gravel --Dry--						
					16	15 27 33	2.54 S	12
			50					
		Very dense, gray SILTY LOAM, trace gravel --Dry--						
					17	16 23 35	NP	15
			55					
					18	15 23 50/5	NP	14
			60					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					19	50/3	NP	14
	511.1		65					
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-10-2014** Complete Drilling: **08-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 16-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.03 ft
North: 1896103.12 ft
East: 1171665.21 ft
Station: 1240+84.08
Offset: 12.2833 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE						
	574.9							
		Medium dense to dense, white CRUSHED STONE --BASE COURSE--			1	13 13 20	NP	
					2	3 15 10	NP	4
			5					
					3	15 11 9	NP	5
	568.0			▽				
		Loose, gray SANDY LOAM --FILL--			4	5 2 7	NP	17
			10					
	565.5							
		Loose, gray SILTY LOAM, trace gravel --FILL--			5	5 3 4	0.57 S	17
	563.0							
		Medium dense, brown fine to medium SAND, trace gravel --FILL--			6	6 9 13	NP	16
			15					
					7	11 9 10	NP	14
					8	8 6 11	NP	22
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Boring terminated due to obstruction--						
	555.0				9	50/0		
		Boring terminated at 21.00 ft						
			25					
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **07-23-2014** Complete Drilling: **07-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG 1702-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1898849.46 ft
East: 1171361.60 ft
Station: 8211+87.78
Offset: 18.3545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.3	6-inch thick, ASPHALT --PAVEMENT--						
	592.3	12-inch thick, CONCRETE --PAVEMENT--						
		Loose, brown and gray, fine and medium SAND, trace gravel --FILL--			1	3 3 3	NP	12
	590.6	Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel and sand layers --FILL--	5		2	3 3 3	2.50 P	17
					3	2 1 2	1.25 P	20
			10		4	2 2 4	2.05 B	23
	583.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	3 2 2	0.75 P	27
			15		6	0 0 0	0.41 B	26
					7	0 2 2	0.33 B	24
			20		8	0 0 2	0.41 B	20

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.3	Soft, gray CLAY LOAM, trace gravel --L_L(%)=28, P_L(%)=14-- --%Gravel=5.4-- --%Sand=23.0-- --%Silt=46.7-- --%Clay=24.8-- --A-6 (7)--			9	1 1 2	0.33 B	16
	570.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	25		10	1 1 2	0.49 B	25
					11	0 3 2	0.57 B	24
			30		12	0 2 2	0.74 B	24
			35		13	1 2 2	0.41 B	25
			40		14	2 3 4	0.49 B	25

GENERAL NOTES

Begin Drilling: **06-17-2014** Complete Drilling: **06-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25"HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **76.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1898849.46 ft
East: 1171361.60 ft
Station: 8211+87.78
Offset: 18.3545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	552.1	Stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	45		15	3 4 6	1.39 B	17
			50		16	2 4 3	1.39 B	16
	542.1	Soft to stiff, gray SILTY CLAY, trace gravel	55		17	4 6 6	0.49 B	21
			60		18	5 9 17	1.00 P	22
	527.1	Medium stiff to very stiff, gray CLAY, trace gravel	65		19	5 7 14	0.75 P	22
			70		20	5 7 8	2.21 B	24
	517.1	Medium dense to very dense, gray, fine SAND and SILT laminations --Moist--	75		21	3 4 5	0.82 B	30
			80		22	10 7 11	NP	22

GENERAL NOTES

Begin Drilling: **06-17-2014** Complete Drilling: **06-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25"HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **76.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1898849.46 ft
East: 1171361.60 ft
Station: 8211+87.78
Offset: 18.3545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	50/5	NR	
			90		24	20 21 32	NP	20
	502.1	Dense to very dense, gray SILTY LOAM --Moist--	95		25	22 23 23	NP	23
			100		26	18 27 27	NP	19
			105		27	23 32 25	NP	24
	487.8	--AUGER REFUSAL-- Boring terminated at 106.00 ft	110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **06-17-2014** Complete Drilling: **06-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25"HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **76.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.38 ft
North: 1898807.43 ft
East: 1171517.63 ft
Station: 6145+06.52
Offset: 5.1113 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	577.0	5-inch thick, ASPHALT --PAVEMENT--					
	576.4	7-inch thick, CONCRETE --PAVEMENT--					
		Grayish white CRUSHED STONE --BASE COURSE--		1	6 10 4 5	NP	14
	574.0	Medium stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--		2	2 5 5 5	0.57 B	17
5	571.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		3	1 1 1 2	0.25 B	25
				4	0 1 2 2	0.33 B	25
10				5	0 1 1	0.41 B	23
				6	0 1 2	0.16 B	18
15				7	0 0 0	0.33 B	26
				8	0 0 0	0.25 B	27
20				9	0 0 0	0.33 B	26
				10	0 0 0	0.33 B	26
25				11	1 2 3	0.49 B	24
				12	0 2 3	0.74 B	24
30	545.6	Medium stiff to very stiff, gray SILTY CLAY, trace to little gravel		13	1 3 6	1.07 B	20
35				14	3 6 9	2.38 B	21
40							

GENERAL NOTES

Begin Drilling: **07-13-2014** Complete Drilling: **07-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **66.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.38 ft
North: 1898807.43 ft
East: 1171517.63 ft
Station: 6145+06.52
Offset: 5.1113 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	520.6	Medium stiff, gray CLAY, trace gravel						
			45		15	6 10 13	1.00 P	24
			50		16	4 6 10	3.03 B	19
			55		17	5 7 9	3.36 B	24
			60		18	1 2 3	0.82 B	28
	515.6	Medium dense, gray SILTY LOAM, trace gravel; moist						
			65		19	6 9 9	NP	13
	510.6	Dense, brown fine to medium SAND, trace gravel; moist						
			70		20	13 21 28	NP	15
	505.6	Very dense, gray GRAVELLY SAND; moist						
			75		21	50/5	NP	12
			80		22	50/6	NP	17

GENERAL NOTES

Begin Drilling: **07-13-2014** Complete Drilling: **07-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **66.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.38 ft
North: 1898807.43 ft
East: 1171517.63 ft
Station: 6145+06.52
Offset: 5.1113 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	495.6	Very dense, gray SILT; moist						
			85		23	40 56 40/1	NP	20
	489.4	--difficult drilling from 88.0 feet-- --WEATHERED BEDROCK--			24	50/2	NR	
	485.4	Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 18-inch beds, 4-inch spaced joints, horizontal joints with none or less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. --Run 1 - RECOVERY=99%-- --RQD=57%-- --Qu = 10,280 psi--	90			C O R E		
			95		1			
			100					
	475.4	Boring terminated at 102.00 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **07-13-2014** Complete Drilling: **07-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **66.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.01 ft
North: 1898890.82 ft
East: 1171649.04 ft
Station: 8214+76.16
Offset: 15.8644 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	592.8	3-inch thick ASPHALT --PAVEMENT--					
	592.0	9-inch thick CONCRETE --PAVEMENT--					
		Loose, gray GRAVELLY SAND --BASE COURSE--		1	5 3 5	NP	9
	589.8	Very loose, grayish brown SANDY LOAM to SAND, trace to little gravel; moist to wet --FILL--		2	1 0 1	NP	11
5							
	585.8			3	1 2 1	NP	16
		Stiff, grayish brown SILTY CLAY to SILTY CLAY LOAM, trace gravel		4	1 3 3	1.31 B	22
10							
	582.5	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel		5	1 1 1	0.49 B	24
		--In-Situ Vane Shear, 14.0 feet-- --$S_{u\ undis}$ = 544 psf-- --$S_{u\ remold}$ = 181 psf-- --Sensitivity = 3.00--		1			
15							
20				1	P U S	< 0.25	31
25		--In-Situ Vane Shear, 24.0 feet-- --$S_{u\ undis}$ = 1067 psf-- --$S_{u\ remold}$ = 648 psf-- --Sensitivity = 1.64--		2	H	P	
30				2	P U S H	0.25 P	24
35		--In-Situ Vane Shear, 34.0 feet-- --$S_{u\ undis}$ = 712 psf-- --$S_{u\ remold}$ = 233 psf-- --Sensitivity = 3.05--		3			
40				3	P U S	0.25	25

GENERAL NOTES

Begin Drilling: **06-26-2014** Complete Drilling: **06-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **76.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.01 ft
North: 1898890.82 ft
East: 1171649.04 ft
Station: 8214+76.16
Offset: 15.8644 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
						H	P	
		--In-Situ Vane Shear, 44.0 feet--						
		--$S_{u\ undis}$ = 1450 psf--						
		--$S_{u\ remold}$ = 803 psf--						
		--Sensitivity = 1.81--	45		4			
						PUSH		
			50		6		0.41 B	
	540.3	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			55		7	7 9 13	3.85 B	21
			60		8	4 7 17	3.44 B	16
		--L_L(%)=34, P_L(%)=17--						
		--%Gravel=4.1--						
		--%Sand=13.2--						
		--%Silt=49.7--	65		9	3 7 12	2.30 B	22
		--%Clay=33.0--						
		--A-6 (13)--						
			70		10	6 12 16	4.84 B	21
	521.3	Medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			75		11	1 2 5	0.98 B	30
	516.3	Medium dense to dense, gray SAND; moist to saturated						
			80		12	10 9 8	NP	12

GENERAL NOTES

Begin Drilling: **06-26-2014** Complete Drilling: **06-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **76.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1702-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.01 ft
North: 1898890.82 ft
East: 1171649.04 ft
Station: 8214+76.16
Offset: 15.8644 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		13	13 16 15	NP	17
			90		14	17 19 25	NP	20
	499.0	Dense, gray SILT; saturated	95		15	13 17 18	NP	25
	496.3	Dense, brown GRAVELLY SAND; wet	100		16	18 21 22	NP	15
	491.3	Very dense, gray GRAVELLY SILTY LOAM; wet	105		17	50/6	NP	18
	489.0	*Dolostone fragments in the head of the spoon* --difficult drilling from 104 feet-- --WEATHERED BEDROCK--	110					
	484.5	--ROLLER BIT REFUSAL-- Boring terminated at 108.50 ft	115					
			120					

GENERAL NOTES

Begin Drilling: **06-26-2014** Complete Drilling: **06-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **76.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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Telephone: (630) 953-9928
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BORING LOG 1703-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.64 ft
North: 1898050.50 ft
East: 1171954.33 ft
Station: 5213+04.97
Offset: 31.8899 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			1	8 7 5	2.00 P	25
			5		2	4 4 5	1.48 B	22
	581.1							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 3	0.66 B	24
			10		4	1 2 3	0.41 B	25
					5	1 1 2	0.33 B	24
			15		6	1 1 2	0.25 B	25
					7	1 1 3	0.25 B	25
			20		8	1 3 3	0.33 B	17
			25		9	2 2 3	0.25 B	25
					10	2 2 3	0.33 B	26
					11	2 2 2	0.25 B	22
			30		12	1 2 2	0.25 B	28
			35		13	1 2 2	0.16 B	28
			40		14	1 2 4	< 0.25 P	28

GENERAL NOTES

Begin Drilling: **10-21-2013** Complete Drilling: **10-22-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **89.00 ft**
At Completion of Drilling: **89.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1703-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.64 ft
North: 1898050.50 ft
East: 1171954.33 ft
Station: 5213+04.97
Offset: 31.8899 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 3	0.25 B	21
	539.9	Very stiff to hard, gray SILTY CLAY, trace gravel						
			50		16	9 16 24	2.54 B	14
			55		17	12 20 29	6.64 B	14
	527.9	Dense, gray SANDY LOAM, trace gravel --Moist--	60		18	28 25 24	NP	15
	524.9	Hard, gray SILTY CLAY LOAM, trace gravel	65		19	18 25 31	5.41 S	13
			70		20	17 21 34	4.10 S	13
			75		21	15 27 46	8.28 B	15
	509.9	Very dense, gray SILTY LOAM, trace gravel						
			80		22	50/5	NP	10

GENERAL NOTES

Begin Drilling: **10-21-2013** Complete Drilling: **10-22-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **89.00 ft**
At Completion of Drilling: **89.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1703-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.64 ft
North: 1898050.50 ft
East: 1171954.33 ft
Station: 5213+04.97
Offset: 31.8899 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	504.9	Hard, gray SILTY CLAY LOAM, trace gravel						
					23	28 38 50/5	10.00 S	12
			85					
		--HARD DRILLING-- *--Possible Cobbles--*						
	497.6							
		Very dense, gray SILT, trace gravel			24	14 24 43	NP	23
			90					
		--HARD DRILLING-- *--Possible Cobbles--*						
					25	50/4	NP	17
			95					
	489.9							
		Very dense, gray GRAVELLY SAND --Saturated--						
					26	50/4	NP	14
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	484.9	--HARD DRILLING-- Very dense, greenish gray SILT/SHALE, some DOLOSTONE fragments --WEATHERED BEDROCK--			27	50/5	NP	16
			105					
	479.6	Boring terminated at 107.00 ft						
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **10-21-2013** Complete Drilling: **10-22-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **89.00 ft**
At Completion of Drilling: **89.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.98 ft
North: 1897913.67 ft
East: 1171434.80 ft
Station: 5155+31.36
Offset: 19.5036 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.0	4-inch thick ASPHALT over 8-inch thick CONCRETE --PAVEMENT--						
	587.5	6-inch thick CRUSHED STONE --BASE COURSE--						
		Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel, glass, cinders and brick --FILL--						
					1	3 6 9	> 4.50 P	
			5		2	8 7 5	2.87 B	15
					3	4 7 9	6.64 B	16
			10		4	3 4 4	3.12 B	18
	578.5	Very soft to soft, gray CLAY to SILTY CLAY LOAM, trace gravel --2" coarse SAND--->			5	2 1 1	0.25 B	27
		--L_L(%)=31, P_L(%)=17-- --%Gravel=4.1-- --%Sand=20.5-- --%Silt=49.6-- --%Clay=25.9-- --A-6(9)--	15		6	0 0 0	0.16 B	25
					7	0 0 0	0.16 B	23
			20		8	2 2 2	0.49 B	18
			25		9	0 0 0	0.33 B	26
					10	0 0 0	0.16 B	27
			30		11	0 1 1	0.08 B	27
					12	0 0 0	0.16 B	26
		--L_L(%)=31, P_L(%)=18-- --%Gravel=4.1-- --%Sand=15.7-- --%Silt=52.9-- --%Clay=27.3-- --A-6(9)--	35		13	0 0 1	0.25 B	27
			40		14	0 0 2	0.25 B	24

GENERAL NOTES

Begin Drilling: **10-09-2013** Complete Drilling: **10-09-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.50 ft**
At Completion of Drilling: **96.75 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.98 ft
North: 1897913.67 ft
East: 1171434.80 ft
Station: 5155+31.36
Offset: 19.5036 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 2	0.25 B	29
	542.2	Very stiff, gray SILTY CLAY, trace gravel						
			50		16	2 4 8	2.00 N/6	
			55		17	10 14 18	3.61 B	14
	532.2	Very stiff, gray CLAY to SILTY CLAY, trace gravel						
			60		18	5 9 15	3.69 B	22
		--HARD DRILLING-- *--Possible Cobbles--*						
		--L_L(%)=34, P_L(%)=19-- --%Gravel=1.4-- --%Sand=5.0-- --%Silt=50.7-- --%Clay=42.9-- --A-6(14)--	65		19	6 7 10	2.21 B	25
	520.0	Medium dense, gray SILTY LOAM, trace gravel	70		20	5 5 5	2.75 P	17
	517.2	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
		--1" SILT--	75		21	4 9 16	7.05 B	15
		--L_L(%)=25, P_L(%)=16-- --%Gravel=1.9-- --%Sand=9.9--	80		22	12 19 25	6.07 S	16

GENERAL NOTES

Begin Drilling: **10-09-2013** Complete Drilling: **10-09-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.50 ft**
At Completion of Drilling: **96.75 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.98 ft
North: 1897913.67 ft
East: 1171434.80 ft
Station: 5155+31.36
Offset: 19.5036 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=66.6-- --%Clay=21.6-- --A-4(6)-- --HARD DRILLING-- *--Possible Cobbles--*						
	504.7	Dense, gray SILTY LOAM, trace gravel	85		23	16 18 21	5.08 B	20
	502.2	--HARD DRILLING-- Hard, gray SILTY CLAY LOAM, trace gravel						
			90		24	19 50/6"	6.23 S	11
	497.2	Very dense, gray SILTY LOAM, trace gravel						
			95		25	35 50/3"	NP	15
	492.2	Very dense, gray SILT, trace CLAY lamination --Saturated-- --%Gravel=0.0-- --%Sand=0.7-- --%Silt=87.7--	100		26	23 33 47	NP	17

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=11.5-- --A-4(0)--						
	488.0	--ROLLER BIT REFUSAL-- --Possible BEDROCK-- Boring terminated at 101.00 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **10-09-2013** Complete Drilling: **10-09-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.50 ft**
At Completion of Drilling: **96.75 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.24 ft
North: 1897908.23 ft
East: 1171582.03 ft
Station: 5156+77.85
Offset: 32.3584 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.2	12-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL --FILL--			1	17 16 10	NP	5
	572.2	Hard, dark gray CLAY LOAM, trace gravel, brick fragments, and cinders --FILL--	5		2	5 7 8	5.17 B	16
	569.7	Medium stiff to stiff, gray SILTY CLAY, trace gravel			3	3 4 4	1.64 B	20
	567.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	2 2 3	0.49 B	22
					5	0 2 2	0.57 B	22
			15		6	0 2 2	0.66 B	25
					7	0 2 2	0.49 B	25
			20		8	0 1 2	0.33 B	26
			25		9	0 0 2	0.33 B	26
					10	0 1 3	0.41 B	25
			30		11	3 5 6	0.66 B	24
					12	1 2 2	0.33 B	26
	541.0	Hard, gray SILTY CLAY, trace gravel	35		13	2 3 3	1.00 N/6	
			40		14	6 9 16	4.35 B	20

GENERAL NOTES

Begin Drilling: **10-17-2013** Complete Drilling: **10-17-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.50 ft**
At Completion of Drilling: **82.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.24 ft
North: 1897908.23 ft
East: 1171582.03 ft
Station: 5156+77.85
Offset: 32.3584 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	7 14 26	5.41 B	16
			50		16	9 17 18	4.84 B	22
	523.5	Medium dense, gray, fine SAND --Saturated--						
			55		17	1 3 7	NP	23
	518.5	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			60		18	12 20 30	6.97 S	14
	508.5	Very dense, gray SILT --Saturated--	65		19	11 16 27	7.13 B	17
			70		20	15 19 43	NP	23
	503.5	Hard, gray SILTY CLAY LOAM, trace gravel						
			75		21	42 50/5	> 4.50 P	9
	498.5	Dense to very dense, gray SILT to SILTY LOAM --Saturated--						
			80		22	21 37 48	NP	22

GENERAL NOTES

Begin Drilling: **10-17-2013** Complete Drilling: **10-17-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.50 ft**
At Completion of Drilling: **82.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-02

WEI Job No.: 1100-04-01

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Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.24 ft
North: 1897908.23 ft
East: 1171582.03 ft
Station: 5156+77.85
Offset: 32.3584 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	17 20 23	NP	21
	488.5	Hard, gray SILTY CLAY, trace gravel						
			90		24	50/4	> 4.50 P	20
		--ROLLER BIT REFUSAL-- --Possible BEDROCK--						
	482.2	Boring terminated at 93.00 ft						
			95					
			100					

GENERAL NOTES

Begin Drilling **10-17-2013** Complete Drilling **10-17-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **52.50 ft**
At Completion of Drilling ▼ **82.00 ft**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1704-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.52 ft
North: 1897910.46 ft
East: 1171681.80 ft
Station: 5157+77.59
Offset: 35.5253 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.5	12-inch thick ASPHALT --SHOULDER PAVEMENT--						
		Dense, gray and white LOAM, trace gravel --FILL--			1	17 18 16	NP	7
	572.5	Hard, dark brown SILTY CLAY LOAM, trace to little gravel --FILL--	5		2	5 6 8	6.56 B	17
	570.0	Loose, black to brown SANDY LOAM, trace gravel --FILL--			3	3 4 4	NP	21
	566.5	Stiff, brown and gray SILTY CLAY, trace gravel	10		4	2 3 4	1.31 B	19
	565.0	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	2 2 2	0.67 N/6	23
			15		6	1 2 2	0.67 N/6	21
					7	1 1 2	0.90 B	22
	557.5	Medium stiff, to stiff, gray SILTY CLAY LOAM, trace gravel	20		8	3 4 4	1.15 B	19
	550.0	Soft, gray CLAY to SILTY CLAY, trace gravel	25		9	2 3 3	0.90 B	19
					10	1 2 3	0.75 P	20
			30		11	2 1 2	0.49 B	25
					12	2 2 3	0.49 B	28
	543.8	Hard, gray SILTY CLAY LOAM, trace gravel --1" SILT; moist--->	35		13	5 3 3	4.92 B	21
			40		14	8 9 12	4.02 B	17

GENERAL NOTES

Begin Drilling: **10-21-2013** Complete Drilling: **10-21-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **54.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.52 ft
North: 1897910.46 ft
East: 1171681.80 ft
Station: 5157+77.59
Offset: 35.5253 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	10 12 14	4.02 B	18
			50		16	19 34 22	6.01 B	10
	521.5	Medium dense, gray SILTY LOAM, trace gravel --Wet--	55		17	4 4 6	NP	23
	518.8	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel	60		18	16 12 14	4.50 P	16
	508.8	Very dense, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	65		19	11 15 26	2.87 B	22
			70		20	24 38 37	4.51 S	10
			75		21	15 44 50/3	NP	15
			80		22	28 50/5	3.85 S	9

GENERAL NOTES

Begin Drilling: **10-21-2013** Complete Drilling: **10-21-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **54.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1704-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.52 ft
North: 1897910.46 ft
East: 1171681.80 ft
Station: 5157+77.59
Offset: 35.5253 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	32 35 38	4.10 B	18
	488.8	Very stiff, gray SILTY CLAY LOAM, trace gravel						
			90		24	16 13 18	2.96 B	18
	483.8	Very dense, gray GRAVELLY SAND --WEATHERED BEDROCK--						
		--HARD DRILLING-- *--Possible Cobbles--*	95		25	50/4	NP	16
	480.0	--ROLLER BIT REFUSAL-- Boring terminated at 95.50 ft						
			100					

GENERAL NOTES

Begin Drilling: **10-21-2013** Complete Drilling: **10-21-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **54.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.91 ft
North: 1896943.83 ft
East: 1171839.55 ft
Station: 1819+14.23
Offset: 7.9591 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick CONCRETE --PAVEMENT--						
	581.3							
		Dense, gray CRUSHED STONE --FILL--			1	23 18 14	NP	4
	579.7							
		Stiff, gray SILTY CLAY, trace gravel			2	2 2 3	1.64 B	33
			5					
	577.4							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.57 B	21
		--In-Situ Vane Shear, 8.0 feet--			1	VS		
		--$S_{u\ undis}$ = 1034.0 psf--				1 2 3	0.74 B	20
		--$S_{u\ remold}$ = 336.05 psf--			4			
		--Sensitivity = 3.07--	10					
		--In-Situ Vane Shear, 10.5 feet--			2	VS		
		--$S_{u\ undis}$ = 1189.1 psf--				2 1 3	< 0.25 P	20
		--$S_{u\ remold}$ = 620.4 psf--			5			
		--Sensitivity = 1.92--						
		--In-Situ Vane Shear, 13.0 feet--			3	VS		
		--$S_{u\ undis}$ = 1706.1 psf--				2 1 1	0.49 B	25
		--$S_{u\ remold}$ = 620.4 psf--			6			
		--Sensitivity = 2.75--	15					
		--In-Situ Vane Shear, 15.5 feet--			4	VS		
		--$S_{u\ undis}$ = 620.4 psf--				1 2 2	0.25 B	28
		--$S_{u\ remold}$ = 361.9 psf--			7			
		--Sensitivity = 1.71--						
		6-inch, gray SILTY LOAM, little gravel						
		--In-Situ Vane Shear, 18.0 feet--			5	VS		
		--$S_{u\ undis}$ = 543.9 psf--				0 2 3	0.33 B	25
		--$S_{u\ remold}$ = 336.7 psf--			8			
		--Sensitivity = 1.63--	20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 20.5 feet--			6	VS		
		--$S_{u\ undis}$ = 854.7 psf--				1 1 1	< 0.25 P	28
		--$S_{u\ remold}$ = 207.2 psf--			9			
		--Sensitivity = 4.13--						
		--In-Situ Vane Shear, 23.0 feet--			7	VS		
		--$S_{u\ undis}$ = 492.1 psf--				1 1 2	< 0.25 P	23
		--$S_{u\ remold}$ = 181.3 psf--			10			
		--Sensitivity = 2.71--	25					
		--In-Situ Vane Shear, 25.5 feet--			8	VS		
		--$S_{u\ undis}$ = 440.3 psf--				0 0 2	0.41 B	27
		--$S_{u\ remold}$ = 284.9 psf--			11			
		--Sensitivity = 1.54--						
		--In-Situ Vane Shear, 28.0 feet--			9	VS		
		--$S_{u\ undis}$ = 880.6 psf--				0 1 2	0.33 B	26
		--$S_{u\ remold}$ = 103.6 psf--			12			
		--Sensitivity = 8.5--	30					
		--In-Situ Vane Shear, 31.5 feet--			10	VS		
		--$S_{u\ undis}$ = 259 psf--						
		--$S_{u\ remold}$ = 25.9 psf--						
		--Sensitivity = 10.0--						
					13	1 2 3	0.98 B	24
			35					
		--In-Situ Vane Shear, 36.5 feet--			11	VS		
		--$S_{u\ undis}$ = 1602.7 psf--						
		--$S_{u\ remold}$ = 155.1 psf--						
		--Sensitivity = 10.33--						
					14	2 2 3	0.50 P	26
			40					

GENERAL NOTES

Begin Drilling: **06-18-2013** Complete Drilling: **06-20-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.91 ft
North: 1896943.83 ft
East: 1171839.55 ft
Station: 1819+14.23
Offset: 7.9591 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 41.5 feet--						
		--$S_{u\ undis}$ = 2171.4 psf--						
		--$S_{u\ remold}$ = 1447.6 psf--						
		--Sensitivity = 1.5--			12	VS		
	540.2	Hard, gray SILTY CLAY LOAM, trace to little gravel						
			45		15	6 14 27	6.56 B	17
			50		16	18 19 40	4.00 P	15
	528.9	Dense, gray SANDY LOAM, little gravel						
		--MOIST--	55		17	24 17 28	NP	12
	526.2	Dense to very dense, gray SANDY GRAVEL						
			60		18	10 34 47	NP	23
			65		19	12 18 18	NP	11
	513.9	Hard, gray SILTY CLAY LOAM, trace gravel						
			70		20	9 23 30	NP	12
			75		21	18 32 28	10.25 B	14
			80		22	28 36 37	2.48 B	16

GENERAL NOTES

Begin Drilling: **06-18-2013** Complete Drilling: **06-20-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.91 ft
North: 1896943.83 ft
East: 1171839.55 ft
Station: 1819+14.23
Offset: 7.9591 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- *--Possible Cobbles--*			23	50/5.5	4.50 P	11
			85					
	494.9							
		Very dense, brown GRAVEL			24	50/2	NP	
		--AUGER REFUSAL--						
	492.9		90					
		Boring terminated at 90.00 ft						
			95					
			100					

GENERAL NOTES

Begin Drilling: **06-18-2013** Complete Drilling: **06-20-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.14 ft
North: 1897114.28 ft
East: 1171830.86 ft
Station: 1820+84.67
Offset: 1.9068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.0	13-inch thick CONCRETE --PAVEMENT--						
	580.1	Medium dense, gray CRUSHED STONE --FILL--			1	14 11 6	NP	4
	577.6	Very stiff, gray SILTY CLAY, trace gravel	5		2	2 4 5	2.62 B	27
	572.6	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		3	1 3 5	0.98 B	25
	570.1	Soft, gray SILTY LOAM, trace gravel			4	1 2 2	0.66 B	21
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	15		5	1 1 2	0.49 B	21
					6	0 0 1	0.41 B	26
					7	0 0 1	0.33 B	20
			20		8	0 0 0	0.41 B	27
			25		9	0 1 2	< 0.25 P	22
					10	0 0 0	0.41 B	26
					11	0 0 0	0.33 B	27
			30		12	0 0 2	0.41 B	25
		--L_L(%)=38, P_L(%)=16-- --%Gravel=1.9-- --%Sand=10.7-- --%Silt=49.3-- --%Clay=38.0-- --A-6 (19)--	35		13	1 3 3	0.90 B	26
			40		14	1 2 1	0.41 B	29

GENERAL NOTES

Begin Drilling: **06-20-2013** Complete Drilling: **06-21-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.14 ft
North: 1897114.28 ft
East: 1171830.86 ft
Station: 1820+84.67
Offset: 1.9068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.4	Hard, gray SILTY CLAY LOAM, trace gravel						
			45		15	10 14 20	5.74 B	15
			50		16	10 15 21	4.10 B	21
			55		17	12 18 27	10.09 B	15
	524.1	Dense, gray GRAVELLY SANDY LOAM	60		18	11 14 18	NP	14
		--%Gravel=28.5-- --%Sand=49.5-- --%Silt=19.2-- --%Clay=2.9-- --A-1-b (0)--	65		19	19 23 23	NP	16
	516.4	Dense, gray GRAVEL	70		20	16 26 31	NP	14
			75		21	5 20 34	NP	5
	506.4	Dense, gray, medium to coarse SAND, trace gravel						
		--%Gravel=14.4-- --%Sand=68.5-- --%Silt=14.9--	80		22	16 15 18	NP	14

GENERAL NOTES

Begin Drilling: **06-20-2013** Complete Drilling: **06-21-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.14 ft
North: 1897114.28 ft
East: 1171830.86 ft
Station: 1820+84.67
Offset: 1.9068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=2.2-- --A-1-b (0)--						
	501.4	Very dense, gray GRAVEL						
					23	50/5	NP	21
			85					
	497.1	Strong, excellent rock quality, light gray, fresh, joint breaks with little to no infill, slightly vuggy DOLOSTONE				CORE		
		--Run 1 - RECOVERY =100%-- --RQD=95%--						
			90		1			
			95					
	487.1	Boring terminated at 96.00 ft						
			100					

GENERAL NOTES

Begin Drilling: **06-20-2013** Complete Drilling: **06-21-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.97 ft
North: 1897265.33 ft
East: 1171824.88 ft
Station: 1822+35.62
Offset: 5.8630 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	580.9	13-inch thick CONCRETE --PAVEMENT--					
	580.5	5-inch thick ASPHALT --PAVEMENT--					
	579.8	8-inch thick CRUSHED STONE --BASE COURSE--					
		Medium stiff to stiff, gray SILTY CLAY, trace gravel					
				1	13 6 3	NP B	15
				2	3 2 3	1.39 B	27
5							
				3	1 2 4	0.98 B	23
				4	2 3 4	0.82 B	15
10							
				5	1 2 3	1.07 B	17
	569.0	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel					
				6	0 0 2	0.57 B	25
15							
				7	0 0 2	0.57 B	26
				8	0 1 2	< 0.25 P	26
20							
				9	0 0 1	0.49 B	25
25				10	0 0 0	0.49 B	27
				11	0 0 0	0.25 B	25
30				12	0 1 2	NA	31
	545.2	Loose, gray SANDY LOAM, trace gravel --Wet--					
35				13	0 1 3	0.50 P	27
				14	4 3 4	NP	16
40							

GENERAL NOTES

Begin Drilling: **06-25-2013** Complete Drilling: **06-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **37.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.97 ft
North: 1897265.33 ft
East: 1171824.88 ft
Station: 1822+35.62
Offset: 5.8630 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.2							
		Very stiff, gray SILTY CLAY LOAM, trace gravel						
	537.5				15	6 24 27	3.03 B	14
		Stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	45					
		--L_L(%)=28, P_L(%)=14-- --%Gravel=1.8-- --%Sand=6.9-- --%Silt=71.9-- --%Clay=19.4-- --A-6 (11)--						
			50		16	9 13 16	1.72 B	14
	530.2							
		Very dense, gray SANDY LOAM, trace gravel						
			55		17	15 24 30	NP	13
			60		18	18 23 28	NP	14
	520.2							
		Hard, gray SILTY CLAY LOAM, trace gravel						
	517.5				19	15 29 42	6.48 B	14
		Dense, gray, fine SAND	65					
	515.2							
		Dense, gray medium SAND, trace gravel						
			70		20	18 19 19	NP	13
	510.2							
		Dense, gray SILT, little gravel						
			75		21	16 50/1	3.00 S	16
	505.2							
		Very dense, gray GRAVELLY SAND to GRAVELLY SANDY LOAM						
			80		22	2 50/2	NP	12

GENERAL NOTES

Begin Drilling: **06-25-2013** Complete Drilling: **06-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **37.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.97 ft
North: 1897265.33 ft
East: 1171824.88 ft
Station: 1822+35.62
Offset: 5.8630 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	497.0	Boring terminated at 85.00 ft	85		23	50/5	NP	13
			90					
			95					
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **06-25-2013** Complete Drilling: **06-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **37.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.59 ft
North: 1897425.71 ft
East: 1171810.07 ft
Station: 1823+96.68
Offset: 5.3334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14.5-inch thick CONCRETE --PAVEMENT--						
	579.4							
	579.1	3-inch thick ASPHALT						
		Loose, dark gray SANDY GRAVEL			1	4 5 4	NP	4
	578.1	--BASE COURSE--						
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 2 3	0.49 B	22
			5		3	1 1 2	0.41 B	21
					4	1 1 2	0.33 B	26
			10		5	0 0 0	0.33 B	28
					6	0 1 1	0.33 B	16
			15		7	0 0 2	0.33 B	24
					8	0 1 2	0.25 B	23
			20		9	0 1 1	0.16 B	27
					10	0 2 2	0.49 B	22
			25		11	0 2 2	0.66 B	25
					12	0 2 2	0.33 B	25
			30		13	1 1 2	0.49 B	25
			35		14	0 1 1	0.08 B	28
			40					

GENERAL NOTES

Begin Drilling: **07-02-2013** Complete Drilling: **07-03-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.59 ft
North: 1897425.71 ft
East: 1171810.07 ft
Station: 1823+96.68
Offset: 5.3334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	538.8							
		Hard, gray SILTY CLAY LOAM, trace gravel						
			45		15	7 9 14	4.10 B	19
			50		16	11 14 24	5.08 S	12
		--HARD DRILLING-- *--Possible Cobbles--*						
	528.8							
		Dense, gray SILT						
			55		17	10 16 25	5.90 B	17
	523.8							
		Medium dense, gray, fine SAND with SILT and CLAY lamination --Wet--						
			60		18	6 6 9	NP	37
		--HARD DRILLING-- *--Possible Cobbles--*						
	518.8							
		Dense to very dense, gray GRAVELLY SAND						
			65		19	24 18 26	NP	5
			70		20	50/6	NP	5
		--HARD DRILLING-- *--Possible Cobbles--*						
	508.8							
		Very Dense, gray SILTY LOAM, trace gravel and cobbles						
		--L_L(%)=18, P_L(%)=14-- --%Gravel=12.9-- --%Sand=25.2-- --%Silt=56.7-- --%Clay=5.2-- --A-4 (0)-- --HARD DRILLING-- *--Possible Cobbles--*	75		21	79/6	NP	11
			80		22	65/6	NP	17

GENERAL NOTES

Begin Drilling: **07-02-2013** Complete Drilling: **07-03-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-04

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.59 ft
North: 1897425.71 ft
East: 1171810.07 ft
Station: 1823+96.68
Offset: 5.3334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING--						
		--Possible Cobbles--						
				⊠	23	63/3	NP	5
		--AUGER REFUSAL--						
			85					
	495.1							
		Boring terminated at 85.50 ft						
			90					
			95					
			100					

GENERAL NOTES

Begin Drilling **07-02-2013** Complete Drilling **07-03-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.65 ft
North: 1897590.86 ft
East: 1171794.26 ft
Station: 1825+62.58
Offset: 4.2306 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick ASPHALT --PAVEMENT--						
	578.6	Loose, gray SANDY GRAVEL --FILL--			1	5 3 4	NP	4
	576.6	Very soft to soft, gray CLAY to SILTY CLAY LOAM, trace gravel	5		2	0 0 0	< 0.25 P	18
					3	0 0 1	0.41 B	20
			10		4	0 0 0	0.25 B	21
					5	0 0 0	0.25 B	24
			15		6	0 3 2	0.33 B	23
		--L_L(%)=35, P_L(%)=15-- --%Gravel=5.8-- --%Sand=17.8-- --%Silt=48.3-- --%Clay=28.1-- --A-6 (14)--			7	0 0 1	0.41 B	24
	561.6	Very loose, gray LOAM			8	0 0 0	NP	28
			20					
	559.1	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			9	0 0 0	0.25 B	25
			25		10	1 1 2	0.41 B	25
					11	0 2 2	< 0.25 P	27
			30		12	0 0 1	0.41 B	25
	547.1	--Obstruction at 32.5 ft-- Boring terminated at 32.50 ft						
			35					
			40					

GENERAL NOTES

Begin Drilling: **07-22-2013** Complete Drilling: **07-22-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-07

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.23 ft
North: 1897855.27 ft
East: 1171688.90 ft
Station: 1828+55.08
Offset: 28.8337 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.3	11-inch thick, ASPHALT --PAVEMENT--						
		25-inch thick SANDY GRAVEL --BASE COURSE--			1	18 22 15	NP	4
	573.2	Stiff, gray SILTY CLAY, trace gravel	5		2	2 3 4	1.48 B	22
	570.7	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.66 B	19
			10		4	0 1 2	0.49 B	26
					5	0 0 0	0.33 B	26
			15		6	0 0 0	NA	
					7	0 0 0	0.25 B	27
			20		8	0 0 0	0.25 B	28
			25		9	0 0 0	0.33 B	26
					10	2 2 2	0.33 B	27
					11	0 0 3	NA	
		--L_L(%)=38, P_L(%)=17-- --%Gravel=2.0-- --%Sand=13.4-- --%Silt=51.3-- --%Clay=33.2-- --A-6 (17)--	30		12	0 0 0	0.49 B	26
	544.5	Stiff to hard, gray SILTY CLAY LOAM, trace gravel	35		13	2 3 6	1.75 P	16
			40		14	4 6 11	3.12 B	18

GENERAL NOTES

Begin Drilling: **07-24-2013** Complete Drilling: **07-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-07

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.23 ft
North: 1897855.27 ft
East: 1171688.90 ft
Station: 1828+55.08
Offset: 28.8337 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	5 8 13	4.92 B	15
			50		16	6 13 17	6.07 B	18
	524.5	Medium dense, gray SILT						
			55		17	4 7 9	NP	23
	519.5	Hard, gray SILTY CLAY LOAM, trace gravel						
			60		18	13 15 20	4.84 B	14
			65		19	8 16 24	7.05 B	14
			70		20	24 36 42	> 4.50 P	15
	499.5	Dense, gray SILT						
			75		21	12 16 50/3	5.33 B	16
			80		22	11 18 25	NP	20

GENERAL NOTES

Begin Drilling **07-24-2013** Complete Drilling **07-25-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **F. Bozga** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1705-B-07

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.23 ft
North: 1897855.27 ft
East: 1171688.90 ft
Station: 1828+55.08
Offset: 28.8337 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Gravel=0.4-- --%Sand=3.9-- --%Silt=88.1-- --%Clay=7.7-- --A-4 (0)--	85		23	14 19 24	NP	23
	489.5	Very dense, gray SILTY LOAM, little gravel						
			90		24	50/5	NP	11
	482.5	ROCK FRAGMENTS --HARD DRILLING-- --AUGER REFUSAL--	95		25	50/2	NP	15
	481.2	Boring terminated at 95.00 ft						
			100					

GENERAL NOTES

Begin Drilling **07-24-2013** Complete Drilling **07-25-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **F. Bozga** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1705-B-08

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.57 ft
North: 1898070.84 ft
East: 1171576.26 ft
Station: 1830+90.17
Offset: 36.1195 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.2	5-inch thick ASPHALT --PAVEMENT--						
	572.4	9-inch thick CONCRETE --PAVEMENT--						
		Medium dense, brown, CRUSHED STONE			1	9 9 12	NP	6
	570.6	--BASE COURSE--						
		Stiff, gray SILTY CLAY, trace gravel			2	6 5 5	1.39 B	18
	568.1	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	5		3	2 1 1	0.41 B	24
		--In-Situ Vane Shear, 10.5 feet-- --$S_{u\ undis}$ = 414.4 psf-- --$S_{u\ remold}$ = 284.9 psf-- --Sensitivity = 1.45--	10		4	1 1 2	0.16 B	26
		--In-Situ Vane Shear, 13 feet-- --$S_{u\ undis}$ = 466.2 psf-- --$S_{u\ remold}$ = 233.1 psf-- --Sensitivity = 2.00--			5	1 1 2	0.16 B	26
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 518.0 psf-- --$S_{u\ remold}$ = 310.8 psf-- --Sensitivity = 1.66--	15		6	2 2 2	0.16 B	27
		--In-Situ Vane Shear, 18.0 feet-- --$S_{u\ undis}$ = 984.2 psf-- --$S_{u\ remold}$ = 310.8 psf-- --Sensitivity = 3.16--			7	2 2 3	0.25 B	27
		--In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 984.2 psf--	20		8	3 4 4	0.25 B	23
		--$S_{u\ remold}$ = 543.9 psf-- --Sensitivity = 1.81--			5			
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 1320.9 psf-- --$S_{u\ remold}$ = 725.2 psf-- --Sensitivity = 1.82--			9	3 4 5	0.25 B	24
					6			
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 725.2 psf-- --$S_{u\ remold}$ = 414.4 psf-- --Sensitivity = 1.75--	25		10	4 5 5	0.49 B	25
					7			
		--In-Situ Vane Shear, 28.0 feet-- --$S_{u\ undis}$ = 595.7 psf-- --$S_{u\ remold}$ = 284.9 psf-- --Sensitivity = 2.09--			11	3 4 4	0.33 B	26
					8			
	544.6	Medium dense, gray LOAM, trace gravel	30		12	3 6 10	NP	11
	541.8	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			13	3 6 9	2.05 B	20
			35					
					14	9 13 18	3.85 B	13
			40					

GENERAL NOTES

Begin Drilling: **09-08-2013** Complete Drilling: **09-10-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-08

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.57 ft
North: 1898070.84 ft
East: 1171576.26 ft
Station: 1830+90.17
Offset: 36.1195 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	11 17 25	5.33 S	16
	526.8	Very dense, gray SILTY LOAM, trace gravel						
			50		16	25 27 32	NP	11
	521.8	Very dense, gray SILT with sand lenses						
			55		17	18 25 37	NP	20
	518.8	Hard, gray SILTY CLAY, trace gravel						
			60		18	16 24 39	8.12 B	16
	511.8	Very dense, gray SILT --Wet--						
			65		19	20 27 41	NP	22
	506.8	Very dense, gray SILTY LOAM, trace gravel						
			70		20	50/6"	NP	14
			75		21	50/6"	NP	12
	496.8	Very dense, gray SILT						
		--%Gravel=0.0-- --%Sand=1.5-- --%Silt=86.1--	80		22	36 50/6"	NP	21

GENERAL NOTES

Begin Drilling: **09-08-2013** Complete Drilling: **09-10-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1705-B-08

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.57 ft
North: 1898070.84 ft
East: 1171576.26 ft
Station: 1830+90.17
Offset: 36.1195 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=12.4--						
		--A-4 (0)--						
					23	22	NP	17
						50/5"		
			85					
	487.6	DOLOSTONE boulders						
		--Run 1 - RECOVERY= 66%--				C		
		--RQD= 47%--				O		
						R		
		89.0ft-Qu=8880 psi --->				E		
			90					
					1			
		--3-inch thick SILTY LOAM, trace gravel--						
	479.1							
		Strong, fair rock quality, light gray, fresh, joint breaks with little to no infill, slightly vuggy DOLOSTONE	95			C		
		95.5ft-Qu=9380 psi --->				O		
		--Run 2 - RECOVERY= 94%--				R		
		--RQD= 72%--				E		
		98.5ft-Qu=9080 psi --->			2			
		102.5ft-Qu=9750 psi --->	100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Run 3 - RECOVERY= 100%--				C		
		--RQD= 65%--				O		
			105			R		
					3	E		
		106.5ft-Qu=7500 psi --->						
	465.1							
		Boring terminated at 108.50 ft						
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **09-08-2013** Complete Drilling: **09-10-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1706-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.37 ft
North: 1898150.62 ft
East: 1171768.12 ft
Station: 1105+20.19
Offset: 0.3840' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.1	3-inch thick ASPHALT --PAVEMENT--						
	585.3	10-inch thick CONCRETE --PAVEMENT--						
		Medium dense, brown CRUSHED STONE --BASE COURSE--			1	7 12 8	NP	7
	583.1	Medium dense, brown, fine SAND --FILL--	5		2	4 4 7	NP	23
					3	3 4 4	NP	16
	579.2	Very stiff (2.5P), brown and gray SILTY CLAY LOAM, trace gravel --FILL--						
	578.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	1 2 3	0.57 B	22
					5	2 1 2	0.25 B	22
			15		6	1 2 3	0.74 B	19
					7	2 2 2	0.49 B	21
			20		8	1 2 3	0.41 B	25
			25		9	0 0 1	0.33 B	26
					10	1 2 1	0.25 B	25
					11	0 1 1	0.16 B	27
			30		12	2 1 2	0.16 B	26
			35		13	0 1 1	0.16 B	26
			40		14	1 1 1	0.41 B	26

GENERAL NOTES

Begin Drilling: **03-16-2014** Complete Drilling: **03-18-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA hours**
Depth to Water: **NA ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1706-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.37 ft
North: 1898150.62 ft
East: 1171768.12 ft
Station: 1105+20.19
Offset: 0.3840' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 5 8	0.66 B	13
	539.6	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel						
			50		16	5 8 15	3.61 B	21
			55		17	8 9 19	5.08 B	15
	529.4	Very dense, gray GRAVELLY LOAM						
			60		18	15 40 25	NP	10

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- *--Possible Cobbles--*						
	524.6	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			65		19	18 27 21	> 4.50 P	12
		--HARD DRILLING-- *--Possible Cobbles--*						
			70		20	15 22 24	> 4.50 P	14
			75		21	15 24 32	> 10.25 B	13
			80		22	32 50	> 8.33 N/6	9

GENERAL NOTES

Begin Drilling: **03-16-2014** Complete Drilling: **03-18-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA hours**
Depth to Water: **NA ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1706-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.37 ft
North: 1898150.62 ft
East: 1171768.12 ft
Station: 1105+20.19
Offset: 0.3840' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	504.6	Very dense, gray GRAVELLY SILTY LOAM						
		--Wet--						
		--%Gravel=19.6--						
		--%Sand=26.3--						
		--%Silt=51.0--						
		--%Clay=3.1--	85					
		--A-4 (0)--						
		--HARD DRILLING--						
		--Possible Cobbles--						
					23	50/5	NP	11
					24	50/5	NP	12
			90					
	494.6	Gray SILT						
		--Wet--						
	492.4	Hard, gray SILTY CLAY LOAM, to SILTY LOAM, trace gravel			25	27 24 38	5.00 S	16
			95					
					26	13 26 40	4.92 S	17
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					27	50/3	NP	11
			105					
		--HARD DRILLING--						
		--Possible Cobbles--						
	480.4	--WEATHERED BEDROCK--						
		--VERY HARD DRILLING--						
	477.4	Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, up to 18-inch beds, 8-inch joints spacing, horizontal and vertical joints with none to more than 0.2-inch infilling, up to 4-inch greenish gray argillaceous partings, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	110			CORE		
		--Run 1 - RECOVERY=100%--			1			
		--RQD=76%--	115					
	467.4	Boring terminated at 119.00 ft						
			120					

GENERAL NOTES

Begin Drilling: **03-16-2014** Complete Drilling: **03-18-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA hours**
Depth to Water: **NA ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1706-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.51 ft
North: 1898279.12 ft
East: 1171636.73 ft
Station: 1214+88.11
Offset: 8.0782 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick ASPHALT \--PAVEMENT--						
	572.2							
		Medium dense, white and gray CRUSHED STONE --BASE COURSE--			1	6 12 13	NP	
	570.3							
		Very stiff, gray SILTY CLAY LOAM, trace gravel			2	2 4 4	3.28 B	19
	568.0		5					
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 1	0.41 B	16
					4	0 0 2	0.41 B	27
			10					
					5	0 1 1	0.41 B	27
					6	0 1 1	0.25 B	26
			15					
					7	0 1 1	0.41 B	25
		--L_L(%)=34, P_L(%)=17-- --%Gravel=4.2-- --%Sand=15.6--			8	0 0 1	0.41 B	24
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=49.0-- --%Clay=31.3-- --A-6 (12)--			9	0 0 1	0.49 B	25
			25		10	0 1 2	< 0.25 P	27
					11	1 2 3	< 0.25 P	24
			30		12	2 2 3	0.82 B	25
	541.8							
		Stiff to hard, gray SILTY CLAY, trace gravel			13	7 6 7	1.23 B	18
			35					
					14	4 7 8	3.03 B	20
			40					

GENERAL NOTES

Begin Drilling: **03-27-2014** Complete Drilling: **03-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1706-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.51 ft
North: 1898279.12 ft
East: 1171636.73 ft
Station: 1214+88.11
Offset: 8.0782 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 6 18	2.87 B	18
	524.0		50		16	5 15 13	4.10 B	16
		Medium dense, gray SILT						
		--Wet--	55		17	7 7 8	NP	23
	516.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			60		18	15 20 27	6.97 S	13
			65		19	15 20 27	9.02 S	16
			70		20	16 26 50/2	4.74 B	13
	501.8	--HARD DRILLING-- *--Possible Cobbles--*						
		Very dense, gray GRAVELLY SANDY LOAM	75		21	50/2	NP	
		--Wet--	80		22	50/3	NP	13

GENERAL NOTES

Begin Drilling: **03-27-2014** Complete Drilling: **03-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1706-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.51 ft
North: 1898279.12 ft
East: 1171636.73 ft
Station: 1214+88.11
Offset: 8.0782 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING--						
		--Possible Cobbles--						
	491.8							
		Very dense, gray SILT, trace CLAY lamination						
		--DRY--			23	20 33 28	NP	20
			85					
		--DRY--				17 50 43	NP	16
	484.3				24			
		Very dense, gray GRAVELLY SAND	90					
		--Wet--						
	481.5							
		Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, up to 12-inch beds, 9-inch joints spacing, horizontal and vertical joints with none to more than 0.2-inch infilling, up to 2-inch greenish gray argillaceous partings, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.				C O R E		
			95		1			
		--Run 1 - RECOVERY=100%--						
		--RQD=83%--						
		--Run 2 - RECOVERY=97%--				C O R E		
		--RQD=92%--			2			
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	471.5							
		Boring terminated at 102.00 ft						
			105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **03-27-2014** Complete Drilling: **03-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1710-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.37 ft
North: 1897868.08 ft
East: 1171913.23 ft
Station: 1705+72.43
Offset: 55.5596 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.5	10-inch thick, brown SILTY LOAM --TOPSOIL--						
		Hard, brown, SILTY CLAY LOAM, little gravel, wood and brick fragments --FILL--			1	22 18 11	> 4.50 P	13
			5		2	5 6 7	2.71 S	17
	580.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 3 3	0.57 B	24
			10		4	0 1 2	0.33 B	25
					5	0 0 0	0.25 B	25
			15		6	0 2 2	0.33 B	16
					7	0 0 1	0.33 B	26
			20		8	1 1 1	0.25 B	24
			25		9	0 1 1	< 0.25 P	23
					10	0 0 0	0.25 B	19
			30		11	0 2 2	< 0.25 P	18
					12	0 1 2	0.41 B	25
			35		13	1 1 2	0.33 B	26
			40		14	0 1 1	0.33 B	26

GENERAL NOTES

Begin Drilling: **10-01-2013** Complete Drilling: **10-01-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **B. Wilson** Checked by: **L. Iordache**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **88.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.37 ft
North: 1897868.08 ft
East: 1171913.23 ft
Station: 1705+72.43
Offset: 55.5596 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 1 2	0.25 B	29
	539.6							
		Very stiff, gray SILTY CLAY LOAM, trace gravel	50		16	3 5 8	2.21 B	22
			55		17	8 10 22	3.00 P	16
	529.6							
		Very stiff to hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	60		18	23 33 33	5.74 S	11
			65		19	11 18 24	5.90 S	17
			70		20	11 19 26	7.30 S	12
			75		21	50/2"	> 4.50 S	17
			80		22	30 36 43	5.66 S	9

GENERAL NOTES

Begin Drilling **10-01-2013** Complete Drilling **10-01-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&R** Logger **B. Wilson** Checked by **L. Iordache**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **88.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 1710-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.37 ft
North: 1897868.08 ft
East: 1171913.23 ft
Station: 1705+72.43
Offset: 55.5596 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Cobble at 83.5'-84'--	85		23	13 21 26	3.53 S	24
	499.6	Very dense, gray GRAVELLY SAND						
		--possible underpressure groundwater bearing--	90		24	22 32 43	NP	12
		--HARD DRILLING-- *--Possible Cobbles--*						
			95		25	50/4"	NP	6
		--HARD DRILLING-- *--Possible Cobbles--*						
			100		26	50/3"	NP	11
		--HARD DRILLING-- *--Possible Cobbles--*	105					
	483.9	--ROLLER BIT REFUSAL-- Boring terminated at 102.50 ft						
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **10-01-2013** Complete Drilling: **10-01-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **B. Wilson** Checked by: **L. Iordache**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **88.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1710-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.04 ft
North: 1897891.66 ft
East: 1171988.13 ft
Station: 1706+38.71
Offset: 29.9313 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.8	2.5-inch thick ASPHALT over 9.5-inch thick CONCRETE						
	586.0	--PAVEMENT--						
		Medium dense, white CRUSHED STONE aggregate			1	6 5 7	NP	17
		--FILL--						
	584.0							
		Very stiff, gray SILTY CLAY LOAM, trace gravel			2	3 3 4	3.61 B	19
		--L_L(%)=32, P_L(%)=19--						
		--%Gravel=2.0--						
		--%Sand=16.6--	5					
	581.5	--%Silt=52.1--						
		--%Clay=29.3--						
		--A-6(10)--						
		Very soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel			3	2 2 2	0.82 B	20
					4	2 2 1	0.33 B	24
			10					
					5	0 1 1	0.25 B	28
		--L_L(%)=33, P_L(%)=18--			6	0 0 1	0.16 B	25
		--%Gravel=3.1--						
		--%Sand=17.5--						
		--%Silt=50.4--	15					
		--%Clay=29.0--						
		--A-6(11)--						
					7	0 0 2	0.08 B	26
					8	0 1 2	0.16 B	27
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	0 0 2	0.33 B	26
					10	0 2 1	0.33 B	26
			25					
					11	0 2 1	0.16 B	25
					12	0 1 1	0.16 B	27
			30					
		--L_L(%)=34, P_L(%)=18--			13	0 2 2	0.08 B	26
		--%Gravel=5.2--						
		--%Sand=14.6--						
		--%Silt=48.4--	35					
		--%Clay=31.9--						
		--A-6(12)--						
					14	2 1 3	0.25 B	25
			40					

GENERAL NOTES

Begin Drilling: **10-14-2013** Complete Drilling: **10-14-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.04 ft
North: 1897891.66 ft
East: 1171988.13 ft
Station: 1706+38.71
Offset: 29.9313 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 1 2	0.25 B	27
	540.3	Stiff to very stiff, gray CLAY to SILTY CLAY, trace gravel						
		--L_L(%)=34, P_L(%)=18-- --%Gravel=4.0-- --%Sand=12.6-- --%Silt=47.9-- --%Clay=35.5-- --A-6(12)--	50		16	4 3 6	1.15 B	22
			55		17	5 7 10	3.12 B	16
	530.3	Hard, gray SILTY LOAM, trace gravel						
			60		18	22 32 34	4.59 S	8

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			65		19	18 26 28	6.89 S	15
		--L_L(%)=20 P_L(%)=16-- --%Gravel=1.6-- --%Sand=15.1-- --%Silt=71.3-- --%Clay=11.9-- --A-4(1)--	70		20	19 25 32	3.53 S	11
			75		21	15 18 26	7.79 S	13
		--HARD DRILLING-- *--Possible Cobbles--*						
			80		22	50 50/3	> 4.50 P	9

GENERAL NOTES

Begin Drilling: **10-14-2013** Complete Drilling: **10-14-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.04 ft
North: 1897891.66 ft
East: 1171988.13 ft
Station: 1706+38.71
Offset: 29.9313 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=23, P_L(%)=15--						
		--%Gravel=5.2--						
		--%Sand=16.7--						
		--%Silt=62.3--	85		23	25 30 32	9.59 S	11
		--%Clay=15.7--						
		--A-4(4)--						
		--HARD DRILLING--						
	499.5							
		Very dense, gray GRAVELLY SAND, trace cobbles						
		--possible underpressure groundwater bearing--			24	50 50/2	NP	12
			90					
					25	50/3	NP	11
			95					
		--HARD DRILLING--						
		--Possible Cobbles--						
	489.5							
		Very dense, gray SILTY LOAM, little gravel						
					26	50/3	NP	11
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING--						
		--Possible Cobbles--						
	484.5							
		--WEATHERED BEDROCK--						
		--ROLLER BIT REFUSAL--						
	483.5							
		Boring terminated at 103.50 ft						
			105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **10-14-2013** Complete Drilling: **10-14-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.53 ft
North: 1897833.15 ft
East: 1171993.09 ft
Station: 1706+11.06
Offset: 21.6348' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.24	4-inch thick, ASPHALT --PAVEMENT--						
	587.5	8-inch thick, CONCRETE --SUB BASE--						
		Dense, brown and gray, fine SAND, little gravel --FILL--			1	12 22 18	NP	21
					2	4 4 3	NP	21
	584.0	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	5		3	3 3 5	1.64 B	21
			10		4	2 3 4	0.82 B	19
	578.0	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=33, P_L(%)=17-- --%Gravel=2.5-- --%Sand=18.0-- --%Silt=47.9-- --%Clay=31.6-- --A-6 (11)--			5	0 0 0	0.49 B	24
			15		6	0 0 0	0.33 B	44
					7	0 0 0	0.25 B	25
			20		8	0 0 0	0.16 N/6	
		--L_L(%)=29, P_L(%)=16-- --%Gravel=2.7-- --%Sand=13.8-- --%Silt=56.2-- --%Clay=27.3-- --A-6 (9)--			9	0 0 0	0.16 B	23
			25		10	0 0 0	0.25 B	26
					11	0 0 0	0.16 B	26
			30		12	0 0 0	0.16 B	26
			35		13	0 0 0	0.16 N/6	
			40		14	0 1 2	0.41 B	25

GENERAL NOTES

Begin Drilling: **02-19-2014** Complete Drilling: **02-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.50 ft**
At Completion of Drilling: **90.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1710-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.53 ft
North: 1897833.15 ft
East: 1171993.09 ft
Station: 1706+11.06
Offset: 21.6348' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=35, P_L(%)=18-- --%Gravel=2.4-- --%Sand=12.5-- --%Silt=45.9-- --%Clay=39.2-- --A-6 (14)--	45		15	0 3 3	0.33 B	26
	541.8	Stiff to hard, gray SILTY CLAY, trace gravel						
			50		16	5 5 5	1.64 B	22
		--L_L(%)=36, P_L(%)=18-- --%Gravel=1.4-- --%Sand=8.1-- --%Silt=49.8-- --%Clay=40.7-- --A-6 (16)--	55		17	10 11 14	2.71 B	20
		--L_L(%)=35, P_L(%)=18-- --%Gravel=2.7-- --%Sand=14.6--	60		18	7 13 20	4.35 B	19
		--%Silt=46.6-- --%Clay=36.1-- --A-6 (13)--	65		19	14 19 25	5.90 S	11
	526.8	Hard, gray SILT to SILTY LOAM, trace gravel						
		--L_L(%)=21, P_L(%)=19-- --%Gravel=1.7-- --%Sand=10.5-- --%Silt=80.1-- --%Clay=7.6-- --A-4 (0)--	70		20	19 26 33	> 8.33 N/6	
			75		21	16 32 42	8.20 S	13
			80		22	50/5	NP	14

GENERAL NOTES

Begin Drilling: **02-19-2014** Complete Drilling: **02-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.50 ft**
At Completion of Drilling: **90.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.53 ft
North: 1897833.15 ft
East: 1171993.09 ft
Station: 1706+11.06
Offset: 21.6348' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=20, P_L(%)=14--						
		--%Gravel=7.6--						
		--%Sand=21.8--			23	32	9.84	11
		--%Silt=58.4--	85			40	S	
		--%Clay=12.1--				28/3		
		--A-4 (1)--						
	501.8							
		Very dense, gray GRAVELLY SAND to SANDY LOAM			24	50/3	NP	9
			90					
					25	50/3	NP	9
			95					
					26	50/5	NP	9
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	485.5							
		Strong, light gray and white, fair rock mass quality, bedded, moderately vuggy porosity, fresh DOLOSTONE, up to 11-inch beds, 6-inch spaced joints, horizontal joints with 0.05 to more than 0.2-inch infilling, hard joint wall, with greenish gray argillaceous infill, and stylolitic surfaces.	105			C O R E		
		--Run 1 - RECOVERY=93%-- --RQD=55%--			1			
			110					
	475.5							
		Boring terminated at 113.00 ft	115					
			120					

GENERAL NOTES

Begin Drilling: **02-19-2014** Complete Drilling: **02-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.50 ft**
At Completion of Drilling: **90.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1712-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.47 ft
North: 1897623.12 ft
East: 1171520.05 ft
Station: 1608+41.31
Offset: 0.4228 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.3	2-inch thick ASPHALT --PAVEMENT--						
	576.5	10-inch thick CONCRETE --PAVEMENT--						
	576.0	CRUSHED STONE --BASE COURSE--						
	574.5	Hard, black SILTY CLAY --FILL--						
		Very soft to medium stiff, CLAY to SILTY CLAY, trace gravel						
					1	7 6 6	4.26 B	12
			5		2	4 3 3	0.66 B	16
					3	1 2 3	0.49 B	16
			10		4	1 2 3	0.33 B	20
					5	1 1 2	0.16 B	25
			15		6	1 2 2	0.25 B	26
					7	1 1 2	0.16 B	25
			20		8	1 2 1	0.25 B	26
			25		9	1 2 2	< 0.25 P	25
					10	1 2 3	0.25 B	25
			30		11	1 2 3	0.33 B	16
					12	2 2 3	0.33 B	26
	543.5	Loose, gray SILT	35		13	3 5 4	NP	23
	540.7	Very stiff to hard, gray SILTY CLAY, trace gravel						
			40		14	4 6 10	2.62 B	21

GENERAL NOTES

Begin Drilling: **10-27-2013** Complete Drilling: **10-28-2013**
Drilling Contractor: **GSG** Drill Rig: **D-50 TMR [78%]**
Driller: **J&J** Logger: **C. Davis** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **57.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: ▼ **45.00 ft**

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BORING LOG 1712-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.47 ft
North: 1897623.12 ft
East: 1171520.05 ft
Station: 1608+41.31
Offset: 0.4228 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	525.7	Soft, gray CLAY with SILT lamination --Wet--	45		15	4 7 10	4.35 B	13
			50		16	4 8 12	4.02 B	20
			55		17	3 3 4	0.49 B	26
	520.5	Loose, gray, coarse SAND, some gravel --Saturated--	60		18	7 3 3	NP	16
	515.7	Hard, gray SILTY CLAY LOAM, trace gravel	65		19	16 26 46	10.25 B	13
	510.7	Very dense, gray SILTY LOAM, little gravel	70		20	34 50 50/4	NP	11
		--HARD DRILLING-- *--Possible Cobbles--*	75		21	30 32 33	NP	12
		--HARD DRILLING-- *--Possible Cobbles--*	80		22	50/1		14

GENERAL NOTES

Begin Drilling: **10-27-2013** Complete Drilling: **10-28-2013**
Drilling Contractor: **GSG** Drill Rig: **D-50 TMR [78%]**
Driller: **J&J** Logger: **C. Davis** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **57.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: ▼ **45.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1712-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.47 ft
North: 1897623.12 ft
East: 1171520.05 ft
Station: 1608+41.31
Offset: 0.4228 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
				23		50/2		11
			85					
	492.0	--DIFFICULT DRILLING-- --WEATHERED BEDROCK--						
	490.5	Strong, light gray, good rock mass quality, bedded, fresh DOLOSTONE, 2- to 18-inch beds, 2- to 18-inch spaced joints, horizontal and vertical joints with less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity, <1.5 inch vugs. --Run 1 - RECOVERY=100%-- --RQD=88%--	90		1	CORE		
			95					
	480.5	Boring terminated at 97.00 ft	100					

GENERAL NOTES

Begin Drilling: **10-27-2013** Complete Drilling: **10-28-2013**
Drilling Contractor: **GSG** Drill Rig: **D-50 TMR [78%]**
Driller: **J&J** Logger: **C. Davis** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **57.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: ▼ **45.00 ft**

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BORING LOG 1712-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.30 ft
North: 1897649.82 ft
East: 1171680.84 ft
Station: 1610+06.78
Offset: 3.2187 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.2	13.5-inch thick CONCRETE --PAVEMENT--						
	576.8	4-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	12 11 4	NP	9
	574.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			5		2	1 2 2	0.25 B	29
					3	0 0 0	0.16 B	21
			10		4	0 1 3	0.33 B	17
					5	1 1 2	0.57 B	22
			15		6	0 0 1	0.16 B	25
					7	0 0 1	0.08 B	26
			20		8	0 0 0	0.16 B	26
		--L_L(%)=35, P_L(%)=18-- --%Gravel=3.5-- --%Sand=14.0-- --%Silt=50.3-- --%Clay=32.2-- --A-6(13)--			9	0 0 0	0.16 B	22
			25		10	0 0 1	0.16 B	27
					11	0 0 2	0.33 B	23
			30		12	1 2 2	0.25 B	26
	541.6	Very stiff, gray SILTY CLAY, trace gravel			13	1 2 1	0.41 B	28
	538.8	Gray SANDY LOAM	40		14	5 13 18	2.62 B	16

GENERAL NOTES

Begin Drilling: **10-15-2013** Complete Drilling: **10-16-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **82.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1712-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.30 ft
North: 1897649.82 ft
East: 1171680.84 ft
Station: 1610+06.78
Offset: 3.2187 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Moist--						
	536.6	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel						
		--L_L(%)=27, P_L(%)=16--						
		--%Gravel=8.1--						
		--%Sand=26.9--						
		--%Silt=51.7--	45		15	9 22 26	6.23 B	15
		--%Clay=13.3--						
		--A-6(5)--						
			50		16	12 17 23	> 4.50 P	15
	526.6	Very stiff, gray CLAY						
		--L_L(%)=36, P_L(%)=19--						
		--%Gravel=0.1--						
		--%Sand=2.0--						
		--%Silt=49.4--	55		17	4 7 9	2.62 B	25
		--%Clay=48.5--						
		--A-6(17)--						
	521.6	Medium dense, gray SANDY LOAM, trace gravel						
		--Saturated--						
			60		18	4 6 9	NP	20

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	516.6	Gray, coarse SAND, some gravel						
	513.8	Very dense, gray SILTY LOAM, trace gravel	65		19	20 20 18	NP	12
		--L_L(%)=19, P_L(%)=14--						
		--%Gravel=7.4--						
		--%Sand=21.3--						
		--%Silt=59.7--	70		20	32 50/5	NP	11
		--%Clay=11.7--						
		--A-4(1)--						
			75		21	24 44 50/3	9.59 S	12
			80		22	50/3	NP	16

GENERAL NOTES

Begin Drilling: **10-15-2013** Complete Drilling: **10-16-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **82.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1712-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.30 ft
North: 1897649.82 ft
East: 1171680.84 ft
Station: 1610+06.78
Offset: 3.2187 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	496.6	Very dense, gray SILT --Saturated--						
		--%Gravel=0.0-- --%Sand=1.7-- --%Silt=91.5-- --%Clay=6.8-- --A-4(0)--	85		23	20 34 50	NP	19
		--HARD DRILLING-- *--Possible Cobbles--*						
					24	30 50/5	NP	16
		--HARD DRILLING-- *--Possible Cobbles--*	90					
	487.3	Strong, light gray, fair rock mass quality, thin bedded, fresh DOLOSTONE, 2- to 44-inch beds, 2- to 44-inch spaced joints, horizontal and vertical joints with less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity, <0.5 inch vugs.				C O R E		
		--Run 1 - RECOVERY=100%-- --RQD=71%--	95		1			
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	477.3	Boring terminated at 101.00 ft						
			105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **10-15-2013** Complete Drilling: **10-16-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&R** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **57.00 ft**
At Completion of Drilling: **82.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1712-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.78 ft
North: 1898322.61 ft
East: 1171738.21 ft
Station: 1618+05.95
Offset: 4.7838 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.8	3-inch thick, ASPHALT over 9-inch thick, CONCRETE --PAVEMENT--						
	582.5	Medium dense, grayish white SANDY GRAVEL --DRY-- --BASE COURSE--			1	12 11 9	NP	5
		Stiff, brown to gray SILTY CLAY LOAM, trace gravel --FILL--	5		2	2 4 5	1.50 N/6	8
					3	1 3 3	1.64 B	17
	576.8	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	1 3 3	0.82 B	18
					5	0 0 2	0.57 B	23
			15		6	0 1 2	0.57 B	22
					7	0 0 1	0.49 B	24
			20		8	0 1 2	0.41 B	24
			25		9	0 0 2	0.41 B	25
					10	0 0 1	0.49 B	25
					11	0 0 1	0.25 B	25
			30		12	0 0 1	0.25 B	26
			35		13	0 1 1	0.41 B	25
			40		14	0 2 3	0.66 B	26

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **08-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1712-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.78 ft
North: 1898322.61 ft
East: 1171738.21 ft
Station: 1618+05.95
Offset: 4.7838 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 2	0.33 B	20
	538.0							
		Stiff to very stiff, gray SILTY CLAY, trace gravel	50		16	3 6 9	1.00 P	21
			55		17	2 5 10	2.87 B	17
	528.0							
		Medium dense, gray SILTY LOAM, trace gravel	60		18	5 8 13	NP	21
	523.0							
		Medium dense, gray fine SAND, trace gravel --Dry-	65		19	10 8 13	NP	13
	518.0							
		Dense, gray SILTY LOAM, trace gravel --Dry-	70		20	13 15 28	NP	13
			75		21	14 17 26	NP	13
			80		22	18 27 50/4	NP	23

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **08-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1712-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.78 ft
North: 1898322.61 ft
East: 1171738.21 ft
Station: 1618+05.95
Offset: 4.7838 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	80/6	NP	13
			90		24	80/4	NR	
	493.6	Very dense, gray, very fine to fine SAND --possible water bearing--						
			95		25	90/6	NP	10
					26	100/5	NR	
	484.8		100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Very dense, greenish gray, shaly DOLOSTONE; moist to wet	105		27	100/4	NP	21
	474.8		110		28	100/3	NR	
		Boring terminated at 111.00 ft	115					
			120					

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **08-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1714-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.37 ft
North: 1897818.98 ft
East: 1171530.45 ft
Station: 1410+01.69
Offset: 15.0642 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.2	2-inch thick ASPHALT --PAVEMENT--						
	574.2	12-inch thick CONCRETE --PAVEMENT--						
	573.4	10-inch thick CRUSHED STONE --BASE COURSE--						
	572.4	Brown SILTY LOAM --FILL--						
		Medium dense, gray SANDY LOAM --FILL--	5		1	13 19 9	NP	5
					2	7 6 5	NP	13
	569.9	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.57 B	21
			10		4	1 2 2	0.57 B	21
					5	0 1 2	0.41 B	25
			15		6	0 1 1	0.16 B	27
					7	0 1 1	0.25 B	27
			20		8	1 1 1	0.25 B	27
			25		9	0 1 2	0.25 B	26
					10	1 1 1	0.25 B	26
					11	1 1 2	0.33 B	26
			30		12	1 2 2	0.49 B	28
	543.6	Stiff, gray SILTY CLAY, trace gravel						
			35		13	3 6 8	1.00 B	15
			40		14	6 5 13	1.50 P	23

GENERAL NOTES

Begin Drilling: **10-27-2013** Complete Drilling: **10-28-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1714-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.37 ft
North: 1897818.98 ft
East: 1171530.45 ft
Station: 1410+01.69
Offset: 15.0642 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	533.6	Hard, gray SILTY CLAY LOAM, trace gravel						
			45		15	7 10 24	7.46 B	17
			50		16	9 11 18	4.67 N/6	27
	523.6	Medium dense, gray SILTY LOAM --Saturated--						
			55		17	6 5 5	NP	22
	518.6	Dense, gray GRAVELLY SAND --Saturated--						
			60		18	18 40 8	NP	14
	513.6	Hard. gray SILTY CLAY LOAM, trace gravel						
			65		19	12 16 33	5.66 S	15
	508.6	Very dense, gray SILTY LOAM, trace gravel						
			70		20	22 27 33	4.43 S	11
			75		21	15 27 35	NP	10
	498.6	Medium dense to dense, gray SILT --Saturated--						
			80		22	29 50/5	NP	19

GENERAL NOTES

Begin Drilling: **10-27-2013** Complete Drilling: **10-28-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1714-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.37 ft
North: 1897818.98 ft
East: 1171530.45 ft
Station: 1410+01.69
Offset: 15.0642 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	15 8 15	NP	23
	488.9	Very dense, gray GRAVELLY SANDY LOAM						
			90		24	50/5	NP	14
		--HARD DRILLING-- *--Possible Cobbles--*						
	484.9	Strong, light gray, fair rock quality, bedded DOLOSTONE, beds up to 12 inch, vuggy, joint spacing up to 12 inch, joints with less than 0.2 inch or no infilling, and stylolitic surfaces. --Run 1 - RECOVERY= 100%-- --RQD= 63%--	95		1	CORE		
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	474.9	Boring terminated at 100.50 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **10-27-2013** Complete Drilling: **10-28-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1714-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.93 ft
North: 1897789.86 ft
East: 1171431.16 ft
Station: 1408+97.61
Offset: 6.5640 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick, black SILTY LOAM --TOPSOIL--						
	587.7	Hard, brown and gray SILTY CLAY LOAM, trace gravel and brick fragments --FILL--			1	8 20 20	4.50 P	15
			5		2	4 6 8	4.10 B	26
	582.7	Stiff, gray SILTY CLAY, trace gravel			3	3 3 4	1.07 B	22
	580.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	2 2 4	0.57 B	23
			10		5	1 2 2	0.33 B	25
			15		6	1 2 2	0.16 B	26
					7	2 2 3	0.41 B	21
			20		8	1 2 2	0.25 B	27
	560.9	Very stiff (2.0P), gray SILTY CLAY LOAM, little gravel	25		9	1 1 2	0.16 B	27
	559.9	Loose, gray LOAM, some gravel			10	1 1 2	0.25 P	24
					11	1 2 3	0.25 B	28
			30		12	4 5 3	NP	12
	557.2	Soft medium stiff, gray CLAY to SILTY CLAY, trace gravel			13	2 2 4	0.25 P	27
			35		14	2 2 3	0.83 N/6	28
			40					

GENERAL NOTES

Begin Drilling: **04-18-2014** Complete Drilling: **04-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1714-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.93 ft
North: 1897789.86 ft
East: 1171431.16 ft
Station: 1408+97.61
Offset: 6.5640 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	547.2	Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel	45		15	6 7 7	3.03 B	16
			50		16	4 6 8	2.30 B	23
			55		17	6 10 15	4.10 B	15
			60		18	9 16 23	5.33 B	20
	527.2	Medium stiff, gray CLAY	65		19	4 4 4	0.90 B	29
	522.2	Medium dense, gray SILT						
	519.9	Medium dense, gray SANDY LOAM, trace gravel	70		20	9 9 10	NP	20
	517.2	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	75		21	12 28 29	8.69 B	15
			80		22	16 23 31	6.07 B	13

GENERAL NOTES

Begin Drilling: **04-18-2014** Complete Drilling: **04-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1714-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.93 ft
North: 1897789.86 ft
East: 1171431.16 ft
Station: 1408+97.61
Offset: 6.5640 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	504.9	Very dense, gray SILTY LOAM, trace gravel and cobbles	85		23	21 35 50/1"	4.50 P	13
		--HARD DRILLING-- *--Possible Cobbles--*	90		1			
		--HARD DRILLING-- *--Possible Cobbles--*	95					
	492.9	--VERY HARD DRILLING-- --WEATHERED BEDROCK--						
	490.9	Strong, light gray, fair rock quality, bedded DOLOSTONE, beds up to 12 inch, vuggy, 6 inch joint spacing, joints with less than 0.2 inch or no infilling, and stylolitic surfaces.	100					
		--Run 1 - RECOVERY= 90%-- --RQD= 62%--			2			
	483.9	Boring terminated at 105.00 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **04-18-2014** Complete Drilling: **04-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1715-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.39 ft
North: 1898143.12 ft
East: 1171931.11 ft
Station: 1211+64.12
Offset: 7.8377 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff to very stiff, brown SILTY CLAY LOAM						
		--FILL--			1	13 12 14	2.87 B	18
			5		2	4 3 5	1.00 P	25
	582.9							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 2	0.33 B	23
			10		4	1 1 2	0.41 B	23
					5	1 2 2	0.16 B	23
			15		6	1 2 3	0.49 B	22
					7	1 2 2	0.57 B	25
			20		8	1 1 3	0.41 B	25
			25		9	1 1 2	0.16 B	26
					10	1 1 2	0.33 B	24
					11	1 1 2	0.33 B	26
			30		12	2 1 2	0.33 B	27
			35		13	1 2 3	0.33 B	25
			40		14	2 3 5	0.33 B	25

GENERAL NOTES

Begin Drilling: **03-04-2014** Complete Drilling: **03-06-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1715-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.39 ft
North: 1898143.12 ft
East: 1171931.11 ft
Station: 1211+64.12
Offset: 7.8377 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 2	0.33 B	29
	541.6	Very stiff hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			50		16	7 10 20	3.20 B	18
			55		17	12 15 15	6.64 S	13
			60		18	28 26 24	6.56 S	12
	519.4	Very dense, gray SILTY LOAM, trace gravel --Moist--	65		19	26 33 48	> 8.33 N/6	16
			70		20	26 46 28/3	NP	16
	516.6	Hard, gray SILTY CLAY LOAM, trace gravel --L_L(%)=29, P_L(%)=16-- --%Gravel=1.6-- --%Sand=10.8-- --%Silt=63.8-- --%Clay=23.7-- --A-6 (10)--	75		21	17 30 48	> 8.33 N/6	15
	511.6	Very dense, gray SILTY LOAM, trace gravel						
			80		22	50/4	NP	9

GENERAL NOTES

Begin Drilling: **03-04-2014** Complete Drilling: **03-06-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.39 ft
North: 1898143.12 ft
East: 1171931.11 ft
Station: 1211+64.12
Offset: 7.8377 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
85				23	35 45 20/1	NP	17
90		--L_L(%)=29, P_L(%)=16-- --%Gravel=4.7-- --%Sand=10.1-- --%Silt=57.1-- --%Clay=28.0- --A-6 (9)--		24	24 50/5	NP	16
95				25	37 50/5	NP	23
		--HARD DRILLING-- *--Possible Cobbles--*					
	491.4	Very dense, gray GRAVELLY SAND --possible water bearing--		26	50/3	NP	10
100							
105		--HARD DRILLING-- *--Possible Cobbles--*					
	485.4	--AUGER REFUSAL-- Boring terminated at 103.00 ft					
110							
115							
120							

GENERAL NOTES

Begin Drilling: **03-04-2014** Complete Drilling: **03-06-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.98 ft
North: 1898224.57 ft
East: 1171745.64 ft
Station: 1105+89.73
Offset: 39.7965 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	578.8	2-inch thick ASPHALT --PAVEMENT--					
	578.0	10-inch thick CONCRETE --PAVEMENT--					
		Loose, light brown CRUSHED STONE					
	576.0	--BASE COURSE--					
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel					
				1	4 5 4	NP	10
				2	0 1 2	0.82 B	23
5							
				3	2 2 3	0.41 B	19
				4	2 2 3	0.49 B	22
10							
				5	1 2 2	0.74 B	20
				6	0 1 2	0.33 B	23
15							
				7	1 1 2	0.33 B	26
				8	1 1 2	0.25 B	26
20							
				9	0 1 2	0.25 B	27
				10	1 1 2	0.50 N/6	
25							
				11	0 2 2	0.41 B	26
				12	1 1 2	0.57 B	26
30							
				13	2 2 2	0.33 B	28
35							
				14	4 6 9	0.67 B	18
40							

GENERAL NOTES

Begin Drilling: **02-23-2014** Complete Drilling: **03-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **3.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: ▼ **72.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.98 ft
North: 1898224.57 ft
East: 1171745.64 ft
Station: 1105+89.73
Offset: 39.7965 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	537.2	Very stiff, gray SILTY CLAY LOAM, trace gravel	45		15	7 7 7	3.36 B	22
			50		16	6 10 12	2.54 B	16
	527.2	Dense, gray SILT --Wet--	55		17	14 16 18	NP	16
	522.2	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	60		18	18 24 27	8.19 S	12
	507.2	Very dense, gray SILTY LOAM, trace to some gravel --WET--	65		19	20 31 42	4.59 S	14
			70		20	20 50/4	5.74 S	13
			75		21	30 50/4	NP	10
		--HARD DRILLING-- *--Possible Cobbles--*	80		22	50/5	NP	12

GENERAL NOTES

Begin Drilling: **02-23-2014** Complete Drilling: **03-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **3.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **24 hours**
Depth to Water: ▼ **72.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.98 ft
North: 1898224.57 ft
East: 1171745.64 ft
Station: 1105+89.73
Offset: 39.7965 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- *--Possible Cobbles--*			23	50/3	NP	
			85					
		--HARD DRILLING-- *--Possible Cobbles--*						
					24	50/3	NP	10
			90					
	488.0	--VERY HARD, STEADY DRILLING-- --WEATHERED BEDROCK--						
	486.0	--ROLLER BIT REFUSAL--						
		Boring terminated at 93.00 ft						
			95					
			100					

GENERAL NOTES

Begin Drilling **02-23-2014** Complete Drilling **03-23-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **3.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **24 hours**
Depth to Water ▼ **72.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.74 ft
North: 1898289.14 ft
East: 1171492.75 ft
Station: 1216+42.65
Offset: 33.3447 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick ASPHALT --PAVEMENT--						
	573.5							
	573.2	4-inch thick CRUSHED STONE --BASE COURSE--						
		Medium dense, brown SANDY GRAVEL --FILL--			1	5 6 6	NP	
	571.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	4 2 3	0.25 P	26
			5		3	2 1 3	0.25 B	24
			10		4	1 1 2	0.41 B	25
					5	0 0 2	0.25 B	25
			15		6	1 2 1	0.49 B	25
					7	1 1 1	0.33 B	27
			20		8	0 0 0	0.25 B	26
			25		9	1 1 2	0.16 B	27
					10	0 0 1	0.16 B	25
			30		11	0 0 0	0.16 B	26
					12	1 2 3	0.49 B	27
	538.0	Very stiff to hard, gray SILTY CLAY, trace gravel	35		13	1 3 4	0.74 B	19
			40		14	6 8 10	5.41 B	15

GENERAL NOTES

Begin Drilling: **03-19-2014** Complete Drilling: **03-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **2.50 ft**
At Completion of Drilling: **62.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.74 ft
North: 1898289.14 ft
East: 1171492.75 ft
Station: 1216+42.65
Offset: 33.3447 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 8 14	3.69 B	19
		--L_L(%)=36, P_L(%)=18-- --%Gravel=0.5-- --%Sand=3.1-- --%Silt=59.8-- --%Clay=36.7-- --A-6 (18)--	50		16	5 9 10	2.87 B	24
	523.0	Medium stiff, gray CLAY, trace gravel						
			55		17	4 5 6	0.75 P	27
	518.0	Hard, gray SILTY CLAY LOAM, trace gravel						
			60		18	10 12 16	9.35 S	15

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.0	Gray SILT, trace gravel --Wet--						
			65		19	16 20 21	NP	20
	510.0	Hard (>4.5P), gray SILTY CLAY LOAM, trace gravel						
	508.0	Very dense, gray SILTY LOAM, little to some gravel						
			70		20	50/5	NP	9
		--HARD DRILLING-- *--Possible Cobbles--*						
			75		21	50/5	NP	13
	498.0	Hard, gray SILTY CLAY LOAM, trace gravel						
			80		22	33 50/4	7.30 S	10

GENERAL NOTES

Begin Drilling: **03-19-2014** Complete Drilling: **03-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **2.50 ft**
At Completion of Drilling: **62.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1715-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.74 ft
North: 1898289.14 ft
East: 1171492.75 ft
Station: 1216+42.65
Offset: 33.3447 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	490.7	Very dense, gray SILTY LOAM to SILT, trace gravel	85		23	13 19 28	NP	22
		--Wet-- --L_L(%)=NP, P_L(%)=NP-- --%Gravel=0.1-- --%Sand=1.1-- --%Silt=92.6-- --%Clay=6.3-- --A-4 (0)--						
					24	50/2	NP	19
			90					
	483.2	--DIFFICULT DRILLING-- --WEATHERED BEDROCK--						
	480.7	--ROLLER BIT REFUSAL-- Boring terminated at 94.00 ft						
			95					
			100					

GENERAL NOTES

Begin Drilling: **03-19-2014** Complete Drilling: **03-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **2.50 ft**
At Completion of Drilling: **62.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1718-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.10 ft
North: 1898363.96 ft
East: 1171365.16 ft
Station: 6404+45.17
Offset: 0.9314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.1	12-inch thick, dark brown SILTY LOAM						
		--TOPSOIL--						
		Medium dense, brown SILTY LOAM, trace gravel and brick fragments			1	5 6 7	NP	15
	581.1	--FILL--						
		Stiff, brown SILTY CLAY LOAM, trace gravel						
		--FILL--	5		2	3 3 5	1.64 B	19
					3	2 2 4	1.00 N/6	19
	576.1	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			10		4	0 1 2	0.41 B	22
					5	0 1 2	0.50 N/6	22
			15		6	0 1 2	0.49 B	22
					7	0 1 2	0.41 B	25
			20		8	0 2 2	0.49 B	24
			25		9	0 0 3	0.49 B	23
					10	0 0 1	0.33 B	26
					11	0 0 1	0.25 B	27
			30		12	0 0 2	0.33 B	25
		--L_L(%)=33, P_L(%)=17-- --%Gravel=5.2-- --%Sand=16.2-- --%Silt=19.8--	35		13	1 2 3	0.33 B	26
			40		14	0 1 3	0.74 B	22

GENERAL NOTES

Begin Drilling: **04-01-2014** Complete Drilling: **04-01-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **82.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 1718-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.10 ft
North: 1898363.96 ft
East: 1171365.16 ft
Station: 6404+45.17
Offset: 0.9314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=28.7-- --A-6 (11)--	45		15	1 2 4	0.82 B	25
	537.4	Very stiff, gray SILTY CLAY, trace gravel	50		16	3 4 9	3.28 B	15
			55		17	3 6 11	2.83 N/6	22
			60		18	4 6 8	2.05 B	22
	522.4	Medium dense, gray SILTY LOAM	65		19	7 8 11	NP	18
	517.4	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	70		20	17 22 30	4.10 B	15
		--L_L(%)=25, P_L(%)=17-- --%Gravel=7.3-- --%Sand=6.7-- --%Silt=71.6-- --%Clay=14.3-- --A-4 (5)--	75		21	17 24 50/2"	9.85 S	14
	507.4	Gray GRAVELLY SAND						
	505.1	Very dense, gray SILTY LOAM, occasional SAND lenses	80		22	20 30 50/2"	NP	13

GENERAL NOTES

Begin Drilling: **04-01-2014** Complete Drilling: **04-01-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **82.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1718-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.10 ft
North: 1898363.96 ft
East: 1171365.16 ft
Station: 6404+45.17
Offset: 0.9314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	502.4	Very dense, gray, fine SAND						
			85		23	50/5"	NP	15
	497.9	Hard, gray SILTY CLAY						
			90		24	12 20 34	6.15 B	21
	492.4	Very dense, gray SILT						
			95		25	20 30 50/4"	NP	19
			100		26	25 35 45	NP	22
	480.6	--ROLLER BIT REFUSAL-- Boring terminated at 103.50 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **04-01-2014** Complete Drilling: **04-01-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **82.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2054-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.94 ft
North: 1899809.22 ft
East: 1171258.81 ft
Station: 8411+15.30
Offset: 16.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.7	3.5-inch thick ASPHALT						
	592.9	8.5-inch thick CONCRETE --PAVEMENT--						
		Loose, gray CRUSHED STONE --BASE COURSE--			1	3 2 3	NP	6
	590.9	Loose to medium dense, brown, coarse SAND, trace gravel; moist --FILL--			2	4 4 3	NP	9
			5		3	2 6 12	NP	10
					4	50/5	NP	3
	583.9		10					
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	2 3 3	0.89 B	23
		--L_L(%)=42, P_L(%)=19-- --%Gravel=1.2-- --%Sand=8.5-- --%Silt=43.0-- --%Clay=47.3-- --A-7-6 (21)--	15		6	2 3 3	0.66 B	24
					7	4 3 4	0.57 B	25
			20		8	2 3 3	0.66 B	22
			25		9	0 1 1	0.66 B	21
					10	1 2 2	0.49 B	24
					11	0 0 1	0.41 B	25
			30		12	1 1 1	0.35 B	27
			35		13	0 1 2	0.33 B	26
			40		14	1 2 2	0.49 B	23

GENERAL NOTES

Begin Drilling: **09-21-2015** Complete Drilling: **09-22-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **K&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 20', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 10 ft**
Time After Drilling: **24 hours**
Depth to Water: **24.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2054-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.94 ft
North: 1899809.22 ft
East: 1171258.81 ft
Station: 8411+15.30
Offset: 16.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 2 3	0.90 B	25
			50		16	1 3 4	0.66 B	28
	542.2	Stiff to very stiff, gray SILTY CLAY, trace gravel						
			55		17	4 5 7	1.97 B	21
			60		18	4 5 7	1.80 B	18
	522.2	Dense, gray SANDY LOAM, trace gravel; wet	65		19	4 9 11	3.20 B	20
			70		20	7 7 10	2.13 B	25
			75		21	10 15 24	NR	
			80		22	15 15 17	NP	12

GENERAL NOTES

Begin Drilling: **09-21-2015** Complete Drilling: **09-22-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **K&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 20', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 10 ft**
Time After Drilling: **24 hours**
Depth to Water: **24.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2054-B-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.94 ft
North: 1899809.22 ft
East: 1171258.81 ft
Station: 8411+15.30
Offset: 16.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	512.2	Very dense, gray GRAVELLY SAND; wet to saturated						
		--HARD DRILLING-- *possible cobbles*	85		23	26 28 50/4	NP	13
		losing mud						
					24	50/5	NP	13
			90					
		--HARD DRILLING-- *possible cobbles*						
					25	70 50/4	NP	13
			95					
		lost 600 gl of mud between 87.0 and 97.5 ft			26	60 50/4	NP	17
	496.4	Boring terminated at 97.50 ft						
			100					

GENERAL NOTES

Begin Drilling: **09-21-2015** Complete Drilling: **09-22-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **K&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 20', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 10 ft**
Time After Drilling: **24 hours**
Depth to Water: **24.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2054-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.01 ft
North: 1899869.30 ft
East: 1171404.59 ft
Station: 8412+62.47
Offset: 73.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.6	5-inch thick ASPHALT 10-inch thick CONCRETE						
	577.8	--PAVEMENT-- Very dense, gray CRUSHED STONE --BASE COURSE--			1	21 29 25	NP	4
	575.8	Stiff, gray SILTY CLAY LOAM, trace gravel --FILL--	5		2	6 4 6	1.80 B	20
	573.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 0 1	0.33 B	23
			10		4	0 2 3	0.57 B	18
					5	1 2 2	0.82 B	20
			15		6	0 2 3	0.82 B	24
					7	1 2 2	0.82 B	24
			20		8	0 1 2	0.57 B	24
			25		9	0 0 0	0.41 B	25
					10	0 0 1	0.41 B	26
			30		11	0 1 1	0.33 N/6	
					12	4 5 5	0.90 B	25
	542.3	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	1 2 2	0.74 B	31
			40		14	3 3 5	1.80 B	22

GENERAL NOTES

Begin Drilling: **09-15-2015** Complete Drilling: **09-20-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **K&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 5 ft**
Time After Drilling: **120 hours**
Depth to Water: **2.00 ft**

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BORING LOG 2054-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.01 ft
North: 1899869.30 ft
East: 1171404.59 ft
Station: 8412+62.47
Offset: 73.45 LT

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
45			--L_L(%)=27, P_L(%)=16-- --%Gravel=4.4-- --%Sand=21.2-- --%Silt=54.9-- --%Clay=19.5-- --A-6 (6)--		15	6 6 6	1.89 B	18
50					16	5 8 13	3.61 B	21
55					17	11 12 11	4.84 B	14
	522.3		Medium stiff, gray CLAY to SILTY CLAY, trace gravel					
60					18	0 0 1	0.74 B	27
	517.3		Very stiff, gray SILTY CLAY LOAM, trace gravel					
65					19	5 14 15	2.50 P	12
	512.3		Very dense, gray GRAVELLY SAND to SANDY LOAM; wet to saturated					
					20	50/5	NP	15
70			--possible under pressure groundwater bearing layer-- --hard drilling, 69.5 to 73.5 feet-- *possible cobbles*					
75					21	34 37 50/5	NP	13
			--hard drilling, 73.5 to 78.5 feet-- *possible cobbles*					
80					22	50/4	NP	15

GENERAL NOTES

Begin Drilling: **09-15-2015** Complete Drilling: **09-20-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **K&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 5 ft**
Time After Drilling: **120 hours**
Depth to Water: **2.00 ft**

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BORING LOG 2054-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.01 ft
North: 1899869.30 ft
East: 1171404.59 ft
Station: 8412+62.47
Offset: 73.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	497.8	Very dense, gray, fine SAND; saturated						
			85		23	32 47 47	NP	19
	492.3	Very dense, gray SILT; saturated						
			90		24	18 30 42	NP	24
	487.3	Very dense, gray GRAVELLY SAND; saturated						
			95		25	38 42 50/4	NP	11
	483.0	--very hard, steady drilling-- --WEATHERED BEDROCK--						
	481.0	Strong, light gray, very poor rock quality, bedded, slightly vuggy DOLOSTONE, highly fragmented, 2-inch joint spacing,						
	479.0		100		1	CORE		
		joints with less than 0.2 inch or no infilling, hard joint walls --Run 1 -RECOVERY= 83%-- --RQD= 25%--						
		Boring terminated at 100.00 ft						
			105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **09-15-2015** Complete Drilling: **09-20-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **K&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 5 ft**
Time After Drilling: **120 hours**
Depth to Water: **2.00 ft**

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BORING LOG 2054-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.44 ft
North: 1899739.53 ft
East: 1171580.53 ft
Station: 8414+35.27
Offset: 60.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, ASPHALT --PAVEMENT--						
	577.9							
		Very dense, white and brown SANDY GRAVEL --AGGREGATE BASE--			1	16 33 18	NP	3
	575.7							
		Very stiff, gray SILTY CLAY LOAM, trace gravel	5		2	10 4 4	3.49 B	15
	573.9							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 2	0.41 B	19
			10		4	3 3 2	0.90 B	16
					5	0 0 2	0.25 B	22
			15		6	0 0 0	0.33 B	25
					7	0 0 0	0.16 B	26
			20		8	0 0 0	0.33 B	26
			25		9	0 0 2	0.16 B	26
					10	0 0 1	0.33 B	25
					11	0 1 2	0.41 B	26
			30		12	2 6 11	0.25 P	21
		--L_L(%)=37, P_L(%)=19-- --%Gravel=1.8-- --%Sand=13.8-- --%Silt=48.4-- --%Clay=35.9-- --A-6 (15)--	35		13	0 1 3	0.66 B	26
			40		14	2 3 4	0.90 B	20

GENERAL NOTES

Begin Drilling: **09-13-2015** Complete Drilling: **09-14-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **66.75 ft**
At Completion of Drilling: **not observed**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2054-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.44 ft
North: 1899739.53 ft
East: 1171580.53 ft
Station: 8414+35.27
Offset: 60.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 4 9	0.75 P	21
	532.7	Stiff to very stiff, gray SILTY CLAY, trace gravel						
			50		16	4 7 10	3.36 B	16
			55		17	5 8 11	3.85 B	20
			60		18	5 7 8	2.50 N/6	
	515.6	Dense, gray SANDY LOAM; wet *interbedded SILT*	65		19	6 14 25	NP	13
		--hard drilling--						
	512.7	Very dense, gray SILT; wet to saturated						
			70		20	38 50/5	NP	16
			75		21	30 50/5	NP	18
			80		22	26 36 44	NP	25

GENERAL NOTES

Begin Drilling: **09-13-2015** Complete Drilling: **09-14-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **66.75 ft**
At Completion of Drilling: **not observed**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2054-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.44 ft
North: 1899739.53 ft
East: 1171580.53 ft
Station: 8414+35.27
Offset: 60.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	31 37 36	NP	17
	492.7							
		Very dense, gray SANDY LOAM; saturated	90		24	22 37 40	NP	17
	487.7							
		Very dense, gray SILT; saturated	95		25	16 29 31	NP	16
					26	50/5	NP	17
	479.4		100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Strong, light gray, very poor rock quality, bedded, highly fragmented DOLOSTONE, 1-inch joint spacing, vertical and horizontal joints with more than 0.2 inch or no infilling, vuggy, with occasional stylolitic surfaces.						
		--Run 1 -RECOVERY= 55%-- --RQD= 0%--						
		--poor rock RQD due to drilling issues--	105		1			
	469.4		110					
		Boring terminated at 110.00 ft						
			115					
			120					

GENERAL NOTES

Begin Drilling: **09-13-2015** Complete Drilling: **09-14-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&N** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **66.75 ft**
At Completion of Drilling: **not observed**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 595.62 ft
North: 1898407.45 ft
East: 1171767.90 ft
Station: 8152+79.03
Offset: 6.0657 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick CONCRETE --PAVEMENT--						
	594.2							
		9-inch thick CRUSHED STONE --BASE COURSE--			1	5 4 3	NP	6
	593.1							
		Medium dense, black and gray LOAM, trace gravel --FILL--			2	6 12 17	NP	11
			5					
	588.8				3	5 7 7	NP	12
		Very stiff (2.50 - 2.75 P), brown and gray SILTY CLAY LOAM with fine sand lenses, trace gravel --FILL--						
	586.6							
		Dense, black and gray LOAM to SILTY LOAM, trace gravel, brick, and wood --FILL--	10		4	3 4 28	NP	11
	584.4	*boring offset 3 feet south due to obstruction*						
		Stiff, gray SILTY CLAY LOAM, trace gravel			5	2 3 4	1.64 B	22
			15		6	3 3 3	1.07 B	24
	580.1							
		Gray SILTY LOAM						
	579.1							
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	1 2 1	0.66 B	18
			20		8	2 2 2	0.49 B	21
			25		9	2 2 2	0.41 B	23
					10	2 2 1	0.49 B	23
					11	1 2 2	0.57 B	25
			30		12	1 1 2	0.49 B	24
			35		13	1 1 2	0.42 B	25
			40		14	1 2 1	0.33 B	27

GENERAL NOTES

Begin Drilling: **04-22-2013** Complete Drilling: **04-29-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 2055-B-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 595.62 ft
North: 1898407.45 ft
East: 1171767.90 ft
Station: 8152+79.03
Offset: 6.0657 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 2	0.50 P	25
			50		16	2 2 2	0.41 B	26
	543.9	Medium stiff to hard, gray SILTY CLAY to CLAY, trace to little gravel						
		thin, gray medium sand lenses	55		17	2 3 10	0.82 B	17
			60		18	4 5 9	1.00 P	23
	521.5	Gray SILTY LOAM	65		19	4 9 13	3.61 B	14
			70		20	5 10 15	4.10 B	22
			75		21	5 9 10	3.03 B	18
	518.9	Hard, gray SILTY CLAY LOAM, trace gravel and seams of fine sand to silt						
			80		22	20 27 30	7.13 B	13

GENERAL NOTES

Begin Drilling: **04-22-2013** Complete Drilling: **04-29-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 2055-B-02

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Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
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Station: 8152+79.03
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Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=26, P_L(%)=14--						
		--%Gravel=6.2--						
		--%Sand=22.1--						
		--%Silt=52.6--	85		23	19 21 27	5.33 B	13
		--%Clay=19.1--						
		--A-6 (6)--						
	506.9							
		Very dense, gray, medium SAND, trace gravel						
		--Moist--	90		24	24 37 37	NP	14
	503.6							
		Hard, gray SILTY CLAY LOAM, some gravel						
					25	50/3"	4.50 P	10
			95					
	498.6							
		--HARD DRILLING--						
		Possible Boulders						
	497.6	--AUGER REFUSAL--						
		Boring terminated at 98.00 ft						
			100					

GENERAL NOTES

Begin Drilling: **04-22-2013** Complete Drilling: **04-29-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 2055-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.03 ft
North: 1898462.94 ft
East: 1171413.63 ft
Station: 8149+26.26
Offset: 58.3388 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.5	6-inch thick, black SILTY CLAY LOAM --TOPSOIL--						
		Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel and brick --FILL--			1	7 9 9	> 4.50 P	14
			5		2	3 4 4	2.46 B	14
					3	4 5 5	2.50 P	16
	571.0	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	1 2 2	0.49 B	24
			10		5	0 2 1	0.41 B	25
			15		6	0 2 2	0.57 B	26
					7	0 1 2	0.49 B	26
			20		8	0 1 2	0.41 B	26
			25		9	1 1 1	0.41 B	27
					10	1 1 1	0.49 B	27
					11	0 2 1	0.49 B	27
			30		12	0 2 1	0.49 B	27
	542.3	Medium stiff to very stiff, gray SILTY CLAY to CLAY, trace gravel	35		13	1 1 2	0.49 B	26
			40		14	2 2 4	0.74 B	20

GENERAL NOTES

Begin Drilling: **05-15-2013** Complete Drilling: **05-16-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.03 ft
North: 1898462.94 ft
East: 1171413.63 ft
Station: 8149+26.26
Offset: 58.3388 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	522.3	Medium dense, gray SILT	45		15	3 7 9	2.30 B	16
			50		16	4 8 11	2.46 B	18
			55		17	3 7 8	2.30 B	24
			60		18	2 4 6	NP	23
	517.3	Hard, gray SILTY CLAY LOAM, trace gravel	65		19	13 18 30	> 4.50 P	16
			70		20	13 23 32	> 10.25 B	15
	507.3	Very dense, gray SILT to SILTY LOAM, trace gravel	75		21	32 50/5"	NP	10
			80		22	40 50/2"	NP	9

GENERAL NOTES

Begin Drilling: **05-15-2013** Complete Drilling: **05-16-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.03 ft
North: 1898462.94 ft
East: 1171413.63 ft
Station: 8149+26.26
Offset: 58.3388 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	26 38 44	NP	19
	492.3	Hard, gray SILTY CLAY LOAM						
			90		24	18 21 35	8.20 B	14
	487.3	Very dense, gray SANDY GRAVEL with dolostone clasts						
	485.0	Probably weathered DOLOSTONE			25	48 50/1"	NP	13
	484.0	--AUGER REFUSAL--	95					
		Boring terminated at 95.00 ft	100					

GENERAL NOTES

Begin Drilling: **05-15-2013** Complete Drilling: **05-16-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.69 ft
North: 1898363.22 ft
East: 1171499.16 ft
Station: 8150+09.25
Offset: 43.5063 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.7	5-inch thick ASPHALT over 7-inch thick CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	5 9 9	NP	4
	572.7	Stiff, gray SILTY CLAY						
			5		2	3 2 3	1.07 B	20
	570.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
					3	1 2 2	0.57 B	25
			10		4	1 1 2	0.57 B	24
					5	0 1 2	0.57 B	17
			15		6	0 2 2	0.66 B	25
		--L_L(%)=35, P_L(%)=15-- --%Gravel=4.3-- --%Sand=15.2-- --%Silt=48.0-- --%Clay=32.4-- --A-6 (15)--			7	0 1 2	0.57 B	26
			20		8	0 2 2	0.66 B	26

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			25		9	0 2 2	0.57 B	26
					10	0 1 2	0.49 B	25
					11	0 1 2	0.57 B	25
	547.7	Medium dense, gray, coarse SAND, little gravel	30		12	2 5 7	NP	15
	543.7	Medium dense, gray SANDY GRAVEL			13	8 8 9	NP	15
	540.9	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM to LOAM, trace to some gravel	35					
		--L_L(%)=35, P_L(%)=15-- --%Gravel=3.6-- --%Sand=9.8-	40		14	4 7 10	2.46 B	21

GENERAL NOTES

Begin Drilling: **05-19-2013** Complete Drilling: **05-20-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 2055-B-04

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.69 ft
North: 1898363.22 ft
East: 1171499.16 ft
Station: 8150+09.25
Offset: 43.5063 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=50.5--						
		--%Clay=36.1--						
		--A-6 (16)--						
	513.9	Hard, gray SILTY CLAY LOAM, trace gravel						
		--L_L(%)=22, P_L(%)=13--						
		--%Gravel=15.4--						
		--%Sand=31.5--						
		--%Silt=41.5--	45		15	5 8 10	4.92 B	13
		--%Clay=11.6--						
		--A-4 (2)--						
	508.9	Very dense, gray SILT to SILTY LOAM, trace to some gravel						
			50		16	4 6 8	2.62 B	22
			55		17	5 8 12	3.36 B	10
	518.9	Medium dense, gray SILT						
			60		18	4 5 8	NP	25
			65		19	12 21 29	9.89 B	14
			70		20	23 50/4"	NP	13
			75		21	36 50/3"	NP	12
			80		22	50/5"	NP	9

GENERAL NOTES

Begin Drilling **05-19-2013** Complete Drilling **05-20-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
At Completion of Drilling **mud in the borehole**
Time After Drilling **NA**
Depth to Water **NA**

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BORING LOG 2055-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.69 ft
North: 1898363.22 ft
East: 1171499.16 ft
Station: 8150+09.25
Offset: 43.5063 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		85		23	34 42 45	NP	22
		90		24	22 40 45	NP	19
483.7	--HARD DRILLING-- Boulders, Sandy Gravel						
		95		25	50/2"	NR	
478.7	--AUGER REFUSAL-- Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 18-inch beds, 1- to 18-inch spaced joints, horizontal and oblique joints with less than 0.2- to 3-inch greenish gray silty infilling, hard joint wall,	100			CORE		
	with stylolitic surfaces, and moderately vuggy porosity. --Run 1 - RECOVERY = 95% RQD = 53%	105		1			
	--Run 1 - RECOVERY = 98% --RQD = 53%	110		2	CORE		
458.7	Boring terminated at 117.00 ft	115					
		120					

GENERAL NOTES

Begin Drilling: **05-19-2013** Complete Drilling: **05-20-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.97 ft
North: 1898475.15 ft
East: 1171596.44 ft
Station: 8151+09.33
Offset: 65.9333 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.8	14-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	18 17 9	NP	6
	573.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	8 4 2	0.33 B	21
		--In-Situ Vane Shear, 5.5 feet-- --$S_{u\ undis}$ = 945.4 psf-- --$S_{u\ remold}$ = 673.4 psf-- --Sensitivity = 1.40--			1 3	VS 1 2 2	0.25 B	24
		--In-Situ Vane Shear, 8.0 feet-- --$S_{u\ undis}$ = 1036 psf-- --$S_{u\ remold}$ = 751 psf-- --Sensitivity = 1.38--	10		2 4	VS 1 2 2	0.25 B	22
		--In-Situ Vane Shear, 10.5 feet-- --$S_{u\ undis}$ = 854.7 psf-- --$S_{u\ remold}$ = 621.6 psf-- --Sensitivity = 1.375--			3 5	VS 1 1 2	0.25 B	24
		--In-Situ Vane Shear, 13.0 feet-- --$S_{u\ undis}$ = 1010 psf-- --$S_{u\ remold}$ = 699 psf-- --Sensitivity = 1.44-- --L_L(%)=35, P_L(%)=15-- --%Gravel=3.8-- --%Sand=15.1-- --%Silt=47.7-- --%Clay=33.4-- --A-6 (15)--	15		4 6	VS 0 1 2	0.33 B	25
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 1087.8 psf-- --$S_{u\ remold}$ = 751.1 psf-- --Sensitivity = 1.448--			5 7	VS 0 1 2	0.25 B	23
		--In-Situ Vane Shear, 18.0 feet-- --$S_{u\ undis}$ = 932.4 psf--	20		6 8	VS 1 1 2	0.16 B	25
		--$S_{u\ remold}$ = 569.8 psf-- --Sensitivity = 1.636-- --In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 1217.3 psf-- --$S_{u\ remold}$ = 751.1 psf-- --Sensitivity = 1.621--			7 9	VS 0 2 2	0.25 B	25
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 802.9 psf-- --$S_{u\ remold}$ = 569.8 psf-- --Sensitivity = 1.409--	25		8 10	VS 0 2 2	0.25 B	25
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 1424.5 psf-- --$S_{u\ remold}$ = 906.5 psf-- --Sensitivity = 1.571--			9 11	VS 0 2 2	0.33 B	25
			30		12	2 2 2	0.57 B	24
		6-inch thick or more, gray sand lenses	35		13	2 2 4	0.49 B	26
	540.2	Stiff to hard, gray SILTY CLAY to CLAY, trace gravel						
		--L_L(%)=38, P_L(%)=16-- --%Gravel=0.9-- --%Sand=9.8--	40		14	2 3 5	1.15 B	24

GENERAL NOTES

Begin Drilling: **05-21-2013** Complete Drilling: **05-23-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P/N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.97 ft
North: 1898475.15 ft
East: 1171596.44 ft
Station: 8151+09.33
Offset: 65.9333 LT

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			--%Silt=46.9-- --%Clay=42.3-- --A-6 (19)--					
45				15		6 9 13	4.35 B	11
50				16		5 9 10	3.69 B	19
55				17		4 5 7	1.07 B	26
	520.2		Loose, gray SILT					
60				18		3 4 5	NP	23
	515.2		Hard, gray SILTY CLAY LOAM, trace gravel					
65				19		10 18 23	10.25 B	15
	510.2		Very dense, gray SILTY LOAM to SILT, trace to some gravel					
70				20		22 30 35	NP	20
			--HARD DRILLING--					
75				21		50/5"	NR	
80				22		70/3"	NP	9

GENERAL NOTES

Begin Drilling: **05-21-2013** Complete Drilling: **05-23-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P/N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 2055-B-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.97 ft
North: 1898475.15 ft
East: 1171596.44 ft
Station: 8151+09.33
Offset: 65.9333 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	40 50/5"	NP	19
			90		24	14 25 48	NP	18
		--HARD DRILLING-- *dolostone clasts*	95		25	50/5"	NP	18
	481.0	Probably weathered DOLOSTONE						
	480.0	--AUGER REFUSAL-- Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, with shale partings, up to 18-inch beds, 1- to 18-inch spaced joints, horizontal joints with less than	100			C 0 R E		

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		0.2- to 2-inch greenish gray silty infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. Run 1 - RECOVERY=98% RQD=82% 98.5ft-Qu=10300 psi --->	105		1			
	470.0	Boring terminated at 107.00 ft	110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **05-21-2013** Complete Drilling: **05-23-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P/N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 2055-B-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.52 ft
North: 1898460.17 ft
East: 1171341.21 ft
Station: 8148+53.80
Offset: 57.3869 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.1	5.5-inch thick ASPHALT --PAVEMENT-- Medium dense, gray CRUSHED STONE --BASE COURSE--			1	4 7 8	NP	8
	572.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	1 1 2	0.33 B	24
					3	0 1 1	0.25 B	25
			10		4	0 0 1	0.25 B	27
					5	0 1 1	0.25 B	26
			15		6	0 1 1	0.25 B	25
					7	1 1 1	0.25 B	26
			20		8	0 1 2	0.33 B	28
			25		9	0 1 2	0.25 B	27
					10	1 1 2	< 0.25 P	28
					11	1 2 2	0.49 B	26
			30		12	1 2 2	0.57 B	26
	543.8	Medium stiff to very stiff, gray SILTY CLAY to CLAY, trace gravel						
			35		13	1 2 6	0.66 B	21
			40		14	6 8 9	2.54 B	14

GENERAL NOTES

Begin Drilling: **05-13-2013** Complete Drilling: **05-15-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P/N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 2055-B-06

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.52 ft
North: 1898460.17 ft
East: 1171341.21 ft
Station: 8148+53.80
Offset: 57.3869 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 7 12	1.97 B	15
			50		16	5 7 10	2.95 B	22
		Possible cobble-rich layer						
			55		17	4 6 7	1.75 P	22
	518.8	Dense, gray SILTY LOAM, trace gravel						
			60		18	8 16 23	NP	18
	513.8	Hard, gray SILTY CLAY LOAM, trace to little gravel						
			65		19	13 25 38	> 10.25 B	15
			70		20	14 23 27	8.04 B	15
		--HARD DRILLING--						
			75		21	47 50/5"	9.02 B	12
	498.4	--HARD DRILLING-- Very dense, gray SILTY LOAM to SILT, trace to some gravel						
			80		22	50/4"	NP	11

GENERAL NOTES

Begin Drilling **05-13-2013** Complete Drilling **05-15-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 2055-B-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.52 ft
North: 1898460.17 ft
East: 1171341.21 ft
Station: 8148+53.80
Offset: 57.3869 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	29 40 33	NP	22
			90		24	19 23 28	NP	17
	481.5	Probably weathered DOLOSTONE	95		25	25 50/2"	NP	16
	479.5	--AUGER REFUSAL--						
		Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, with shale partings, up to 18-inch beds, 1- to 18-inch spaced joints, horizontal and oblique joints with less than 0.2- to 1-inch greenish gray silty infilling, hard joint wall, with stylolitic surfaces, and	100			C O R E		
		moderately vuggy porosity. Run 1 - RECOVERY = 98% RQD = 72% 97.5ft-Qu=10330 psi --->	105		1			
	469.5	Boring terminated at 106.00 ft	110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **05-13-2013** Complete Drilling: **05-15-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P/N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 20-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.12 ft
North: 1897711.41 ft
East: 1171734.33 ft
Station: 1610+87.80
Offset: 31.0288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13.5-inch thick CONCRETE --PAVEMENT--						
	576.0							
	575.8	4.5-inch thick ASPHALT --PAVEMENT--						
		Dense, white CRUSHED STONE --BASE COURSE--			1	26 30 11	NP	6
	573.9							
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			2	2 1 1	0.25 B	27
			5		3	2 2 1	0.16 B	28
			10		4	1 1 2	0.41 B	24
					5	1 2 1	0.33 B	24
			15		6	1 1 2	0.41 B	24
	561.6							
		Soft, gray SILTY CLAY LOAM, trace gravel --L_L(%)=31, P_L(%)=16-- --%Gravel=4.8-- --%Sand=16.1-- --%Silt=54.8-- --%Clay=24.3-- --A-6 (10)--			7	2 1 2	0.16 B	18
	559.1							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace	20		8	0 1 1	0.16 B	26
		gravel	25		9	0 1 1	0.16 B	25
					10	0 1 2	0.16 B	26
					11	1 2 2	0.16 B	26
			30		12	2 2 1	0.57 B	27
	540.4							
		Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	1 2 2	0.08 B	26
			40		14	3 6 10	1.72 B	23

GENERAL NOTES

Begin Drilling: **10-28-2013** Complete Drilling: **11-03-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **CLM**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **56.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 20-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.12 ft
North: 1897711.41 ft
East: 1171734.33 ft
Station: 1610+87.80
Offset: 31.0288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=35, P_L(%)=18--						
		--%Gravel=1.0--						
		--%Sand=6.7--						
		--%Silt=53.8--						
		--%Clay=38.6--						
		--A-6 (16)--						
			45		15	7 8 15	5.74 B	13
			50		16	6 9 12	3.94 B	20
			55		17	6 8 9	1.56 B	21
	520.4	Loose, gray SILT --Saturated--						
			60		18	3 3 6	1.31 S	29

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	515.4	--HARD DRILLING-- *--Possible Cobbles--* Very dense, gray, coarse SAND						
			65		19	48 50/5	NP	11
		--HARD DRILLING-- *--Possible Cobbles--*						
	510.6	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			70		20	32 45 45	5.41 S	10
			75		21	20 18 35	7.30 S	17
	500.4	Very dense, gray SILTY LOAM, trace gravel						
			80		22	39 47 48	NP	15

GENERAL NOTES

Begin Drilling: **10-28-2013** Complete Drilling: **11-03-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **CLM**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **56.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 20-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.12 ft
North: 1897711.41 ft
East: 1171734.33 ft
Station: 1610+87.80
Offset: 31.0288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- *--Possible Cobbles--*						
	495.4							
		Very dense, gray GRAVELLY SAND, some cobbles			23	50/1	NA	
			85					
					24	39 50/5	NP	11
		--HARD DRILLING-- *--Possible Boulders--*	90					
	486.1	--ROLLER BIT REFUSAL--						
		Boring terminated at 91.00 ft						
			95					
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **10-28-2013** Complete Drilling **11-03-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **A. Tomaras** Checked by **CLM**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **56.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 21-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.23 ft
North: 1897682.52 ft
East: 1171760.80 ft
Station: 1610+92.09
Offset: 7.9354 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	584.1	13-inch thick CONCRETE --PAVEMENT--						
	583.9	3-inch thick ASPHALT --PAVEMENT--						
		CRUSHED STONE --BASE COURSE--			1	13 20 18	NP	8
	582.0	Medium dense to very dense, brown GRAVELLY SAND --FILL--			2	9 10 5	NP	12
			5		3	25 50/3	NP	12
	577.2	Very dense, brown SILTY LOAM, trace gravel						
	576.3	--FILL--			4	50/5	NP	16
		--AUGER REFUSAL-- --Obstruction--	10					
		Boring terminated at 8.90 ft						
			15					
			20					

GENERAL NOTES

Begin Drilling **10-13-2013** Complete Drilling **10-13-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&N** Logger **D. Kolpacki** Checked by **L. Iordache**
Drilling Method **2.25" SSA , boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 21-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 596.95 ft
North: 1897705.23 ft
East: 1171851.95 ft
Station: 1611+67.44
Offset: 53.9743 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	596.0	12-inch thick, brown LOAM, trace gravel						
		--TOPSOIL--						
		Hard, gray CLAY LOAM, trace gravel			1	13 11 11	7.79 S	16
		--FILL--						
			5		2	5 9 11	5.33 S	13
	591.5	Stiff to medium stiff, gray and brown, SILTY CLAY, trace gravel, slag, brick and wood			3	2 2 4	1.23 B	19
		--FILL--						
			10		4	2 3 4	1.15 B	19
					5	3 5 5	0.98 B	21
	584.0	Very stiff, brown and gray SILTY CLAY, trace gravel						
			15		6	3 5 7	3.53 B	25
	581.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 2 2	0.66 B	24
			20		8	1 1 2	< 0.25 P	29
			25		9	1 1 1	< 0.25 P	25
					10	0 0 0	0.16 B	22
			30		11	0 0 0	0.16 B	25
					12	0 0 0	0.25 B	25
			35		13	0 0 0	< 0.25 P	26
			40		14	0 1 3	0.49 B	25

GENERAL NOTES

Begin Drilling: **09-25-2013** Complete Drilling: **09-30-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 21-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 596.95 ft
North: 1897705.23 ft
East: 1171851.95 ft
Station: 1611+67.44
Offset: 53.9743 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.2	Stiff to hard, gray SILTY CLAY LOAM, trace gravel	45		15	2 2 2	0.25 P	25
			50		16	1 2 3	< 0.25 P	25
			55		17	1 3 3	0.66 B	21
			60		18	15 17 21	> 4.50 P	15
			65		19	11 10 16	4.33 N/6	
			70		20	10 12 19	4.76 B	19
			75		21	6 10 12	1.80 B	24
			80		22	6 8 10	3.00 N/6	19

GENERAL NOTES

Begin Drilling: **09-25-2013** Complete Drilling: **09-30-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 21-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 596.95 ft
North: 1897705.23 ft
East: 1171851.95 ft
Station: 1611+67.44
Offset: 53.9743 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	515.2	Very dense, gray SILTY LOAM, little to some gravel and cobbles						
			85		23	13 31 41	NP	14
			90		24	18 35 48	9.35 S	10
			95		25	20 36 50/4	9.10 S	13
		--HARD DRILLING-- *--Possible Cobbles--*						
			100		26	50/5	NR	

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- *--Possible Cobbles--*						
					27	50/4	NP	11
		--HARD DRILLING-- *--Possible Cobbles--*	105					
	490.0	--ROLLER BIT REFUSAL-- Boring terminated at 107.00 ft						
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling **09-25-2013** Complete Drilling **09-30-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **A. Tomaras** Checked by **L. Iordache**
Drilling Method **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 21-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.97 ft
North: 1897787.89 ft
East: 1171858.64 ft
Station: 1612+32.77
Offset: 11.8407 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Very stiff to hard, brown CLAY LOAM, trace brick fragments --FILL--			1	3 4 8	3.50 P	11
			5		2	5 5 7	3.12 B	14
		--3-inch thick, red, crushed Brick--			3	13 8 6	NP	19
			10		4	5 5 7	6.56 B	15
	581.5	Stiff, gray SILTY CLAY, trace gravel			5	2 3 4	1.97 B	23
	579.0	Very soft to medium stiff, gray CLAY, trace gravel			6	2 1 3	0.57 B	25
			15		7	2 1 2	0.49 B	25
			20		8	2 2 2	< 0.25 P	28
			25		9	0 0 0	0.33 B	23
					10	0 0 2	0.25 B	26
			30		11	0 1 2	0.45 B	26
					12	2 2 2	< 0.25 P	25
			35		13	1 2 2	0.57 B	24
			40		14	2 3 3	0.49 B	25

GENERAL NOTES

Begin Drilling: **09-23-2013** Complete Drilling: **09-23-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 21-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.97 ft
North: 1897787.89 ft
East: 1171858.64 ft
Station: 1612+32.77
Offset: 11.8407 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 3 3	< 0.25 P	27
			50		16	0 2 2	0.41 B	28
	540.2	Very stiff to hard, SILTY CLAY to SILTY CLAY LOAM, trace gravel	55		17	4 5 8	1.48 B	22
			60		18	14 12 15	3.00 P	16
	520.2	Dense, gray SILT	65		19	15 17 24	4.10 B	27
			70		20	16 17 20	8.53 B	12
			75		21	20 26 23	NP	21
	515.2	Hard, gray SILTY CLAY LOAM, trace gravel	80		22	19 20 28	8.61 S	14

GENERAL NOTES

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **A. Tomaras** Checked by **L. Iordache**
Drilling Method **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 21-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.97 ft
North: 1897787.89 ft
East: 1171858.64 ft
Station: 1612+32.77
Offset: 11.8407 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	510.2	Very dense, gray SILT --HARD DRILLING--						
					23	31 32 50/5	NP	15
			85					
	505.2	Very dense, gray SILTY LOAM, trace gravel						
					24	23 33 29	6.81 S	21
			90					
					25	66/6 44/3	NP	15
			95					
	495.2	--HARD DRILLING-- Very dense, brown SANDY GRAVEL --possibly underpressure groundwater bearing--						
					26	30 70/6	NP	6
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	490.2	Very dense, weathered DOLOSTONE fragments --WEATHERED BEDROCK--						
					27	50/1	NP	
	487.5	--ROLLER BIT REFUSAL--						
	487.0	--BEDROCK--	105					
		Boring terminated at 104.50 ft						
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **A. Tomaras** Checked by **L. Iordache**
Drilling Method **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.85 ft
North: 1897850.59 ft
East: 1171897.08 ft
Station: 1613+02.29
Offset: 21.9615 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	587.4	5 -inch thick, black SILTY LOAM --TOPSOIL--						
		Very stiff to hard, brown SILTY CLAY LOAM, trace gravel --FILL--			1	5 6 7	4.51 S	16
			5		2	5 3 5	3.50 P	18
	582.4	Stiff, brown and gray SILTY CLAY, trace gravel			3	3 3 3	1.97 B	22
	579.9	Very soft to medium stiff, brown CLAY to SILTY CLAY, trace gravel			4	1 1 2	0.57 B	23
			10		5	1 1 2	0.41 B	25
					6	1 1 2	0.33 B	24
			15		7	1 1 2	0.33 B	23
					8	0 1 1	0.16 B	26
			20					
		--L_L(%)=34, P_L(%)=17-- --%Gravel=7.3-- --%Sand=16.1-- --%Silt=47.5-- --%Clay=29.0-- --AASHTO--	25		9	1 1 2	0.16 B	25
					10	1 1 1	0.16 B	27
					11	1 2 2	0.33 B	20
					12	1 1 2	0.16 B	23
			30					
			35		13	1 2 3	0.66 B	21
					14	2 2 2	0.41 B	24
			40					

GENERAL NOTES

Begin Drilling: **09-23-2013** Complete Drilling: **09-23-2013**
Drilling Contractor: **K&S** Drill Rig: **D-120 TMR**
Driller: **R&E** Logger: **F. Bozga** Checked by: **L. Iordache**
Drilling Method: **4.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 21-RWB-04

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.85 ft
North: 1897850.59 ft
East: 1171897.08 ft
Station: 1613+02.29
Offset: 21.9615 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 3	0.33 B	26
			50		16	3 5 8	0.66 B	20
	536.1	Very stiff, gray SILTY CLAY, trace gravel						
			55		17	4 7 11	3.28 B	22
	531.1	Dense to very dense, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel						
			60		18	16 26 38	6.23 S	14

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			65		19	26 25 30	5.66 S	13
		--HARD DRILLING-- *--Possible Cobbles--*						
			70		20	38 50/5"	NP	15
			75		21	12 19 29	8.04 S	13
			80		22	22 50/5"	NP	11

GENERAL NOTES

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
Drilling Contractor **K&S** Drill Rig **D-120 TMR**
Driller **R&E** Logger **F. Bozga** Checked by **L. Iordache**
Drilling Method **4.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 21-RWB-04

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.85 ft
North: 1897850.59 ft
East: 1171897.08 ft
Station: 1613+02.29
Offset: 21.9615 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	19 25 31	NP	10
			90		24	50/5"	NP	11
	496.6	Dense, gray SANDY GRAVEL						
	492.9		95		25	11 21 19	NP	13
		Boring terminated at 95.00 ft	100					

GENERAL NOTES

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
Drilling Contractor **K&S** Drill Rig **D-120 TMR**
Driller **R&E** Logger **F. Bozga** Checked by **L. Iordache**
Drilling Method **4.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.32 ft
North: 1897919.78 ft
East: 1171915.09 ft
Station: 1613+69.21
Offset: 25.0245 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.9	5-inch thick, white CRUSHED STONE						
		--FILL--						
		Hard, gray and brown CLAY LOAM, trace gravel			1	6 9 9	6.56 S	15
		--FILL--						
	580.3	Medium stiff to stiff, gray SILTY CLAY, trace gravel			2	2 2 2	0.82 B	20
			5		3	1 3 3	1.23 B	17
	575.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	0 2 1	0.41 B	25
			10		5	0 0 0	0.41 B	26
					6	0 0 2	0.57 B	22
			15		7	2 3 2	0.66 B	22
					8	0 2 3	0.74 B	24
			20		9	2 2 4	0.82 B	23
					10	2 3 3	0.74 B	23
			25		11	2 2 3	0.66 B	24
					12	3 4 6	0.66 B	23
			30		13	2 3 3	0.49 B	25
			35		14	3 3 4	0.41 B	23
			40					

GENERAL NOTES

Begin Drilling: **09-24-2013** Complete Drilling: **09-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 21-RWB-05

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.32 ft
North: 1897919.78 ft
East: 1171915.09 ft
Station: 1613+69.21
Offset: 25.0245 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.6	Stiff to hard, gray SILTY CLAY LOAM, trace gravel	45		15	2 4 8	1.23 B	18
			50		16	6 12 18	4.26 B	15
	531.6	Gray, coarse SAND						
	529.6	Hard, gray SILTY CLAY LOAM, trace gravel	55		17	13 15 21	5.66 B	14
			60		18	16 24 31	7.13 S	11
	516.6	Very dense, gray SILTY LOAM, trace to some gravel	65		19	10 16 21	6.81 S	14
			70		20	15 25 30	9.02 S	11
			75		21	41 60/3"	NP	10
			80		22	34 45 20/2"	8.69 S	10

GENERAL NOTES

Begin Drilling **09-24-2013** Complete Drilling **09-25-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **A. Tomaras** Checked by **L. Iordache**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 21-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.32 ft
North: 1897919.78 ft
East: 1171915.09 ft
Station: 1613+69.21
Offset: 25.0245 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	501.6	Very dense, gray SANDY LOAM, trace gravel						
					23	78/6" 22/1"	NP	9
			85					
		--HARD DRILLING-- *--Possible Cobbles--*						
					24	64 45/6"	NP	13
			90					
	491.6	Very dense, gray GRAVELLY SILTY LOAM, trace to some cobbles						
					25	100/6"	1.31 S	13
			95					
		--HARD DRILLING-- *--Possible Cobbles--*						
					26	64 40/2"	0.49 S	9
			100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	482.3							
		--WEATHERED BEDROCK-- --ROLLER BIT REFUSAL--						
	481.3	Boring terminated at 102.00 ft						
			105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **09-24-2013** Complete Drilling: **09-25-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **L. Iordache**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 22-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.62 ft
North: 1898185.65 ft
East: 1171879.86 ft
Station: 1212+29.37
Offset: 21.9731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.4	15-inch thick, black and brown SILTY LOAM --TOPSOIL--						
		Hard, brown CLAY LOAM, trace gravel --FILL--			1	7 8 10	4.50 P	16
	584.6	Very stiff, gray SILTY CLAY LOAM, trace gravel	5		2	3 4 6	2.05 B	18
	582.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 3	0.57 B	24
			10		4	1 1 2	0.25 B	25
					5	1 2 2	0.41 B	26
		--L_L(%)=32, P_L(%)=18-- --%Gravel=2.5-- --%Sand=15.0-- --%Silt=57.1-- --%Clay=25.4-- --A-6 (10)--	15		6	1 2 2	0.41 B	23
					7	2 2 3	0.33 B	21
			20		8	2 2 3	0.57 B	21
			25		9	1 2 2	0.41 B	26
					10	1 2 2	0.25 B	27
					11	2 2 2	< 0.25 P	27
			30		12	2 1 2	0.25 B	26
		--L_L(%)=33, P_L(%)=18-- --%Gravel=2.7-- --%Sand=15.7-- --%Silt=57.1-- --%Clay=25.4-- --A-6 (11)--	35		13	1 2 2	0.16 B	26
			40		14	2 2 4	< 0.25 P	26

GENERAL NOTES

Begin Drilling: **03-07-2014** Complete Drilling: **03-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **62.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 22-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.62 ft
North: 1898185.65 ft
East: 1171879.86 ft
Station: 1212+29.37
Offset: 21.9731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 2 3	0.16 B	29
	540.9	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel						
			50		16	5 9 12	3.50 P	22
			55		17	10 9 16	4.17 N/6	
		--L_L(%)=35, P_L(%)=18-- --%Gravel=1.8-- --%Sand=10.2--	60		18	8 10 22	2.30 B	21
		--%Silt=54.1-- --%Clay=33.9-- --A-6 (14)--						
	525.9	Very dense, gray, coarse SAND, little gravel --Moist--						
	523.3	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	65		19	35 50/5	NP	20
			70		20	25 33 37	4.50 P	13
			75		21	16 27 38	7.38 B	17
		--HARD DRILLING from 77 ft-- *--Possible Cobbles--*						
	510.6	Very dense, gray SILTY LOAM, trace gravel						
			80		22	50/0	NP	

GENERAL NOTES

Begin Drilling: **03-07-2014** Complete Drilling: **03-10-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **62.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 22-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 587.62 ft
North: 1898185.65 ft
East: 1171879.86 ft
Station: 1212+29.37
Offset: 21.9731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	491.4	Very dense, gray SANDY GRAVEL; wet --possible water bearing--						
			85		23	50/5	NP	14
			90		24	50/2	NP	11
			95		25	50/4	3.69 S	16
					26	50/2	NP	
	487.6		100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--VERY HARD, STEADY DRILLING-- --WEATHERED BEDROCK--						
	484.6	--ROLLER BIT REFUSAL-- Boring terminated at 103.00 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling **03-07-2014** Complete Drilling **03-10-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **62.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 22-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.36 ft
North: 1898208.77 ft
East: 1171849.77 ft
Station: 1212+66.85
Offset: 28.4715 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.1	3-inch thick, brown SILTY LOAM --TOPSOIL--						
		Hard, brown SILTY CLAY LOAM, trace gravel --FILL--			1	3 4 6	4.10 B	21
	583.4	Stiff to very stiff, gray SILTY CLAY, trace gravel			2	3 4 5	2.87 B	20
			5		3	2 3 3	1.56 B	22
	578.4	Soft, gray CLAY, trace gravel			4	1 1 2	0.33 B	25
			10		5	1 1 2	0.33 B	25
	573.4	Medium stiff, gray SILTY CLAY LOAM, trace gravel			6	1 2 4	0.57 B	17
			15		7	1 2 3	0.41 B	25
	570.9	Soft, gray CLAY to SILTY CLAY, trace gravel			8	2 2 4	0.41 B	22
			20		9	1 1 2	0.41 B	26
			25		10	2 2 2	0.49 B	26
					11	2 1 2	0.41 B	27
			30		12	1 2 3	0.41 B	25
			35		13	1 2 3	0.41 B	25
			40		14	1 2 3	0.25 P	26

GENERAL NOTES

Begin Drilling: **08-05-2014** Complete Drilling: **08-05-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 22-RWB-04

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.36 ft
North: 1898208.77 ft
East: 1171849.77 ft
Station: 1212+66.85
Offset: 28.4715 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING at 42.5 ft-- *--Possible Cobbles--*						
	543.9	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel						
			45		15	2 4 5	1.50 N/6	18
			50		16	5 9 12	2.87 B	18
			55		17	9 11 14	2.62 B	14
	529.6	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel and sand seams						
			60		18	13 19 35	3.69 S	13
	524.6	Very dense, gray SANDY LOAM, trace gravel --Moist--						
	521.4	Boring terminated at 65.00 ft	65		19	13 19 35	NP	11
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **08-05-2014** Complete Drilling **08-05-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
Driller **P&N** Logger **M. de los Reyes** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 22-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.37 ft
North: 1898339.83 ft
East: 1171837.02 ft
Station: 6332+29.43
Offset: 43.1182 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick, dark brown SILTY LOAM						
	593.2	--TOPSOIL--						
		Very loose to dense, brown GRAVELLY SAND --FILL--			1	5 7 3	0.50 P	20
					2	4 4 2	NP	9
			5					
		--Rubble--			3	8 1 2	NP	31
					4	4 14 33	NP	20
			10					
					5	7 5 3	NP	29
	581.4	Soft, gray CLAY, trace gravel						
					6	1 2 2	0.41 B	24
			15					
	578.9	Loose, brown, coarse SAND --MOIST--			7	4 4 3	NP	23
	576.4	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel						
					8	1 3 3	< 0.25 P	24
			20					
	571.4	Stiff, gray, SILTY CLAY, trace gravel			9	1 1 2	0.41 B	26
					10	1 3 3	1.15 B	20
			25					
	568.9	Soft, gray CLAY, trace gravel			11	1 2 4	0.41 B	23
					12	1 2 3	0.25 P	24
			30					
					13	1 2 3	0.25 P	27
			35					
					14	1 2 3	0.41 B	25
			40					

GENERAL NOTES

Begin Drilling: **08-06-2014** Complete Drilling: **08-06-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 22-RWB-05

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.37 ft
North: 1898339.83 ft
East: 1171837.02 ft
Station: 6332+29.43
Offset: 43.1182 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 3 5	0.49 B	25
			50		16	2 4 5	0.25 P	27
			55		17	1 4 4	0.33 B	31
	537.6	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	60		18	8 13 17	3.69 B	17
	529.4	Boring terminated at 65.00 ft	65		19	6 10 15	2.62 B	14
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **08-06-2014** Complete Drilling **08-06-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
Driller **P&N** Logger **M. de los Reyes** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-01 HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.45 ft
North: 1898483.08 ft
East: 1171736.91 ft
Station: 6334+07.09
Offset: 20.9958 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.1	4-inch thick, black SILTY LOAM --TOPSOIL--						
		Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel			1	PUSH	3.50 P	16
					2	PUSH	3.00 P	18
			5		3	PUSH	1.00 P	22
	585.9							
		Very soft to soft, gray CLAY to SILTY CLAY			4	PUSH	0.25 P	23
					5	PUSH	< 0.25 P	23
			10		6	PUSH	< 0.25 P	22
					7	PUSH	< 0.25 P	24
			15			PU		

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					8	SH	0.25 P	22
	575.5	Boring terminated at 16.00 ft	20					
			25					
			30					

GENERAL NOTES

Begin Drilling: **07-29-2014** Complete Drilling: **07-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **K&K** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.29 ft
North: 1898467.55 ft
East: 1171687.36 ft
Station: 6334+12.89
Offset: 30.5965 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, ASPHALT --FILL--						
	573.8							
		Loose to medium dense, white CRUSHED STONE --BASE COURSE--			1	5 6 6	NP	6
					2	3 3 3	NP	8
			5					
	569.8							
		Stiff, brown and gray SILTY CLAY LOAM, trace gravel			3	2 3 4	1.17 N/6	19
	567.3							
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			4	2 2 4	0.49 B	19
			10					
					5	1 1 3	0.41 B	23
					6	1 2 2	0.49 B	26
			15					
					7	3 4 4	0.41 B	25
					8	2 3 2	0.25 P	27
			20					
					9	2 2 3	0.25 B	26
			25		10	1 2 2	0.25 B	23
					11	1 2 3	0.25 B	25
					12	2 2 3	0.41 B	25
			30					
					13	2 3 2	0.83 N/6	
			35					
	538.5							
		Stiff to very stiff, gray SILTY CLAY, trace gravel			14	5 7 9	1.64 B	22
			40					

GENERAL NOTES

Begin Drilling: **07-27-2014** Complete Drilling: **07-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.29 ft
North: 1898467.55 ft
East: 1171687.36 ft
Station: 6334+12.89
Offset: 30.5965 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	7 13 16	2.54 B	22
			50		16	28 25 32	3.00 P	24
	523.5	Medium stiff, gray CLAY						
			55		17	4 5 5	0.87 B	26
	518.5	Dense, gray SANDY LOAM, trace gravel --Wet--						
			60		18	16 14 16	NP	16
	513.5	Hard, gray SILTY CLAY LOAM, trace gravel						
			65		19	23 30 45	7.38 B	15
	510.3	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-27-2014** Complete Drilling **07-27-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 23-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.96 ft
North: 1898537.05 ft
East: 1171661.69 ft
Station: 6334+85.38
Offset: 28.1222 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	575.7	3-inch thick ASPHALT --PAVEMENT--					
	575.1	7-inch thick CONCRETE --PAVEMENT--					
		Very dense, grayish white CRUSHED STONE					
	573.0	--FILL--					
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel					
				1	40 37 21	NP	2
5				2	4 3 2	0.41 B	19
				3	1 2 3	0.49 B	20
10				4	1 2 3	0.41 B	23
				5	1 2 2	0.41 B	25
15				6	1 2 2	0.41 B	26
				7	1 2 2	< 0.25 P	27
20				8	1 1 2	0.33 B	26
25				9	1 1 2	0.25 B	25
				10	1 1 2	0.25 B	26
				11	2 3 4	0.41 B	25
30				12	2 2 3	0.49 B	25
35				13	1 2 3	0.41 B	27
	539.2	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel					
40				14	2 4 6	1.31 B	22

GENERAL NOTES

Begin Drilling: **08-13-2014** Complete Drilling: **08-13-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.96 ft
North: 1898537.05 ft
East: 1171661.69 ft
Station: 6334+85.38
Offset: 28.1222 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Occasional SILT interbeds--	45		15	6 9 13	2.13 B	13
			50		16	6 10 8	4.10 B	19
	524.2	Very stiff, gray CLAY , trace gravel						
			55		17	3 7 8	2.05 B	24
	519.2	Dense, gray SILTY LOAM, trace gravel --Moist--						
			60		18	7 14 17	NP	25
	514.2	Coarse, brown SAND --Saturated--						
	512.2	Dense, gray SILTY LOAM, trace gravel			19	10 15 19	NP	16
	511.0	Boring terminated at 65.00 ft	65					
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-13-2014** Complete Drilling: **08-13-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-02HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.91 ft
North: 1898549.00 ft
East: 1171697.15 ft
Station: 6334+84.05
Offset: 9.2779 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
585.6	4-inch thick, black SILTY LOAM --TOPSOIL--						
	Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			1	PUSH	2.00 P	13
				2	PUSH	4.00 P	19
582.1	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	5		3	PUSH	2.00 P	20
				4	PUSH	1.75 P	19
				5	PUSH	1.00 P	18
575.9	Soft, gray CLAY to SILTY CLAY, trace gravel	10		6	PUSH	0.25 P	20
				7	PUSH	0.25 P	20
		15			PU		
		20					
		25					
569.9	Boring terminated at 16.00 ft	30		8	SH	0.25 P	19

GENERAL NOTES

Begin Drilling: **07-29-2014** Complete Drilling: **07-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **K&K** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.57 ft
North: 1898615.24 ft
East: 1171637.84 ft
Station: 6335+65.51
Offset: 25.2492 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.3	4-inch thick ASPHALT --PAVEMENT--						
	575.6	8-inch thick CONCRETE --PAVEMENT--						
		Medium dense, gray and white CRUSHED STONE			1	9 9 12	NP	7
	573.6	--FILL--						
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	3 2 3	0.83 N/6	
			5		3	1 1 2	0.41 B	22
					4	1 2 3	0.33 B	23
			10		5	1 2 3	0.49 B	23
					6	1 2 3	0.49 B	24
			15		7	1 2 2	0.49 B	22
					8	1 2 2	0.25 B	25
			20					
			25		9	1 1 2	0.08 B	27
					10	1 2 2	0.16 B	26
					11	1 2 2	0.16 B	23
		--L_L(%)=36, P_L(%)=17-- --%Gravel=4.9-- --%Sand=12.1-- --%Silt=44.7-- --%Clay=38.4-- --A-6 (15)--	30		12	1 2 4	0.33 B	25
			35		13	1 2 3	0.33 B	26
	539.8	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			40		14	3 4 8	1.56 B	23

GENERAL NOTES

Begin Drilling: **08-18-2014** Complete Drilling: **08-18-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.57 ft
North: 1898615.24 ft
East: 1171637.84 ft
Station: 6335+65.51
Offset: 25.2492 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=25, P_L(%)=16--						
		--%Gravel=6.6--						
		--%Sand=25.6--						
		--%Silt=48.8--	45		15	5 8 13	3.94 B	13
		--%Clay=19.0--						
		--A-4 (4)--						
			50		16	7 38 19	2.30 B	19
			55		17	6 8 10	1.23 B	23
	517.6	Medium dense to dense, gray SILTY LOAM, trace to some	60		18	4 5 6	NP	22

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		gravel						
		--DRY--						
	511.6	Boring terminated at 65.00 ft	65		19	9 17 28	NP	
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-18-2014** Complete Drilling: **08-18-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-03HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.87 ft
North: 1898626.40 ft
East: 1171678.67 ft
Station: 6335+64.02
Offset: 17.053 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.4	6-inch thick, black SILTY CLAY LOAM						
		--TOPSOIL--						
		Very stiff, brown and gray SILTY CLAY LOAM, trace gravel			1	PUSH	3.00 P	15
		--FILL--			2	PUSH	3.50 P	17
			5		3	PUSH	2.75 P	18
	580.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	PUSH	0.75 P	20
					5	PUSH	0.50 P	19
			10		6	PUSH	0.25 P	23
					7	PUSH	0.25 P	22
			15			PU		
	570.9	Boring terminated at 16.00 ft			8	SH	0.25 P	16
			20					
			25					
			30					

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **07-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **K&K** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.93 ft
North: 1898688.27 ft
East: 1171612.80 ft
Station: 6336+40.47
Offset: 16.6754 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.9	3-inch thick, ASPHALT over 9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray and white CRUSHED STONE --FILL--			1	13 9 9	NP	3
	573.2	Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	5		2	5 4 5	2.00 P	14
					3	3 4 4	0.74 B	16
	568.9	Very soft to medium stiff, gray CLAY, trace gravel	10		4	2 3 4	0.41 B	19
					5	1 2 3	0.57 B	23
			15		6	2 2 4	0.74 B	23
					7	0 2 2	0.41 B	25
			20		8	1 1 2	0.25 B	25
			25		9	1 2 3	0.25 B	26
					10	2 1 3	0.25 B	26
					11	1 4 3	0.25 B	26
			30		12	1 3 4	0.49 B	25
	545.2	Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel						
			35		13	2 4 5	0.90 B	20
			40		14	5 7 11	1.00 P	22

GENERAL NOTES

Begin Drilling: **07-31-2014** Complete Drilling: **07-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.93 ft
North: 1898688.27 ft
East: 1171612.80 ft
Station: 6336+40.47
Offset: 16.6754 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	5 7 11	1.56 B	19
			50		16	9 11 15	2.13 B	20
	525.2	Hard, gray SILTY CLAY, trace gravel						
			55		17	15 15 20	4.02 B	24
	520.2	Medium stiff, gray CLAY, trace gravel						
			60		18	3 4 5	0.66 B	40
	515.2	Medium dense, gray SILTY LOAM						
			65		19	7 9 7	NP	13
	511.9	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-31-2014** Complete Drilling: **07-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-04HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 584.07 ft
North: 1898698.95 ft
East: 1171657.83 ft
Station: 6336+41.09
Offset: 29.5961 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.6	6-inch thick, black SILTY CLAY LOAM --TOPSOIL--						
		Hard, gray SILTY CLAY LOAM, trace gravel			1	PUSH	4.50 P	17
	582.1	--FILL--						
		Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			2	PUSH	2.50 P	20
			5		3	PUSH	2.25 P	20
					4	PUSH	2.00 P	18
	574.3				5	PUSH	0.75 P	17
		Soft to medium stiff, gray SILTY CLAY	10		6	PUSH	0.50 P	20
		- REFUSAL--			7	PUSH	0.25 P	18
	570.6	Boring terminated at 13.50 ft	15					

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **07-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **K&K** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 23-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 592.28 ft
North: 1898793.23 ft
East: 1171675.68 ft
Station: 6337+31.20
Offset: 54.1130 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.8	6-inch thick, dark brown SANDY LOAM --TOPSOIL--						
		Loose, brown GRAVELLY SANDY LOAM --FILL--			1	6 3 3	NP	13
	589.3	Loose to medium dense, brown and gray, fine SAND, trace gravel --FILL--	5		2	4 4 6	NP	10
				▽	3	10 5 3	NP	19
	584.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	5 2 2	0.80 B	19
					5	2 2 2	0.33 B	26
			15		6	1 1 2	0.16 B	27
					7	0 2 1	0.33 B	25
			20		8	1 2 3	0.41 B	20
			25		9	2 2 4	0.57 B	22
					10	2 2 3	0.41 B	24
					11	2 2 3	0.41 B	24
			30		12	1 2 2	0.32 B	24
			35		13	0 2 3	0.33 B	25
			40		14	3 3 3	0.41 B	24

GENERAL NOTES

Begin Drilling: **08-18-2014** Complete Drilling: **08-18-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **H. Bista** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **5.50 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG 23-RWB-05

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 592.28 ft
North: 1898793.23 ft
East: 1171675.68 ft
Station: 6337+31.20
Offset: 54.1130 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 3 5	0.74 B	25
	545.5	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, little to some gravel						
			50		16	4 10 11	0.82 B	25
			55		17	4 6 7	0.90 B	22
			60		18	10 16 14	1.39 B	19
	532.3	Boring terminated at 60.00 ft						

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **08-18-2014** Complete Drilling **08-18-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
Driller **P&N** Logger **H. Bista** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 23-RWB-05HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.84 ft
North: 1898780.96 ft
East: 1171640.86 ft
Station: 6337+25.29
Offset: 17.6471 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black SILTY LOAM --TOPSOIL--			1	PUSH	NP	16
	582.8							
		Very stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			2	PUSH	2.00 P	16
	580.3							
		Very stiff, gray SILTY CLAY LOAM, trace gravel	5		3	PUSH	2.50 P	18
					4	PUSH	2.00 P	18
	575.8							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	PUSH	0.50 P	19
			10		6	PUSH	0.75 P	19
					7	PUSH	0.25 P	21
			15			PU		

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					8	SH	0.25 P	22
	567.8	Boring terminated at 16.00 ft	20					
			25					
			30					

GENERAL NOTES

Begin Drilling: **07-28-2014** Complete Drilling: **07-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **K&K** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.41 ft
North: 1898928.01 ft
East: 1171591.28 ft
Station: 6338+77.83
Offset: 12.7329 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	5-inch thick ASPHALT --PAVEMENT--						
	574.2	9-inch thick CONCRETE --PAVEMENT--						
	572.9	CRUSHED STONE --BASE COURSE--			1	1 1 3	NR	
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2 2	0.67 N/6	18
			5		3	1 2 2 4	0.25 B	22
					4	1 2 2 3	0.49 B	23
			10		5	1 1 3 3	0.33 B	23
					6	1 2 2	0.49 B	23
			15		7	1 1 2	0.41 B	26
					8	1 1 2	0.25 B	26
			20		9	1 1 2	0.16 B	26
			25		10	1 1 3	0.25 B	25
					11	1 2 2	0.33 B	25
					12	2 2 3	0.98 B	24
			30		13	2 2 4	0.82 B	26
	538.7	Stiff, gray SILTY CLAY LOAM, trace gravel			14	2 3 4	0.66 B	20
			35		15	4 5 9	1.72 B	19
			40					

GENERAL NOTES

Begin Drilling: **08-29-2014** Complete Drilling: **08-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.41 ft
North: 1898928.01 ft
East: 1171591.28 ft
Station: 6338+77.83
Offset: 12.7329 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	533.7							
		Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel						
				X	1	5 7 11	2.05 B	12
			45					
	528.7							
		Very stiff, gray SILTY CLAY, trace gravel						
				X	17	8 13 20	3.53 B	18
			50					
	523.7							
		Stiff, gray CLAY to SILTY CLAY, trace gravel						
				X	18	5 7 8	1.89 B	26
			55					
				X	19	3 3 4	1.17 N/6	27
			60					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.7							
		Medium dense, gray SILTY LOAM, trace gravel						
		--Occasional fine to medium SAND lenses--		X	20	7 8 14	NP	14
	510.4		65					
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-29-2014** Complete Drilling: **08-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-01-HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.00 ft
North: 1898926.95 ft
East: 1171600.35 ft
Station: 6338+76.12
Offset: 3.7646 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.3	8-inch thick black LOAM, trace gravel						
		--TOPSOIL--						
		Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel			1	PUSH	NP	15
		--FILL--			2	PUSH	3.00 P	16
			5		3	PUSH	2.50 P	18
	574.0				4	PUSH	1.50 P	20
		Stiff, gray SILTY CLAY to CLAY, trace gravel			5	PUSH	1.00 P	19
	571.0		10					
		Boring terminated at 10.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **08-20-2014** Complete Drilling: **08-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-02-HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.00 ft
North: 1899009.13 ft
East: 1171602.85 ft
Station: 6339+59.76
Offset: 12 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.7	Black, SILTY LOAM, and roots --TOPSOIL--						
		Black, SILTY LOAM, trace gravel and brick --FILL--			1	PUSH	NP	24
	579.3	Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			2	PUSH	3.50 P	17
			5		3	PUSH	3.00 P	17
		--SAND lenses--			4	PUSH	1.75 P	20
	573.2	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	PUSH	0.75 P	21
	571.0	Boring terminated at 10.00 ft	10					
			15					

GENERAL NOTES

Begin Drilling: **08-19-2014** Complete Drilling: **08-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.86 ft
North: 1899066.62 ft
East: 1171604.08 ft
Station: 6340+15.70
Offset: 3.1076 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.9	6-inch thick, ASPHALT over 6-inch thick, CONCRETE --PAVEMENT--						
		Loose, brown GRAVELLY SAND --FILL--			1	6 5 3	NP	5
	572.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			5		2	1 2 3	0.83 N/6	
					3	1 2 2	0.33 B	22
			10		4	1 1 2	0.49 B	21
					5	2 2 3	0.33 B	26
			15		6	1 1 2	0.16 B	26
					7	1 1 2	0.25 B	25
		--L_L(%)=32, P_L(%)=17-- --%Gravel=3.8-- --%Sand=13.7--	20		8	1 1 2	0.16 B	27
		--%Silt=51.7-- --%Clay=30.7-- --A-6 (11)--			9	1 2 3	0.25 B	24
			25		10	1 2 3	0.16 B	24
					11	1 2 2	0.16 B	25
			30		12	1 2 3	0.25 B	26
			35		13	2 3 3	0.33 B	24
	536.9	Very stiff, gray SILTY CLAY LOAM, trace gravel	40		14	3 10 16	2.62 B	17

GENERAL NOTES

Begin Drilling: **08-14-2014** Complete Drilling: **08-14-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.86 ft
North: 1899066.62 ft
East: 1171604.08 ft
Station: 6340+15.70
Offset: 3.1076 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.1	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			45		15	9 10 11	3.03 B	12
	529.1	Brown fine SAND						
	526.9	Very stiff, gray SILTY CLAY LOAM, trace gravel	50		16	12 12 18	3.36 B	18
	524.1	Very stiff, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=42, P_L(%)=18-- --%Gravel=2.6-- --%Sand=5.7-- --%Silt=42.3-- --%Clay=49.3-- --A-7-6 (23)--	55		17	5 5 5	2.21 B	27
	516.9	Medium dense to very dense, gray SILTY LOAM, trace gravel	60		18	4 11 17	NP	19
	510.9	Boring terminated at 65.00 ft	65		19	23 33 44	NP	20
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-14-2014** Complete Drilling: **08-14-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-03-HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.77 ft
North: 1899066.47 ft
East: 1171624.13 ft
Station: 6340+16.13
Offset: 23.1586 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.4	Black, SILTY LOAM, trace roots --TOPSOIL--						
		Medium stiff, gray and black SILTY CLAY LOAM, trace gravel,			1	PUSH	0.75 P	17
	580.3	roots, brick, and glass --FILL--						
		Stiff to very stiff , gray SILTY CLAY LOAM to SILTY CLAY, trace gravel			2	PUSH	2.25 P	20
			5		3	PUSH	2.25 P	19
					4	PUSH	1.50 P	19
					5	PUSH	1.25 P	22
	571.8		10					
		Boring terminated at 10.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **08-19-2014** Complete Drilling: **08-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R & J** Logger: **A. Tomaras** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.17 ft
North: 1899150.98 ft
East: 1171608.16 ft
Station: 6341+00.27
Offset: 2.6124 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.2	Stiff, black SILTY CLAY LOAM, trace gravel, trace roots --TOPSOIL--			1	5 8 9	1.39 B	9
	573.7	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	5		2	4 3 4	1.48 B	18
	570.7	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 1 2	0.25 B	23
			10		4	2 2 2	0.25 B	23
					5	1 1 2	0.41 B	26
			15		6	1 1 2	< 0.25 P	26
					7	1 1 2	0.16 B	24
			20		8	1 1 2	0.33 B	26
					9	1 1 2	0.50 N/6	
			25		10	0 1 2	0.33 B	27
					11	1 1 1	< 0.25 P	27
			30		12	1 2 2	0.41 B	24
			35		13	1 2 3	0.74 B	20
			40		14	3 4 6	0.82 B	24

GENERAL NOTES

Begin Drilling: **08-12-2014** Complete Drilling: **08-12-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.17 ft
North: 1899150.98 ft
East: 1171608.16 ft
Station: 6341+00.27
Offset: 2.6124 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.4							
		Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel						
			45		15	4 6 9	3.77 B	13
	529.4							
		Very stiff, gray SILTY CLAY, trace gravel						
			50		16	4 6 12	2.87 B	19
	524.4							
		Very stiff, gray CLAY to SILTY CLAY, trace gravel						
			55		17	4 6 8	2.95 B	25
	516.9							
		Gray SILT	60		18	3 4 4	NP	26

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	514.4							
		Medium dense, brown, medium SAND with silt						
			65		19	6 9 14	NP	14
	511.2							
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-12-2014** Complete Drilling: **08-12-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-ST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.77 ft
North: 1899116.08 ft
East: 1171620.82 ft
Station: 6340+66.26
Offset: 17.4976' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Very stiff, black SILTY CLAY LOAM, trace gravel, roots						
	577.8	--TOPSOIL--			1	3 3 4 5	1.00 P	23
		Very stiff, gray SILTY CLAY LOAM, trace gravel						
		--FILL--			2	3 5 6 9	2.71 B	14
			5		3	3 4 5 5	2.54 B	18
	572.5							
		Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			4	3 4 4 4	0.90 B	19
					1	PUSH	0.25 P	23
			10					
		--S_u=0.37 tsf (UU TXC)			2	PUSH	0.50 P	22
		--w_n(%)=23						
					3	PUSH	0.25 P	24
			15					
		--S_u=0.50 tsf (UU TXC)			4	PUSH	0.25 P	24
		--w_n(%)=23						
			20			PU		

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					5	SH	0.25 P	23
		--S_u=0.49 tsf (UU TXC)						
		--w_n(%)=24			6	PUSH	0.25 P	24
			25					
					7	PUSH	0.50 P	25
					8	PUSH	0.25 P	25
			30					
					9	PUSH	0.50 P	23
			35		10	PUSH	0.50 P	25
					11	PUSH	1.00 P	19
	539.8	Very stiff, gray SILTY CLAY, trace gravel				PU		
			40					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Groundwater**
At Completion of Drilling: **not observed**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 24-ST-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.77 ft
North: 1899116.08 ft
East: 1171620.82 ft
Station: 6340+66.26
Offset: 17.4976' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Laboratory Q_u=1.57 tsf (B), w_n(%)=21--			12	S H	2.25 P	21
					5	3 5 8	2.05 P	20
					6	4 6 10	3.94 B	20
	533.8		45					
		Boring terminated at 45.00 ft						
			50					
			55					
			60					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Groundwater**
At Completion of Drilling ▼ **not observed**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 25-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.97 ft
North: 1899010.62 ft
East: 1171588.78 ft
Station: 6339+59.75
Offset: 11.7335 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.5	5-inch thick, ASPHALT --PAVEMENT--					
	574.6	10-inch thick, CONCRETE --PAVEMENT--					
		Medium dense, gray CRUSHED STONE --BASE COURSE--		1	6 8 6	NP	6
	572.7	Medium stiff, gray SILTY CLAY LOAM, trace gravel --FILL--		2	1 2 2	0.57 B	18
5	570.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		3	0 1 2	0.57 B	23
				4	0 2 2	0.57 B	24
10				5	0 2 2	0.74 B	24
				6	0 2 1	0.49 B	24
15				7	0 2 2	0.49 B	24
				8	0 2 2	0.25 B	25
20				9	0 0 1	0.25 B	25
				10	0 1 2	0.25 B	25
25				11	0 2 2	0.49 B	25
				12	0 2 2	0.57 B	25
30				13	0 0 1	0.41 B	19
35	539.2	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel		14	8 10 23	4.76 B	16
40							

GENERAL NOTES

Begin Drilling: **07-09-2014** Complete Drilling: **07-09-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **61.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 25-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.97 ft
North: 1899010.62 ft
East: 1171588.78 ft
Station: 6339+59.75
Offset: 11.7335 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 7 10	3.12 B	15
	529.2	Medium stiff to stiff, gray CLAy to SILTY CLAY, trace gravel						
			50		16	5 9 14	3.83 N/6	24
			55		17	3 4 5	1.50 N/6	
	519.2	Stiff, gray SILTY CLAY LOAM, trace gravel						
			60		18	8 11 12	1.72 B	19
	514.2	Dense, brown fine SAND	65		19	14 21 23	NP	26
			70		20	13 18 28	NP	19
	504.2	Very dense, gray GRAVELLY SAND --DRY--	75		21	33 38 29/4	NP	9
			80		22	50/4	NP	16

GENERAL NOTES

Begin Drilling: **07-09-2014** Complete Drilling: **07-09-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **61.75 ft**
At Completion of Drilling: **Rotary wash**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 25-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.97 ft
North: 1899010.62 ft
East: 1171588.78 ft
Station: 6339+59.75
Offset: 11.7335 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	494.2	Very dense, gray SILT to SILTY LOAM, trace gravel --DRY--						
					23	33 43 24/3	NP	17
			85					
					24	50/2	NR	
	486.5	--ROLLER BIT REFUSAL--						
		Boring terminated at 89.50 ft	90					
			95					
			100					

GENERAL NOTES

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **61.75 ft**
At Completion of Drilling ▼ **Rotary wash**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 25-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.01 ft
North: 1899152.68 ft
East: 1171595.25 ft
Station: 6341+01.13
Offset: 10.3801 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.7	4-inch thick, ASPHALT --PAVEMENT--						
	574.8	10-inch, CONCRETE --PAVEMENT--						
		Medium dense, CRUSHED STONE			1	8 11 9	NP	7
	573.0	--BASE COURSE--						
		Very stiff, brown SILTY CLAY, trace gravel --FILL--	5		2	2 2 3	2.46 B	20
	570.5	Stiff, brown SILTY CLAY LOAM, trace gravel			3	3 4 4	1.64 B	9
	568.0	Soft, gray CLAY to SILTY CLAY, trace gravel	10		4	0 0 1	0.41 B	23
					5	0 0 1	0.41 B	25
			15		6	0 0 1	0.41 B	25
					7	0 0 0	0.33 B	25
			20		8	0 0 0	0.49 B	23
			25		9	0 0 0	0.33 B	25
					10	0 0 1	0.41 B	26
			30		11	0 0 0	0.41 B	26
					12	0 0 1	0.41 B	25
	544.3	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	2 4 3	1.31 B	16
			40		14	1 3 5	1.56 B	24

GENERAL NOTES

Begin Drilling: **07-09-2014** Complete Drilling: **07-09-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **A&K** Logger: **A. Mohammed** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 25-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.01 ft
North: 1899152.68 ft
East: 1171595.25 ft
Station: 6341+01.13
Offset: 10.3801 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 4 4	1.39 B	16
			50		16	3 5 7	3.36 B	21
	524.3	Stiff, gray CLAY to SILTY CLAY, trace gravel	55		17	4 6 6	1.48 B	30
			60		18	4 4 4	1.56 B	25
	514.3	Dense, gray SAND	65		19	10 18 23	NP	15
	511.0	Boring terminated at 60.00 ft	70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 26-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.37 ft
North: 1899073.58 ft
East: 1171541.57 ft
Station: 6147+73.48
Offset: 28.20527 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.1	4-inch thick ASPHALT --PAVEMENT--						
	574.2	10-inch thick CONCRETE --PAVEMENT--						
		Medium dense to dense, gray and white CRUSHED STONE, brick fragments --FILL--			1	18 16 14	NP	3
			5		2	9 6 7	NP	5
	569.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.98 B	22
			10		4	2 2 5	0.49 B	21
	564.9	Stiff, gray SILTY CLAY LOAM, trace gravel --few SAND seams--			5	3 3 6	1.72 B	14
	562.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			6	2 2 4	0.66 B	25
			15		7	2 2 3	0.33 B	26
			20		8	1 1 2	0.41 B	26
			25		9	1 2 3	0.25 B	36
					10	2 1 3	0.33 B	26
			30		11	2 2 3	0.33 B	26
					12	1 2 3	0.41 B	25
	538.6	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	2 3 5	0.49 B	25
			40		14	5 8 9	2.82 B	22

GENERAL NOTES

Begin Drilling: **07-31-2014** Complete Drilling: **07-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **59.50 ft**
At Completion of Drilling: ▼ **mud at 16 ft; rotary wash**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG 26-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.37 ft
North: 1899073.58 ft
East: 1171541.57 ft
Station: 6147+73.48
Offset: 28.20527 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	12 11 12	3.12 B	15
			50		16	12 15 21	5.17 B	20
	523.6	Medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			55		17	3 3 5	0.98 B	39
	518.6	Gray SILTY LOAM						
	515.9	Very dense, brown and gray,	60		18	5 6 11	NP	10
		medium to coarse SAND, trace gravel	65		19	13 23 27	NP	16
	510.4	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-31-2014** Complete Drilling: **07-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **59.50 ft**
At Completion of Drilling: ▼ **mud at 16 ft; rotary wash**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 27-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.17 ft
North: 1899481.12 ft
East: 1171604.19 ft
Station: 6344+30.89
Offset: 14.5751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.8	5-inch thick ASPHALT --PAVEMENT--						
	578.2	7-inch thick CONCRETE --PAVEMENT--						
		Hard, brown SILTY CLAY LOAM, trace gravel						
	576.2	--FILL--						
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
					1	4 2 5	4.10 B	15
			5		2	1 1 1	0.16 B	27
					3	0 1 1	0.16 B	25
			10		4	1 1 1	< 0.25 P	23
					5	0 1 1	0.41 B	25
			15		6	0 0 2	0.49 B	25
					7	1 1 2	0.57 B	25
			20		8	1 2 4	0.57 B	26
			25		9	0 2 1	0.33 B	27
					10	1 1 2	< 0.25 P	30
					11	0 1 1	0.57 B	26
			30		12	0 2 2	0.57 B	25
			35		13	2 3 3	< 0.25 P	29
			40		14	2 4 6	0.98 B	24

GENERAL NOTES

Begin Drilling: **06-23-2014** Complete Drilling: **06-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **72.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 27-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.17 ft
North: 1899481.12 ft
East: 1171604.19 ft
Station: 6344+30.89
Offset: 14.5751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	537.4	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			45		15	5 7 9	4.00 P	13
			50		16	3 6 9	2.87 B	18
			55		17	4 5 9	1.72 B	24
	522.4	Stiff, gray CLAY to SILTY CLAY, trace gravel						
			60		18	2 3 3	1.07 B	28
	517.4	Medium dense to very dense, gray SILTY LOAM, trace to little gravel; damp to moist						
			65		19	8 14 14	NP	13
			70		20	24 29 50/4"	NP	19
	507.4	Dense, gray SAND, little gravel; wet to saturated						
			75		21	21 19	NP	16
	502.4	Very dense, gray SILT to SILTY LOAM; wet						
			80		22	35 50/4"	NP	21

GENERAL NOTES

Begin Drilling: **06-23-2014** Complete Drilling: **06-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **72.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 27-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.17 ft
North: 1899481.12 ft
East: 1171604.19 ft
Station: 6344+30.89
Offset: 14.5751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	31 50/5"	NP	19
			90		24	18 33 45	NP	26
			95		25		NA	
	483.2	--ROLLER BIT REFUSAL-- Boring terminated at 96.00 ft	100					

GENERAL NOTES

Begin Drilling **06-23-2014** Complete Drilling **06-23-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **72.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 27-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.64 ft
North: 1899634.17 ft
East: 1171605.63 ft
Station: 6345+83.70
Offset: 22.60 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium dense, gray GRAVELLY SAND; dry --FILL--			1	14 11 6	NP	5
	576.6	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	2 2 2	0.41 B	23
					3	1 1 1	0.41 B	26
			10		4	1 1 2	0.41 B	25
					5	1 1 2	0.25 B	25
			15		6	1 1 2	0.41 B	25
					7	1 1 1	0.41 B	17
			20		8	0 1 2	0.33 B	26
			25		9	1 1 2	0.33 B	26
					10	3 3 4	0.41 B	25
					11	1 2 2	0.41 B	26
			30		12	1 2 3	0.41 B	26
					13	2 2 2	0.16 B	26
			35		14	3 4 4	0.90 B	22
			40					

GENERAL NOTES

Begin Drilling: **06-24-2014** Complete Drilling: **06-24-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **62.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG 27-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.64 ft
North: 1899634.17 ft
East: 1171605.63 ft
Station: 6345+83.70
Offset: 22.60 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	537.9	Stiff to very stiff, gray SILTY CLAY, trace gravel						
			45		15	3 4 6	2.87 B	17
			50		16	5 5 7	1.56 B	22
			55		17	6 8 11	3.53 B	21
	522.9	Stiff, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=41, P_L(%)=19-- --%Gravel=0.3-- --%Sand=1.6-- --%Silt=51.6--	60		18	3 4 4	1.23 B	41
	517.9	--%Clay=46.5-- --A-7-6 (23)-- Dense, gray SANDY LOAM, trace gravel; moist						
	514.6	Boring terminated at 65.00 ft	65		19	8 21 21	NP	13
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **06-24-2014** Complete Drilling: **06-24-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **62.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 27-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.62 ft
North: 1899743.07 ft
East: 1171615.97 ft
Station: 6346+92.95
Offset: 12.08 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.1	6-inch thick ASPHALT --PAVEMENT--						
	577.1	12-inch thick CONCRETE --PAVEMENT--						
		Dense, gray and white CRUSHED STONE --BASE COURSE--			1	22 20 10	NP	
	575.4	Medium stiff, brown and gray SILTY CLAY LOAM, trace gravel	5		2	2 1 2	0.74 B	22
	573.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2	0.33 B	25
	570.3	--Possible Wet SAND lens--	10		4	1 1 3	0.33 B	20
					5	2 2 2	0.66 B	15
			15		6	1 1 2	0.41 B	24
					7	1 1 2	0.41 B	25
			20		8	1 1 2	0.25 B	25

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	1 1 1	0.16 B	27
		--L_L(%)=34, P_L(%)=16-- --%Gravel=3.9-- --%Sand=14.6-- --%Silt=50.6-- --%Clay=30.9-- --A-6 (13)--	25		10	1 2 2	0.25 B	26
					11	1 2 1	0.16 B	26
			30		12	1 2 3	0.33 B	26
			35		13	1 2 3	0.49 B	20
			40		14	3 5 6	0.57 B	22

GENERAL NOTES

Begin Drilling: **06-25-2014** Complete Drilling: **06-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 27-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.62 ft
North: 1899743.07 ft
East: 1171615.97 ft
Station: 6346+92.95
Offset: 12.08 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 5 6	0.33 B	20
	531.9	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			50		16	5 8 12	3.44 B	21
			55		17	4 6 7	2.38 B	25
	521.9	Medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			60		18	3 4 4	0.98 B	41
	516.9	Dense, brown and gray SANDY LOAM, trace gravel --Moist--						
	513.6	Boring terminated at 65.00 ft	65		19	16 24 25	NP	9
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **06-25-2014** Complete Drilling: **06-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 27-ST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.22 ft
North: 1899499.80 ft
East: 1171633.19 ft
Station: 8540+53.84
Offset: 1.0375 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.9	4-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM, trace to some gravel, bricks fragments --FILL--			1	5 5 3	2.50 P	20
			5		2	3 4 5	1.97 P	15
	577.7	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 2	0.90 B	19
		--S_u=0.22 tsf (UU TXC 10psi)-- --S_u=0.37 tsf (UU TXC 20psi)-- --S_u=0.15 tsf (UU TXC 40psi)--	10		1	PUSH		25
		--C_c=0.215, OCR=1.9--			2	PUSH		25
		--S_u=0.29 tsf (UU TXC 10psi)-- --S_u=0.23 tsf (UU TXC 20psi)-- --S_u=0.30 tsf (UU TXC 40psi)--	15		3	PUSH		22
					4	PUSH	NA	
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					5	PUSH	NA	
			25		6	PUSH	NA	
		--S_u=0.27 tsf (UU TXC 10psi)-- --S_u=0.29 tsf (UU TXC 20psi)-- --S_u=0.32 tsf (UU TXC 40psi)--			7	PUSH		25
			30		8	PUSH	NA	
		--S_u=0.41 tsf (UU TXC 10psi)-- --S_u=0.37 tsf (UU TXC 20psi)-- --S_u=0.41 tsf (UU TXC 40psi)--			9	PUSH		24
			35		10	PUSH	NA	
		--S_u=0.39 tsf (UU TXC 10psi)-- --S_u=0.45 tsf (UU TXC 20psi)-- --S_u=0.46 tsf (UU TXC 40psi)--			11	PUSH		24
			40					

GENERAL NOTES

Begin Drilling: **10-27-2014** Complete Drilling: **10-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Groundwater**
At Completion of Drilling: **not observed**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 27-ST-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.22 ft
North: 1899499.80 ft
East: 1171633.19 ft
Station: 8540+53.84
Offset: 1.0375 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	542.7							
		Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
		-- Laboratory Q_u=0.93 tsf--			12	PUSH	0.93 B	17
		-- Laboratory Q_u=1.38 tsf--	45		13	PUSH	1.38 B	18
	533.2		50		14	5 7 9	2.71 B	15
		Boring terminated at 50.00 ft						
			55					
			60					

GENERAL NOTES

Begin Drilling **10-27-2014** Complete Drilling **10-27-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Groundwater**
At Completion of Drilling ▼ **not observed**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 28-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.79 ft
North: 1899549.81 ft
East: 1171596.02 ft
Station: 8342+13.53
Offset: 5.5087 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.4	5-inch thick ASPHALT --PAVEMENT--						
	578.6	9-inch thick CONCRETE --PAVEMENT--						
		Dense, grayish white CRUSHED STONE; dry --BASE COURSE--			1	17 23 11	NP	4
	576.5	Stiff, gray SILTY CLAY LOAM --FILL--						
	575.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	4 3 3	0.49 B	20
					3	1 2 2	0.25 B	22
			10		4	0 1 1	0.33 B	22
					5	0 1 2	0.33 B	21
			15		6	0 0 1	0.33 B	25
					7	0 0 0	0.33 B	24
			20		8	0 0 1	0.41 B	24
			25		9	0 0 0	0.41 B	25
					10	0 0 0	0.41 B	26
					11	0 0 0	0.33 B	28
			30		12	0 0 0	0.25 B	26
	543.0	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	0 1 3	0.82 B	24
			40		14	2 4 6	1.64 B	20

GENERAL NOTES

Begin Drilling: **07-25-2014** Complete Drilling: **07-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **62.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 28-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.79 ft
North: 1899549.81 ft
East: 1171596.02 ft
Station: 8342+13.53
Offset: 5.5087 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=30, P_L(%)=16-- --%Gravel=3.5-- --%Sand=15.0-- --%Silt=51.2-- --%Clay=30.4-- --A-6 (10)--	45		15	3 5 7	2.71 B	18
			50		16	4 7 10	2.79 B	19
			55		17	5 7 15	3.77 B	22
	523.0	Very stiff, gray CLAY to SILTY CLAY, trace gravel	60		18	3 5 7	2.21 B	25

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	518.0	Medium dense, gray SILTY LOAM, trace gravel; moist						
			65		19	5 7 10	NP	22
	514.8	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-25-2014** Complete Drilling: **07-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **62.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 28-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.73 ft
North: 1899716.72 ft
East: 1171586.62 ft
Station: 6154+17.38
Offset: 60.7088 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
579.4	4-inch thick, ASPHALT --PAVEMENT--						
	17-inch thick, CONCRETE with rebar						
578.0	--PAVEMENT--						
	Medium to very dense, white CRUSHED STONE; dry --BASE COURSE--			1	19 33 28	NP	4
575.4				2	10 5 5	NP	5
	Hard, brown and gray SILTY CLAY LOAM, trace gravel	5					
574.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.41 B	21
				4	0 0 2	0.16 B	29
		10					
				5	0 0 0	0.25 B	32
				6	0 0 2	0.33 B	26
		15					
				7	0 0 1	0.33 B	23
				8	0 0 1	0.41 B	23
		20					
				9	0 0 2	0.16 B	26
		25		10	0 0 2	0.33 B	26
				11	0 0 2	0.33 B	25
		30		12	0 0 2	0.33 B	25
543.0	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	0 2 3	0.57 B	26
		40		14	2 3 4	1.07 B	22

GENERAL NOTES

Begin Drilling: **07-24-2014** Complete Drilling: **07-24-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **62.00 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 28-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.73 ft
North: 1899716.72 ft
East: 1171586.62 ft
Station: 6154+17.38
Offset: 60.7088 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	518.0	Dense, gray SANDY LOAM, trace gravel; moist						
			45		15	3 5 7	1.80 B	21
			50		16	4 5 8	2.13 B	22
			55		17	6 9 15	4.26 B	22
			60		18	6 8 12	2.95 B	17
	514.7	Boring terminated at 65.00 ft	65		19	8 20 19	NP	15
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-24-2014** Complete Drilling **07-24-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **62.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 29-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.82 ft
North: 1899679.29 ft
East: 1171674.90 ft
Station: 6346+29.02
Offset: 46.47 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black SANDY LOAM, trace slag --FILL--					
	589.8			1	8 16 17	NP	12
		Dense to very dense, brown SANDY GRAVEL --FILL--					
5				2	4 13 24	NP	8
				3	5 50/3"	NP	10
	583.1						
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel					
10				4	1 2 3	0.66 B	16
				5	0 0 0	0.25 B	27
15				6	0 0 0	0.25 B	27
				7	0 0 0	0.25 B	27
20				8	0 0 0	0.25 B	27
25				9	0 0 0	0.25 B	24
				10	0 0 0	0.66 B	25
				11	0 0 0	0.41 B	26
30				12	0 1 2	0.25 P	26
		--L_L(%)=34, P_L(%)=17-- --%Gravel=10.0-- --%Sand=13.8-- --%Silt=47.8-- --%Clay=28.5-- --A-6 (11)--		13	0 0 0	0.33 B	27
35							
40				14	0 0 0	0.41 B	27

GENERAL NOTES

Begin Drilling: **06-17-2014** Complete Drilling: **06-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10',mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 29-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.82 ft
North: 1899679.29 ft
East: 1171674.90 ft
Station: 6346+29.02
Offset: 46.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 2 2	0.57 B	23
			50		16	2 3 3	0.66 B	27
	540.1	Stiff, gray SILTY CLAY LOAM, trace gravel						
			55		17	3 4 6	1.48 B	21
	535.1	Stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel --L_L(%)=24, P_L(%)=14-- --%Gravel=5.8-- --%Sand=19.4-- --%Silt=57.2--						
			60		18	4 9 8	1.75 P	16

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=17.6-- --A-4 (5)--						
	530.1	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			65		19	4 7 13	2.30 B	18
	526.8	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **06-17-2014** Complete Drilling: **06-17-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10',mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 29-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.63 ft
North: 1899746.45 ft
East: 1171670.23 ft
Station: 6346+95.65
Offset: 42.22 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.2	5-inch thick, black LOAM --TOPSOIL--						
		Medium dense, gray and black SANDY LOAM, trace slag --FILL--			1	5 8 8	NP	14
	590.6	Loose to very dense, brown SANDY GRAVEL --FILL--	5		2	9 13 31	NP	10
					3	7 8 50/4"	NP	11
		--HARD DRILLING--	10		4	25 5 4	NP	6
	583.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	0 0 0	0.41 B	26
			15					
			20		1	P U S	0.25	22
			25			H	P	
		--UC test-- --Shear strength (Cu) = 320 psf--	30		2	P U S H	0.25 P	25
			35					
			40		3	P U S	0.25	26

GENERAL NOTES

Begin Drilling: **06-16-2014** Complete Drilling: **06-16-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 29-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.63 ft
North: 1899746.45 ft
East: 1171670.23 ft
Station: 6346+95.65
Offset: 42.22 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
						H	P	
			45					
			50		4	P U S H	0.75 P	25
	541.6	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			55		6	3 5 6	1.39 B	20
			60		7	6 8 11	2.54 B	15

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			65		8	4 6 10	2.13 B	20
	528.6	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **06-16-2014** Complete Drilling **06-16-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 30-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.54 ft
North: 1899863.46 ft
East: 1171695.35 ft
Station: 8545+20.14
Offset: 45.6914 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.2	4-inch thick, ASPHALT --PAVEMENT--						
	592.5	8-inch thick, CONCRETE --PAVEMENT--						
	592.0	6-inch thick, loose black SANDY LOAM, little gravel --FILL--						
		Loose, brownish red SANDY GRAVEL, trace brick fragments --FILL--	5		1	4 3 5	NP	12
					2	3 3 2	NP	14
	588.0	Loose, black SANDY LOAM, little gravel --FILL--			3	4 3 3	NP	17
	585.5	Loose to medium dense, brown GRAVELLY SAND, trace brick fragments --FILL--	10		4	3 4 3	NP	15
					5	15 9 7	NP	22
	580.5	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	15		6	0 1 0	0.33 B	25
					7	0 0 0	0.16 B	25
			20		8	0 0 0	0.16 B	27
			25		9	0 0 0	0.16 B	26
					10	0 0 0	0.16 B	25
					11	0 0 0	0.16 B	25
			30		12	0 0 2	0.33 B	24
			35		13	0 1 2	< 0.25 P	31
			40		14	0 0 2	0.08 B	27

GENERAL NOTES

Begin Drilling: **07-24-2014** Complete Drilling: **07-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 30-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.54 ft
North: 1899863.46 ft
East: 1171695.35 ft
Station: 8545+20.14
Offset: 45.6914 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 0	0.25 B	26
			50		16	0 0 1	0.33 B	25
			55		17	2 5 6	0.25 B	23
	536.8	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace to some gravel	60		18	4 7 10	1.72 B	19
			65		19	5 9 12	3.50 N/6	25
			70		20	7 12 15	2.87 B	19
			75		21	4 5 7	1.39 B	25
			80		22	11 11 10	0.16 B	27

GENERAL NOTES

Begin Drilling **07-24-2014** Complete Drilling **07-27-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 30-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.54 ft
North: 1899863.46 ft
East: 1171695.35 ft
Station: 8545+20.14
Offset: 45.6914 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	511.8	Very dense, gray SILT, trace gravel						
			85		23	30 45 25/3	NP	19
	506.8	Gray fine SAND; moist						
	504.5	Very dense, gray SILTY LOAM, trace gravel						
			90		24	20 28 36	NP	17
			95		25	52/6	NP	12
			100		26	36 50/5	NP	10
			105		27	50/6	NP	9
			110		28	18 24 35	NP	10
	482.0	Strong, light gray, poor rock mass quality, bedded slightly weathered DOLOSTONE, with shale partings, up to 18-inch beds, <2-inch spaced joints, horizontal joints with none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.			1			
	480.0	Run 1 - RECOVERY = 100% RQD = 21%	115					
		Boring terminated at 113.50 ft	120					

GENERAL NOTES

Begin Drilling: **07-24-2014** Complete Drilling: **07-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 30-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.36 ft
North: 1900001.45 ft
East: 1171691.10 ft
Station: 8546+56.85
Offset: 31.0382 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.1	3-inch thick, ASPHALT 21-inch thick, CONCRETE and BRICK						
	591.4	Loose to very dense, brown and gray LOAM to SANDY LOAM, little gravel and brick fragments --FILL--			1	2 3 5	NP	16
			5		2	5 19 5	NP	19
					3	50/3	NP	16
	586.1	Medium dense, gray SANDY GRAVEL --FILL--			4	5 6 5	NP	
			10					
	582.9	Stiff, gray and brown, SILTY CLAY, trace gravel			5	2 3 4	1.72 B	24
	580.4	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			6	1 2 2	0.49 B	24
			15		7	0 0 2	0.41 B	21
			20		8	0 0 1	0.41 B	26
			25		9	1 2 2	0.25 B	22
					10	0 2 4	0.33 B	24
					11	3 2 3	0.41 B	26
			30		12	2 2 2	0.49 B	25
			35		13	0 2 3	0.33 B	26
			40		14	2 3 2	0.41 B	25

GENERAL NOTES

Begin Drilling: **07-24-2014** Complete Drilling: **07-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 30-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.36 ft
North: 1900001.45 ft
East: 1171691.10 ft
Station: 8546+56.85
Offset: 31.0382 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 3 4	0.49 B	25
			50		16	3 4 4	0.49 B	25
	541.6	Very stiff, gray SILTY CLAY, trace gravel						
			55		17	7 10 13	2.79 B	21
			60		18	6 10 13	2.95 B	17

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	528.4	Boring terminated at 65.00 ft	65		19	5 11 18	2.87 B	19
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-24-2014** Complete Drilling: **07-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 30-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.35 ft
North: 1900153.32 ft
East: 1171655.49 ft
Station: 8548+48.97
Offset: 16.2238 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.1	3-inch thick ASPHALT --PAVEMENT--						
	590.3	9-inch thick CONCRETE --PAVEMENT--						
		Loose to medium dense, black, brown, and white SANDY GRAVEL, trace brick fragments --FILL--			1	5 6 5	NP	6
			5		2	4 4 3	NP	9
					3	6 3 2	NP	12
	583.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	1 1 3	0.98 B	22
			10		5	1 1 1	0.41	24
		--L_L(%)=32, P_L(%)=17-- --%Gravel=3.2-- --%Sand=19.5-- --%Silt=49.2-- --%Clay=28.1-- --A-6 (10)--	15		1	P U S H	< 0.25 P	25
			20		2	P U S	< 0.25	23
			25		3	P U S H	0.25 P	18
		--L_L(%)=34, P_L(%)=17-- --%Gravel=5.1-- --%Sand=16.3-- --%Silt=48.1-- --%Clay=30.5-- --A-6 (12)-- --CU test-- --Shear strength (Cu) = 340 psf--	30		4	P U S H	< 0.25 P	24
		--UC test-- --Shear strength (Cu) = 480 psf--	35		5	P U S H	< 0.25 P	26
			40		6	P U S	< 0.25	27

GENERAL NOTES

Begin Drilling: **06-25-2014** Complete Drilling: **06-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA to 10',mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 30-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 591.35 ft
North: 1900153.32 ft
East: 1171655.49 ft
Station: 8548+48.97
Offset: 16.2238 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
						H	P	
			45		7	P U S H	< 0.25 P	26
	544.3	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace to some gravel						
			50		8	P U S H	1.00 P	21
			55		6	5 6 10	2.67 N/6	22
			60		7	4 5 6	1.56 B	20
			65					
	526.3	Boring terminated at 65.00 ft						
			70					
			75					
			80					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			65		8	5 10 16	4.18 B	20

GENERAL NOTES

Begin Drilling **06-25-2014** Complete Drilling **06-25-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" IDA HSA to 10',mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.25 ft
North: 1899899.70 ft
East: 1171625.80 ft
Station: 8545+50.88
Offset: 26.4632 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.8	6-inch thick, ASPHALT --PAVEMENT--						
		18-inch thick, CONCRETE --PAVEMENT--						
	578.3	Dense, gray and white CRUSHED STONE --BASE COURSE--			1	9 19 13	NP	3
	576.9	Stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--	5		2	2 1 2	1.00 P	19
	574.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2	0.57 B	26
			10		4	1 2 3	0.25 B	32
					5	0 0 1	0.25 B	26
			15		6	0 2 1	0.25 B	26
					7	1 1 2	0.16 B	26
			20		8	1 1 2	0.16 B	25
			25		9	1 1 1	0.16 B	22
					10	1 1 2	0.25 B	26
					11	1 2 3	0.41 B	26
			30		12	1 3 2	0.49 B	25
	543.5	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35		13	2 2 3	0.49 B	26
			40		14	3 4 5	1.64 B	24

GENERAL NOTES

Begin Drilling: **06-25-2014** Complete Drilling: **06-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.25 ft
North: 1899899.70 ft
East: 1171625.80 ft
Station: 8545+50.88
Offset: 26.4632 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 6 9	2.71 B	18
			50		16	4 4 7	1.72 B	17
	528.5	Stiff to very stiff, gray CLAY, trace gravel --L_L(%)=39, P_L(%)=18-- --%Gravel=3.1-- --%Sand=5.7-- --%Silt=48.1-- --%Clay=43.0-- --A-6 (19)--	55		17	5 7 9	3.36 B	24
			60		18	7 8 9	1.00 P	28
	518.5	Very stiff, gray SILTY CLAY, trace gravel						
	515.3	Boring terminated at 65.00 ft	65		19	8 10 12	2.46 B	22
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **06-25-2014** Complete Drilling **06-26-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.94 ft
North: 1900047.77 ft
East: 1171641.00 ft
Station: 8547+00.89
Offset: 20.9256 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.4	6-inch thick ASPHALT --PAVEMENT--						
		18-inch thick CONCRETE --PAVEMENT--						
	584.9	Medium dense, gray and white CRUSHED STONE --BASE COURSE--			1	12 14 7	NP	
	583.4	Stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--	5		2	2 2 3	1.89 B	24
	581.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 1	0.66 B	26
			10		4	0 2 1	0.08 B	27
					5	1 1 1	0.16 B	28
			15		6	0 0 1	0.16 B	27
					7	1 1 2	0.16 B	20
			20		8	1 2 1	0.33 B	26
			25		9	1 1 1	0.25 B	27
					10	1 2 1	0.50 N/6	
			30		11	2 1 2	0.33 B	26
					12	1 2 3	0.33 B	25
			35		13	2 2 3	0.83 N/6	
			40		14	1 2 2	0.25 P	30

GENERAL NOTES

Begin Drilling: **06-24-2014** Complete Drilling: **06-24-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.94 ft
North: 1900047.77 ft
East: 1171641.00 ft
Station: 8547+00.89
Offset: 20.9256 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	545.2	Medium stiff to very stiff, gray SILTY CLAY, trace gravel						
			45		15	3 3 3	1.07 B	22
			50		16	4 6 9	1.80 B	22
			55		17	4 6 10	0.90 B	16
			60		18	10 8 10	3.28 B	16
	521.9	Boring terminated at 65.00 ft	65		19	4 5 7	1.64 B	26
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 31-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1900194.50 ft
East: 1171641.58 ft
Station: 8547+50.12
Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.9	3-inch thick ASPHALT --PAVEMENT--						
	592.1	9-inch thick CONCRETE --PAVEMENT--						
		Medium dense, brownish red and gray GRAVELLY SAND, trace gravel and brick fragments --FILL--			1	17 10 7	NP	
			5		2	3 4 8	NP	4
					3	11 12 12	NP	13
			10		4	3 5 6	NP	14
	582.6	Soft to medium stiff, gray CLAY LOAM, trace gravel --FILL--			5	0 1 1	0.50 P	25
			15		6	4 2 3	0.25 P	19
	577.6	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 0 0	0.25 B	27
			20		8	0 0 1	0.25 B	28
			25		9	0 1 3	0.49 B	22
					10	1 2 2	0.33 B	26
					11	0 1 2	0.41 B	26
		--L_L(%)=30, P_L(%)=16-- --%Gravel=4.5-- --%Sand=13.5-- --%Silt=53.2-- --%Clay=28.8-- --A-6 (10)--	30		12	1 1 2	0.33 B	28
			35		13	0 0 2	0.33 B	28
	556.4	Medium dense, brownish gray SANDY LOAM, trace gravel --Wet--						
			40		14	3 7 9	NP	20

GENERAL NOTES

Begin Drilling: **06-24-2014** Complete Drilling: **06-24-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1900194.50 ft
East: 1171641.58 ft
Station: 8547+50.12
Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	551.4							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	45		15	1 2 3	0.74 B	24
			50		16	3 2 4	< 0.25 P	30
	541.4							
		Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	55		17	2 5 7	1.72 B	23
			60		18	4 6 8	1.50 P	22
			65		19	4 8 12	1.50 P	21
			70		20	5 8 10	2.21 B	26
			75		21	1 4 5	1.39 B	28
	513.6	Very dense, gray SILTY LOAM,	80		22	7 17 35	2.46 B	11

GENERAL NOTES

Begin Drilling: **06-24-2014** Complete Drilling: **06-24-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 31-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1900194.50 ft
East: 1171641.58 ft
Station: 8547+50.12
Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		trace gravel						
			85		23	37 50/3	NP	19
	506.4							
		Very dense, gray, fine to medium SAND, trace gravel						
			90		24	20 25 25	NP	10
			95		25	16 25 28	NP	19
			100		26	29 34 39	NP	19

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	491.4							
		Very dense, gray SILTY LOAM to SILT						
			105		27	28 28 45	NP	24
	486.4							
		Very dense, gray SILT to fine SAND						
			110		28	27 39 34	NP	17
	480.6							
		Strong, light gray, poor rock mass quality, bedded slightly weathered DOLOSTONE, with shale partings, up to 20-inch beds, 3-inch spaced joints, horizontal and vertical joints with none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	115			C O R E		
		Run 1 - RECOVERY = 100% RQD = 38%			1			
			120					

GENERAL NOTES

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.12 ft
North: 1900194.50 ft
East: 1171641.58 ft
Station: 8547+50.12
Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	470.6	Boring terminated at 122.50 ft	125					
			130					
			135					
			140					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 32-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.40 ft
North: 1900327.19 ft
East: 1171617.41 ft
Station: 8680+61.64
Offset: 3.3374 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.1	4-inch thick, ASPHALT --PAVEMENT--						
	576.2	11-inch thick, CONCRETE --PAVEMENT--						
	575.7	CRUSHED STONE --BASE COURSE--			1	3 2 3	2.25 P	19
		Stiff, gray SILTY CLAY, trace gravel and brick fragments --FILL--			2	3 3 4	1.17 N/6	
	572.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 2	0.25 B	22
		--In-Situ Vane Shear, 9.5 feet-- --$S_{u\ undis}$ = 725.2 psf-- --$S_{u\ remold}$ = 440.3 psf-- --Sensitivity = 1.65--	10		1	VS		
		--In-Situ Vane Shear, 14.5 feet-- --$S_{u\ undis}$ = 699.3 psf-- --$S_{u\ remold}$ = 362.6 psf-- --Sensitivity = 1.93--	15		2	VS		
		--In-Situ Vane Shear, 19.5 feet-- --$S_{u\ undis}$ = 802.9 psf--	20		3			
		--$S_{u\ remold}$ = 440.3 psf-- --Sensitivity = 1.82--				VS		
		--In-Situ Vane Shear, 24.5 feet-- --$S_{u\ undis}$ = 984.2 psf-- --$S_{u\ remold}$ = 466.2 psf-- --Sensitivity = 2.11--	25		4	VS		
		--In-Situ Vane Shear, 29.5 feet-- --$S_{u\ undis}$ = 1450.4 psf-- --$S_{u\ remold}$ = 751.1 psf-- --Sensitivity = 1.93--	30		5	VS		
					4	4 4 5	0.82 B	25
	540.7	Stiff to very stiff, gray SILTY CLAY, trace gravel	35		5	3 4 6	0.74 B	20
			40		6	3 5 6	1.31 B	22

GENERAL NOTES

Begin Drilling: **07-02-2014** Complete Drilling: **07-02-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 9.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 32-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.40 ft
North: 1900327.19 ft
East: 1171617.41 ft
Station: 8680+61.64
Offset: 3.3374 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Interbedded SILT--	45		7	5 6 5	3.44 B	17
			50		8	4 6 7	1.64 B	17
	525.7	Very stiff, gray CLAY, trace gravel						
			55		9	5 6 11	2.46 B	24
	520.7	Very stiff, gray SILTY CLAY LOAM						
		--Interbedded SILT and SAND, saturated--	60		10	3 4 4	2.00 P	15
	515.7	Very dense, gray SILTY LOAM, trace gravel --Wet--						
	512.4	Boring terminated at 65.00 ft	65		11	22 28 37	NP	16
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-02-2014** Complete Drilling: **07-02-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 9.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 32-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.52 ft
North: 1900472.26 ft
East: 1171630.21 ft
Station: 8682+07.13
Offset: 3.8668 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.5	12-inch thick ASPHALT --PAVEMENT--						
		Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			1	3 1 2	2.05 B	22
	580.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 2 1	0.25 P	25
			5		3	2 2 1	0.25 B	21
			10		4	2 3 3	< 0.25 P	22
					5	1 1 1	0.16 B	28
			15		6	1 1 2	0.41 B	23
					7	1 1 2	0.33 B	23
			20		8	1 1 1	0.25 B	27
			25		9	1 1 1	0.08 B	25
					10	1 1 2	0.33 B	27
					11	1 1 1	0.25 B	28
			30		12	0 1 2	0.25 B	26
	551.8	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			13	2 3 3	1.00 N/6	
			35					
					14	3 4 5	1.72 B	15
			40					

GENERAL NOTES

Begin Drilling: **06-26-2014** Complete Drilling: **06-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 32-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.52 ft
North: 1900472.26 ft
East: 1171630.21 ft
Station: 8682+07.13
Offset: 3.8668 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	526.8	Stiff to very stiff, gray CLAY, trace gravel	45		15	3 4 4	1.56 B	22
			50		16	4 3 5	1.39 B	23
			55		17	5 6 8	2.62 B	20
			60		18	5 6 6	2.62 B	28
	518.5	Boring terminated at 65.00 ft	65		19	5 6 7	1.25 P	32
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **06-26-2014** Complete Drilling **06-26-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 32-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 590.67 ft
North: 1900619.59 ft
East: 1171621.95 ft
Station: 8683+53.96
Offset: 10.7621 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	590.3	4.5-inch thick ASPHALT --PAVEMENT--						
	589.5	9.5-inch thick CONCRETE --PAVEMENT--						
		Loose, brown and white CRUSHED STONE --BASE COURSE--			1	6 8 3	NP	7
	587.4	Medium stiff, brown SILTY CLAY, trace gravel and brick fragments --FILL--	5		2	3 3 4	0.50 P	22
					3	3 3 9	0.57 B	24
		--Obstruction at 8.5 feet--						
	582.2	Boring terminated at 8.50 ft	10					
			15					
			20					

GENERAL NOTES

Begin Drilling **06-30-2014** Complete Drilling **06-30-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 32-ST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.90 ft
North: 1900516.46 ft
East: 1171630.30 ft
Station: 8682+51.29
Offset: 2.0492' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.6	4-inch thick, ASPHALT --PAVEMENT--						
	584.9	8-inch thick, CONCRETE --PAVEMENT--						
		Loose, gray GRAVELLY SAND --BASE COURSE--			1	4 4 2	NP	4
	583.4	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 4 4	2.25 P	16
	580.4	Soft, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 2	0.33 B	25
		--UU test-- --Shear Strength(C_U)=288 psf--	10		1	PUSH	0.50 P	25
					2	PUSH	<0.25 P	26
		--UU test-- --Shear Strength(C_U)=576 psf--	15		3	PUSH	<0.25 P	24
			20		4	PUSH	<0.25 P	24
		--C_c = 0.212, OCR=1.03--	25		5	PUSH	<0.25 P	27
					6	PUSH	<0.25 P	26
		--UU test-- --Shear Strength(C_U)=576 psf--			7	PUSH	<0.25 P	25
			30		8	PUSH	<0.25 P	24
		--UU test-- --Shear Strength(C_U)=720 psf--			9	PUSH	0.50 P	24
			35		10	PUSH	0.75 P	25
	547.9	Boring terminated at 38.00 ft	40					

GENERAL NOTES

Begin Drilling: **10-20-2014** Complete Drilling: **10-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **GLM (-coord, lab)**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 33-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.44 ft
North: 1900575.06 ft
East: 1171619.65 ft
Station: 8683+09.37
Offset: 11.1322 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.1	4-inch thick ASPHALT --PAVEMENT--						
	586.9	14-inch thick CONCRETE --PAVEMENT--						
		Loose to medium dense, brown and white CRUSHED STONE --BASE COURSE--			1	10 9 8	NP	4
			5		2	4 2 2	NP	4
	582.9	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	2 3 3	1.00 N/6	
			10		4	1 2 2	0.16 B	27
					5	4 3 1	< 0.25 P	26
			15		6	1 1 1	0.16 B	27
					7	1 1 1	0.16 B	21
			20		8	1 1 1	0.25 B	26
			25		9	1 1 1	0.16 B	25
					10	1 1 2	0.25 B	26
					11	1 1 1	0.25 B	26
			30		12	1 1 2	0.33 B	26
			35		13	1 2 2	< 0.25 P	26
			40		14	2 3 3	0.41 B	24

GENERAL NOTES

Begin Drilling: **06-29-2014** Complete Drilling: **06-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **N&K** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 33-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 588.44 ft
North: 1900575.06 ft
East: 1171619.65 ft
Station: 8683+09.37
Offset: 11.1322 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	546.7	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			45		15	3 4 4	1.07 B	12
			50		16	3 5 6	1.39 B	21
			55		17	5 7 7	1.64 B	20
			60		18	3 5 8	1.89 B	17
	523.4	Boring terminated at 65.00 ft	65		19	4 6 7	1.97 B	19
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **06-29-2014** Complete Drilling **06-29-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 33-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.96 ft
North: 1900708.05 ft
East: 1171630.08 ft
Station: 8684+42.69
Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.5	5-inch thick ASPHALT --PAVEMENT--						
	593.0	7-inch thick CONCRETE --PAVEMENT--						
		Medium dense, grayish white SANDY GRAVEL --FILL--			1	7 13 17	NP	3
			5		2	8 5 4	NP	4
	587.3	Loose, brown, fine SAND, trace gravel --FILL--			3	3 3 3	NP	5
	586.0	Grayish white SANDY GRAVEL --FILL--			4	3 3 3	0.50 P	19
	584.5	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL--	10					
	582.2	Medium dense, grayish white SANDY GRAVEL --FILL--			5	3 2 3	NR	
			15		6	8 11 16	NP	9
	578.5	Stiff, brown and gray SILTY CLAY LOAM to SILTY CLAY, trace gravel			7	1 2 4	1.23 B	24
	576.0	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			8	1 2 2	< 0.25 P	30
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		$--L_L(\%)=39$, $P_L(\%)=18$-- --%Gravel=5.1-- --%Sand=13.2-- --%Silt=42.2-- --%Clay=39.5-- --A-6 (17)--			9	0 0 0	0.41 B	31
			25		10	0 0 1	< 0.25 P	32
					11	0 0 0	0.49 B	27
			30		12	0 1 2	< 0.25 P	28
			35		13	0 0 1	0.41 B	26
			40		14	0 0 0	0.41 B	27

GENERAL NOTES

Begin Drilling: **07-01-2014** Complete Drilling: **07-02-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 33-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.96 ft
North: 1900708.05 ft
East: 1171630.08 ft
Station: 8684+42.69
Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 2	0.74 B	25
			50		16	0 1 4	0.66 B	25
	540.0	Stiff to very stiff, gray SILTY CLAY, trace gravel	55		17	2 7 4	0.90 B	22
			60		18	1 5 6	1.31 B	22
			65		19	3 7 9	1.97 B	20
			70		20	3 7 9	2.46 B	20
			75		21	2 5 7	1.56 B	25
	515.3	Hard, gray SILTY LOAM, trace gravel	80		22	39 50/3	4.43 S	10

GENERAL NOTES

Begin Drilling **07-01-2014** Complete Drilling **07-02-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
At Completion of Drilling **mud in the borehole**
Time After Drilling **NA**
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 33-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.96 ft
North: 1900708.05 ft
East: 1171630.08 ft
Station: 8684+42.69
Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=23, P_L(%)=12--						
		--%Gravel=6.9--						
		--%Sand=20.1--						
		--%Silt=57.0--						
		--%Clay=15.9--	85		23	24 37 40	10.25 S	11
		--A-6 (5)--						
	507.2	Medium dense, gray SILT						
		--wet--						
			90		24	10 10 14	NP	26
	500.2	Very stiff, brown, fine SAND and SILT						
		--wet--	95		25	22 44 38/4	NP	14
	497.2	Very dense, gray SILTY LOAM, trace gravel						
		--damp--						
					26	50/5	NP	9
		--Dolostone fragments--						
		--possible cobbles and boulders--	100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING--						
		--possible hardpan--						
		Run 1 - RECOVERY = 0%						
		RQD = 0%			1	CORE		
			105					
		--possible hardpan--						
		Run 2 - RECOVERY = 0%						
		RQD = 0%			2	CORE		
			110					
	483.0	--HARD DRILLING--						
		--frequent rig chatter--						
		--possible WEATHERED BEDROCK--						
	481.5	Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, up to 20-inch beds, 9-inch spaced joints, horizontal joints with none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	115					
		Run 3 - RECOVERY = 100%						
		RQD = 86%			3	CORE		
			120					

GENERAL NOTES

Begin Drilling: **07-01-2014** Complete Drilling: **07-02-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 33-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.96 ft
North: 1900708.05 ft
East: 1171630.08 ft
Station: 8684+42.69
Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--drilling water loss--						
	471.5	Boring terminated at 122.50 ft						
			125					
			130					
			135					
			140					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **07-01-2014** Complete Drilling **07-02-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 34-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.30 ft
North: 1899974.61 ft
East: 1171509.36 ft
Station: 6156+73.72
Offset: 21.5607 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
577.0	4-inch thick, ASPHALT 14-inch thick, CONCRETE						
575.3	Dense, white CRUSHED STONE --BASE COURSE-- --DRY--			1	23 25 15	NP	6
573.8	Stiff, gray and brown SILTY CLAY LOAM, trace gravel	5		2	1 2 3	1.23 B	19
571.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 1 3	0.41 B	18
		10					
	--In-Situ Vane Shear, 11.5 feet-- --$S_{u\ undis}$ = 1010 psf-- --$S_{u\ remold}$ = 544 psf-- --Sensitivity = 1.86--			1			
		15		4	0 1 2	0.49 B	25
	--In-Situ Vane Shear, 19.0 feet-- --$S_{u\ undis}$ = 803 psf-- --$S_{u\ remold}$ = 363 psf-- --Sensitivity = 2.12--			2			
		20					
552.8	Medium stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	25		5	0 0 2	0.41 B	24
	--In-Situ Vane Shear, 26.5 feet-- --$S_{u\ undis}$ = 1140 psf-- --$S_{u\ remold}$ = 673 psf-- --Sensitivity = 1.69--			3			
		30		6	1 1 3	0.90 B	15
	--In-Situ Vane Shear, 34.0 feet-- --$S_{u\ undis}$ = 1165 psf-- --$S_{u\ remold}$ = 544 psf-- --Sensitivity = 2.13--			4			
		35					
		40		7	5 10 14	2.21 B	20

GENERAL NOTES

Begin Drilling: **07-21-2014** Complete Drilling: **07-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **19.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 34-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.30 ft
North: 1899974.61 ft
East: 1171509.36 ft
Station: 6156+73.72
Offset: 21.5607 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	525.6	Stiff, gray SILTY CLAY, trace gravel	45		8	2 4 6	1.89 B	17
			50		9	5 6 13	3.28 B	21
			55		10	5 5 8	1.97 B	27
	520.6	Stiff, gray SILTY CLAY LOAM, trace gravel	60		11	4 5 11	1.75 P	19
	515.6	Very dense, gray SILTY LOAM --Moist--	65		12	19 22 36	1.25 P	23
	512.3	Boring terminated at 65.00 ft	70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-21-2014** Complete Drilling: **07-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **A&K** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **19.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 35-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.57 ft
North: 1900019.05 ft
East: 1171479.36 ft
Station: 8562+48.73
Offset: 6.7436 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.1	6-inch thick, ASPHALT --PAVEMENT--						
	585.6	6-inch thick, CONCRETE --PAVEMENT--						
	584.4	White CRUSHED STONE --BASE COURSE--						
		Medium dense, brown, fine SAND, trace gravel --FILL--			1	3 5 6	NP	3
			5		2	6 6 7	NP	3
	579.7	Loose, grayish white SANDY GRAVEL --FILL--			3	4 3 3	NP	3
			10		4	1 2 2	NP	3
					5	2 2 2	NR	
	572.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	15		6	5 3 2	0.30 P	22
					7	0 1 2	0.08 B	23
			20		8	0 0 1	0.33 B	25
			25		9	0 1 2	0.33 B	25
					10	0 1 2	< 0.25 P	25
					11	0 0 1	< 0.25 P	26
			30		12	1 4 5	0.49 B	25
			35		13	0 3 2	0.41 B	24
			40		14	1 2 3	0.66 B	26

GENERAL NOTES

Begin Drilling: **07-07-2014** Complete Drilling: **07-08-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 35-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.57 ft
North: 1900019.05 ft
East: 1171479.36 ft
Station: 8562+48.73
Offset: 6.7436 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 4 7	0.50 P	23
	539.8	Very stiff, gray SILTY CLAY, trace gravel						
			50		16	5 7 10	2.13 B	23
			55		17	5 7 8	2.50 N/6	25
			60		18	5 10 16	2.00 P	22
			65		19	4 7 9	2.79 B	25
	517.6	Very dense, gray SILTY LOAM, trace to some gravel						
			70		20	8 10 11	3.50 N/6	16
			75		21	38 52 10/1	NP	13
	509.8	Very dense, gray GRAVELLY SAND --Moist--						
			80		22	32 40 38/5	NP	10

GENERAL NOTES

Begin Drilling **07-07-2014** Complete Drilling **07-08-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 35-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.57 ft
North: 1900019.05 ft
East: 1171479.36 ft
Station: 8562+48.73
Offset: 6.7436 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	499.8	Dense to very dense, gray, fine to medium SAND, trace gravel --Moist--						
			85		23	19 33 33	NP	4
		--possible underpressure groundwater bearing layer--	90		24	20 26 25	NP	12
		--Wet--	95		25	15 14 18	NP	20
			100		26	16 29 27	NP	18
	484.8	Very dense, gray GRAVELLY SAND --Wet--			27	50/5	NP	18
	481.6	Strong, light gray, poor rock mass quality, bedded DOLOSTONE, up to 6-inch beds, 3-inch spaced joints, horizontal joints with none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	105		1			
	478.6	--Run 1- RECOVERY= 97%-- --RQD= 32%-- Boring terminated at 108.00 ft	110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **07-07-2014** Complete Drilling: **07-08-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 35-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.37 ft
North: 1899923.16 ft
East: 1171484.85 ft
Station: 8563+44.20
Offset: 12.9370 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.0	4-inch thick ASPHALT --PAVEMENT--						
	579.2	10-inch thick CONCRETE --PAVEMENT--						
		Loose to dense, gray CRUSHED STONE --FILL--			1	9 30 12	NP	9
					2	4 5 4	NP	4
	574.9	Soft to medium stiff, brown CLAY to SILTY CLAY, trace gravel	5		3	0 0 0	0.41 B	21
		--Wet SAND lens--			4	0 0 0	0.33 B	27
			10		5	0 0 0	0.25 B	27
			15		6	0 0 0	0.66 B	25
					7	0 0 0	0.66 B	24
			20		8	0 0 0	0.74 B	25
			25		9	0 0 0	0.49 B	24
					10	0 0 0	0.49 B	25
			30		11	0 0 0	0.57 B	25
					12	0 0 0	0.49 B	25
	543.6	Stiff to hard, gray SILTY CLAY, trace to little gravel	35		13	0 0 0	0.41 B	26
			40		14	3 4 4	1.33 N/6	

GENERAL NOTES

Begin Drilling: **07-08-2014** Complete Drilling: **07-08-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **A&K** Logger: **A. Mohammed** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG 35-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.37 ft
North: 1899923.16 ft
East: 1171484.85 ft
Station: 8563+44.20
Offset: 12.9370 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 5 5	1.97 B	19
			50		16	4 5 5	1.72 B	16
			55		17	7 7 11	4.51 B	20
	523.6	Stiff, gray CLAY to SILTY CLAY, trace gravel	60		18	2 2 3	1.23 B	29
	518.6	Stiff, gray SILTY CLAY LOAM, trace gravel						
	515.4	Boring terminated at 65.00 ft	65		19	4 7 5	1.07 B	13
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **07-08-2014** Complete Drilling **07-08-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **8.00 ft**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 36-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.00 ft
North: 1899631.31 ft
East: 1171348.77 ft
Station: 8385+16.06
Offset: 6.8052 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick, CONCRETE						
	580.8							
		Loose to very dense, gray and white, SANDY GRAVEL --FILL-- --Dry--			1	50/6	NP	7
					2	8 4 4	NP	11
	576.5		5					
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.41 B	24
					4	0 1 2	0.25 B	24
			10					
					5	0 2 2	0.41 B	21
					6	0 0 0	0.33 B	25
			15					
					7	0 0 0	0.33 B	23
					8	0 0 0	0.33 B	25
			20					
			25		9	0 1 2	< 0.25 P	34
					10	0 1 2	< 0.25 P	31
					11	0 1 2	< 0.25 P	34
			30		12	1 2 3	< 0.25 P	26
					13	1 2 3	< 0.25 P	27
			35					
					14	3 3 3	0.41 B	21
			40					

GENERAL NOTES

Begin Drilling: **07-21-2014** Complete Drilling: **07-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 36-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.00 ft
North: 1899631.31 ft
East: 1171348.77 ft
Station: 8385+16.06
Offset: 6.8052 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.2							
		Very stiff to hard, gray SILTY CLAY LOAM, trace gravel						
			45		15	4 8 9	2.79 B	16
			50		16	4 6 13	2.46 B	16
			55		17	6 12 18	5.00 N/6	21
	525.2							
		Very stiff, gray CLAY to SILTY CLAY, trace gravel						
			60		18	5 7 10	2.38 B	23

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	517.7							
		Medium stiff, gray SILTY LOAM, trace gravel	65		19	2 6 10	0.66 B	18
	517.0	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-21-2014** Complete Drilling: **07-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 36-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.64 ft
North: 1899488.20 ft
East: 1171348.10 ft
Station: 8386+59.80
Offset: 15.2402 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick, CONCRETE						
	588.5							
		Dense, grayish brown SANDY GRAVEL --FILL-- --Dry--			1	22 17 13	NP	9
	586.6							
		Very loose to medium dense, brown, fine to medium SAND, trace gravel --FILL-- --Dry--	5		2	7 9 9	NP	6
					3	3 2 2	NP	5
			10		4	0 0 0	NP	7
		--SILTY CLAY interbeds--			5	15 2 3	NP	17
	576.6							
		Very soft to soft, gray CLAY to SILTY CLAY, trace to little gravel	15		6	0 1 0	0.16 B	25
					7	0 0 0	0.16 B	20
			20		8	0 0 0	0.25 B	22
			25		9	0 0 0	0.25 B	23
					10	0 0 0	< 0.25 P	26
					11	0 0 0	< 0.25 P	29
			30		12	0 0 0	0.25 B	25
			35		13	0 0 0	< 0.25 P	30
			40		14	0 1 1	< 0.25 P	29

GENERAL NOTES

Begin Drilling: **07-22-2014** Complete Drilling: **07-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 36-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.64 ft
North: 1899488.20 ft
East: 1171348.10 ft
Station: 8386+59.80
Offset: 15.2402 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	547.9							
		Stiff, gray SILTY CLAY LOAM, trace gravel						
			45		15	4 4 5	1.89 B	15
	542.9							
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel						
			50		16	2 4 5	0.82 B	21
	537.9							
		Stiff to very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			55		17	3 4 8	1.56 B	18
			60		18	5 9 12	2.87 B	19

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	524.6		65		19	9 10 11	3.61 B	15
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-22-2014** Complete Drilling: **07-22-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 37-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.73 ft
North: 1899214.79 ft
East: 1171327.81 ft
Station: 8311+66.54
Offset: 22.2819 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.1	8-inch thick, CONCRETE --PAVEMENT--						
		Loose, gray GRAVELLY SAND --FILL--			1	5 4 3	NP	3
			5		2	3 3 3	NP	6
	588.2	Stiff to very stiff, gray SILTY CLAY, trace gravel			3	2 4 5	2.05 B	21
			10		4	1 3 3	1.15 B	20
	583.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	0 2 2	0.57 B	19
			15		6	0 0 0	0.33 B	26
					7	0 0 0	0.33 B	23
			20		8	0 0 0	0.33 B	25
			25		9	0 0 0	0.25 B	25
					10	0 0 0	0.25 B	24
					11	0 0 0	0.16 B	26
			30		12	0 0 0	< 0.25 P	30
			35		13	0 0 0	< 0.25 P	27
			40		14	0 0 0	0.25 B	26

GENERAL NOTES

Begin Drilling: **07-31-2014** Complete Drilling: **07-31-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **CLM (-Coord)**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 37-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.73 ft
North: 1899214.79 ft
East: 1171327.81 ft
Station: 8311+66.54
Offset: 22.2819 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 0	0.41 B	23
	547.0	Medium stiff, gray SILTY CLAY, trace to some gravel						
			50		16	3 6 6	0.57 B	21
		--Disturbed sample--	55		17	5 6 11	NA	27
	537.0	Medium dense to dense, gray SILTY LOAM, trace gravel, sand lenses						
			60		18	8 9 15	NP	13
			65		19	10 15 17	NP	13
	528.7	Boring terminated at 65.00 ft						

--SAND lenses--

GENERAL NOTES

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
Driller **R&J** Logger **S. Woods** Checked by **CLM (-Coord)**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 37-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.30 ft
North: 1899060.29 ft
East: 1171337.17 ft
Station: 1312+69.32
Offset: 42.1927 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.0	3-inch thick, ASPHALT --PAVEMENT--						
		Medium dense, brown GRAVELLY SAND --FILL-- --Moist--			1	5 6 10	NP	14
	589.6	Loose, brown fine SAND --Moist--	5		2	4 4 4	NP	10
	587.8	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			3	1 2 3	1.44 B	24
			10		4	3 5 5	1.44 B	19
	582.8	Very soft to medium stiff, gray CL:AY to SILTY CLAY, trace gravel			5	1 1 2	0.57 B	23
			15		1	ST	< 0.25 P	
			20		6	0 0 1	0.41 B	20
			25		2	ST	0.50 P	
			30		7	0 0 2	0.19 B	22
			35		3	ST	0.25 P	
			40		8	0 0 0	0.41 B	25

GENERAL NOTES

Begin Drilling: **08-03-2014** Complete Drilling: **08-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 37-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.30 ft
North: 1899060.29 ft
East: 1171337.17 ft
Station: 1312+69.32
Offset: 42.1927 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		4	ST	0.25 P	
			50		9	0 2 4	0.62 B	25
	541.5	Stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			55		5	ST	1.25 P	
			60		10	9 8 11	5.33 B	16
			65		11	7 10 13	3.49 B	18
	528.3	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-03-2014** Complete Drilling: **08-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 38-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.87 ft
North: 1898674.22 ft
East: 1171408.18 ft
Station: 1316+53.06
Offset: 42.7366 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.6	4.5-inch thick, ASPHALT over 10.5-inch thick, CONCRETE --PAVEMENT--						
	575.6	13-inch thick SANDY GRAVEL --BASE COURSE--						
	574.9	Stiff, gray SILTY CLAY, trace gravel --FILL--						
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel						
					1	8 3 3	1.50 P	18
			5		2	1 1 2	0.16 B	23
					3	1 1 2	0.16 B	24
			10		4	0 1 2	0.16 B	23
					5	1 1 1	0.08 B	26
			15		6	1 1 2	0.50 N/6	
					7	1 1 2	0.16 B	26
			20		8	1 1 2	0.08 B	26
			25		9	1 2 3	0.16 B	26
					10	1 2 2	0.16 B	25
					11	1 2 2	0.67 N/6	
			30		12	2 3 3	0.25 B	27
			35		13	1 1 3	0.08 B	23
			40		14	2 4 6	0.25 B	26

GENERAL NOTES

Begin Drilling: **08-19-2014** Complete Drilling: **08-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 38-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.87 ft
North: 1898674.22 ft
East: 1171408.18 ft
Station: 1316+53.06
Offset: 42.7366 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	536.1							
		Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			45		15	6 8 10	4.10 B	13
			50		16	4 6 12	2.38 B	17
			55		17	5 9 10	2.54 B	23
	521.1							
		Very soft (0.16B), gray CLAY						
	518.6							
		Dense, gray SILTY LOAM, trace gravel	60		18	2 3 6	NP	20
			65		19	15 21 25	NP	19
	512.9							
		Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling **08-19-2014** Complete Drilling **08-19-2014**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG 38-RWB-01HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.82 ft
North: 1898677.09 ft
East: 1171357.96 ft
Station: 1316+53.10
Offset: 7.5636 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black LOAM, trace gravel, w/roots, w/wood chips --TOPSOIL--		PUSH	1		NP	21
	588.3	Gray SILTY LOAM to SILTY CLAY LOAM, trace gravel --FILL--		PUSH	2		NP	19
	584.8		5	PUSH	3		2.50 P	19
		Stiff to very stiff, gray SILTY CLAY, trace gravel		PUSH	4		1.50 P	20
	581.3							
		Soft, gray CLAY to SILTY CLAY, trace gravel		PUSH	5		0.40 P	19
	579.8		10					
		Boring terminated at 10.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **08-28-2014** Complete Drilling: **08-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 38-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.09 ft
North: 1898515.97 ft
East: 1171368.28 ft
Station: 1318+10.03
Offset: 21.6181 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.6	5-inch thick, ASPHALT --PAVEMENT--						
	574.8	10-inch thick, gray SANDY GRAVEL --FILL--						
	573.3	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--						
		Soft, gray CLAY to SILTY CLAY, trace gravel						
			5		1	1 2 2	1.97 B	17
					2	1 1 1 2	0.33 B	26
					3	1 1 2 2	0.33 B	25
					4	0 1 2 2	0.33 B	26
			10		5	2 2 2 2	0.25 B	26
					6	1 1 1	0.33 B	25
			15		7	1 1 1	0.33 B	26
					8	1 1 1	0.25 B	23
			20		9	1 1 1	0.33 B	24
			25		10	1 1 2	0.33 B	25
					11	1 1 2	0.25 B	25
					12	1 1 2	0.33 B	24
			30		13	1 2 3	0.49 B	25
	539.3	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			35		14	2 3 3	0.49 B	20
			40		15	5 6 8	2.46 B	19

GENERAL NOTES

Begin Drilling: **08-20-2014** Complete Drilling: **08-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **Solid flight auger to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 38-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.09 ft
North: 1898515.97 ft
East: 1171368.28 ft
Station: 1318+10.03
Offset: 21.6181 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		16	5 9 12	1.60 P	17
			50		17	9 10 10	3.33 N/6	
	524.3	Very stiff, gray CLAY to SILTY CLAY, trace gravel						
			55		18	6 7 11	2.21 B	28
	519.3	Hard, gray SILTY CLAY LOAM, trace gravel						
			60		19	8 13 22	4.43 B	17
	516.3							

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Very dense, gray SILTY LOAM, trace gravel --DRY--						
			65		20	15 28 32	NP	14
	511.1	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **08-20-2014** Complete Drilling: **08-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **Solid flight auger to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 38-RWB-02HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.04 ft
North: 1898532.77 ft
East: 1171339.09 ft
Station: 1318+00.41
Offset: 10.6331 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.0	12-inch thick, black LOAM, trace gravel and brick fragments --TOPSOIL--			1	PUSH	NP	21
	580.3	Brown, SANDY GRAVEL, trace brick fragments --FILL--						
		Very stiff, gray SILTY CLAY LOAM to SILTY CLAY, trace gravel --FILL--			2	PUSH	2.50 P	16
			5		3	PUSH	2.00 P	16
	575.0							
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	PUSH	0.70 P	19
					5	PUSH	0.40 P	20
	572.0		10					
		Boring terminated at 10.00 ft						
			15					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **08-28-2014** Complete Drilling: **08-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 39-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.87 ft
North: 1898358.83 ft
East: 1171247.64 ft
Station: 1320+04.07
Offset: 27.4619 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.6	3-inch thick, ASPHALT --PAVEMENT--						
	580.7	11-inch thick, CONCRETE --PAVEMENT--						
		Loose, gray SANDY LOAM, trace gravel and brick fragments			1	2 4 3	NP	12
	578.9	--FILL--						
		Stiff, gray SILTY CLAY, trace gravel	5		2	1 3 4	1.15 B	21
	576.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 0 2	0.33 B	26
			10		4	0 1 1	0.49 B	25
					5	0 0 1	0.08 B	28
			15		6	0 0 0	0.25 B	27
					7	0 0 1	0.16 B	25
			20		8	0 0 0	0.16 B	26
					9	1 1 1	0.16 B	28
			25		10	1 1 2	< 0.25 P	29
					11	0 1 2	0.49 B	25
			30		12	0 2 3	0.82 B	25
			35		13	3 3 5	0.82 B	18
			40		14	4 7 17	0.70 P	29

GENERAL NOTES

Begin Drilling: **08-07-2014** Complete Drilling: **08-07-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **2.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG 39-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.87 ft
North: 1898358.83 ft
East: 1171247.64 ft
Station: 1320+04.07
Offset: 27.4619 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.1							
		Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel --DRY--						
			45		15	5 8 13	4.51 B	15
			50		16	12 20 21	5.58 S	11
	530.1							
		Gray, fine SAND, trace gravel --DRY--						
	527.6				17	8 11 13	NP	17
		Very dense, gray SILTY LOAM, trace gravel --DRY--	55					
					18	13 50/6	NP	14
	521.9		60					
		Boring terminated at 60.00 ft						

GENERAL NOTES

Begin Drilling: **08-07-2014** Complete Drilling: **08-07-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **S. Woods** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **2.50 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG 39-RWB-01HA

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.50 ft
North: 1898317.61 ft
East: 1171210.29 ft
Station: 1320+62.52
Offset: 33.3936' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.0	6-inch thick, brown CLAY LOAM, trace roots						
		--TOPSOIL--						
		Very stiff, gray SILTY CLAY LOAM, trace gravel			1	PUSH	3.00 P	17
	578.7	Gray, fine to coarse SAND			2	PUSH	NP	4
			5		3	PUSH	NP	11
					4	PUSH	NP	6
		--Wet--			5	PUSH	NP	16
	571.0	Boring terminated at 9.50 ft	10					
			15					

GENERAL NOTES

Begin Drilling: **10-28-2014** Complete Drilling: **10-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **P&P** Logger: **F. Bozga** Checked by: **M. Seyhun**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.78 ft
North: 1896998.21 ft
East: 1171705.12 ft
Station: 6234+87.06
Offset: 125.33' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.1	8.5-inch thick CONCRETE --PAVEMENT--						
	579.5	7.5-inch thick, gray SANDY GRAVEL; damp --BASE COURSE--			1	3 2 4	NP	20
	577.8	Stiff (1.75P), brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--						
		Soft to medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1--	5		2	1 3 3	0.90 B	21
					3	1 1 2	0.41 B	17
			10		4	1 2 2	0.49 B	16
	570.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 1--			5	1 1 2	0.16 B	24
		--L_L(%)=35, P_L(%)=18-- --%Gravel=5.3-- --%Sand=14.1-- --%Silt=46.6-- --%Clay=33.9-- --A-6 (13)--	15		6	1 1 1	0.25 B	22
					7	1 1 1	0.25 B	24
			20		8	0 1 1	0.25 B	25
			25		9	0 1 1	0.25 B	24
					10	1 1 1	0.25 B	25
			30		11	1 2 1	0.33 B	26
					12	1 1 2	0.33 B	25
					13	1 2 3	0.57 B	24
			35		14	1 2 2	0.57 B	25
					15	2 3 6	0.57 B	26
	542.8	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--	40		16	2 12 24	3.00 P	12

GENERAL NOTES

Begin Drilling: **06-27-2019** Complete Drilling: **06-27-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

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BORING LOG BFB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.78 ft
North: 1896998.21 ft
East: 1171705.12 ft
Station: 6234+87.06
Offset: 125.33' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.0	Hard, gray SILTY CLAY, trace gravel; damp --RDR 2--	45		17	9 13 26	6.07 B	18
			50		18	9 14 21	5.82 B	18
	528.8	Medium dense to dense, dark gray GRAVELLY SANDY LOAM; wet to saturated --RDR 2--	55		19	14 16 15	NP	11
			60		20	15 15 15	NP	10
		--%Gravel=27.9-- --%Sand=55.7-- --%Silt=13.9-- --%Clay=2.5-- --A-1-b (0)--	65		21	15 16 17	NP	12
			70		22	14 14 16	NP	12
		--hard drilling, from 77 feet-- --possible cobbles--	75		23	12 13 15	NP	12
	503.8	Hard, gray SILTY LOAM, little to some gravel; dry --RDR 3 to 5--	80		24	70/4"	> 4.50 P	9

GENERAL NOTES

Begin Drilling: **06-27-2019** Complete Drilling: **06-27-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG BFB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.78 ft
North: 1896998.21 ft
East: 1171705.12 ft
Station: 6234+87.06
Offset: 125.33' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--possible cobbles--						
		--slow advancement from 83.5 to 86.0 feet--			25	70/4"	> 4.50 P	
	496.3	--cobbles and boulders--	85					
		Strong, light grayish gray, good quality, DOLOSTONE; Moderately spaced, fresh, horizontal and oblique joints, with 0-0.2 inch opening, slicken to slightly rough walls, and <0.2 inch thick sand infill. Run 1 : 86 to 96 feet --Recovery=100% --RQD=87% --Q_u=16,270 psi	90		26	CORE		
			95					
	484.8	Boring terminated at 96.00 ft						
			100					

GENERAL NOTES

Begin Drilling: **06-27-2019** Complete Drilling: **06-27-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.00 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.59 ft
North: 1896913.63 ft
East: 1171664.99 ft
Station: 6235+62.04
Offset: 69.27' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.8	10-inch thick CONCRETE --PAVEMENT--						
	577.9	10-inch thick, loose, gray SANDY GRAVEL; moist --BASE COURSE--			1	7 3 3	NP	6
	576.6	Medium stiff (0.75P), brown to gray SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	2 2 3	0.66 B	36
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 1-- --L_L(%)=44, P_L(%)=20-- --%Gravel=0.5-- --%Sand=5.3-- --%Silt=38.6-- --%Clay=55.5-- --A-7-6 (24)--	5		3	0 1 1	0.57 B	24
			10		4	2 1 2	0.82 B	19
					5	1 1 2	0.16 B	24
			15		6	1 1 2	0.33 B	23
					7	0 1 2	0.33 B	26
			20		8	1 1 2	0.33 B	25
		--L_L(%)=35, P_L(%)=18-- --%Gravel=4.2-- --%Sand=13.9-- --%Silt=46.9-- --%Clay=34.9-- --A-6 (13)--			9	1 1 1	0.33 B	25
			25		10	0 1 2	0.25 B	26
					11	1 1 2	0.33 B	25
			30		12	1 2 3	0.25 B	20
					13	0 2 2	0.57 B	25
	545.3	Stiff to hard, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	35		14	2 2 4	1.00 N/6	
					15	4 6 8	1.75 P	16
			40		16	10 15 23	6.48 S	13

GENERAL NOTES

Begin Drilling: **06-26-2019** Complete Drilling: **06-26-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **44.00 ft**
At Completion of Drilling: **10 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.59 ft
North: 1896913.63 ft
East: 1171664.99 ft
Station: 6235+62.04
Offset: 69.27' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	535.6							
	535.1	Gray SILTY LOAM; wet						
		Hard, gray SILTY CLAY, trace gravel; damp	45		17A	9 18 23	6.50 B	17
		--RDR 2--						
			50		18	13 15 25	9.35 B	21
		--change in drilling conditions at 52.5 feet--						
	527.1							
		Dense, gray GRAVELLY SAND; wet						
		--RDR 2--	55		19	19 23 18	NP	10
	522.8							
		Dense, dark gray, medium to coarse SAND; wet to saturated						
		--RDR 2 to 3--	60		20	9 14 17	NP	18
		--possible cobbles--						
		--%Gravel=6.8--						
		--%Sand=75.9--						
		--%Silt=14.4--						
		--%Clay=2.8--						
		--A-1-b (0)--	65		21	12 14 16	NP	16
	512.8							
		Dense to very dense, gray SANDY GRAVEL, few cobbles; wet						
		--RDR 3 to 4--	70		22	15 23 23	NP	10
		--occasional chatter--						
		--possible cobbles--						
		--few cobble fragments--	75		23	47 50/5"	NP	8
	502.8							
		Very dense, gray SILTY LOAM, trace gravel; damp to moist						
		--RDR 3 to 5--	80		24	33 50/5"	4.59 S	10

GENERAL NOTES

Begin Drilling: **06-26-2019** Complete Drilling: **06-26-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
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WATER LEVEL DATA

While Drilling: **44.00 ft**
At Completion of Drilling: **10 ft Mud**
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Depth to Water: **NA**

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BORING LOG BFB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.59 ft
North: 1896913.63 ft
East: 1171664.99 ft
Station: 6235+62.04
Offset: 69.27' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		25	25 50/5"	3.28 S	11
	494.1	--slow auger advancement from 85.5 to 87.0 feet-- --WEATHERED BEDROCK--						
	492.6	Strong, light grayish gray, good quality, DOLOSTONE; Moderately spaced, fresh, horizontal and oblique joints, with 0-0.2 inch opening, slicken to slightly rough walls, and 0 - 0.2 inch thick clay infill. Run 1 : 87 to 97 feet --Recovery=100% --RQD=83% --Q_u=6,930 psi	90		26	CORE		
			95					
	482.6	Boring terminated at 97.00 ft	100					

GENERAL NOTES

Begin Drilling: **06-26-2019** Complete Drilling: **06-26-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **44.00 ft**
At Completion of Drilling: **10 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.67 ft
North: 1896828.82 ft
East: 1171708.99 ft
Station: 6236+56.31
Offset: 92.89' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.8	10-inch thick CONCRETE --PAVEMENT--						
		Medium dense, gray CRUSHED STONE --AGGREGATE BASE--			1	12 10 4	NP	5
	575.7	Soft to medium stiff, gray SILTY CLAY LOAM, trace gravel --RDR 1--	5		2	4 2 3	NA	24
					3	2 2 4	0.82 B	19
			10		4	1 2 3	0.49 B	15
	568.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel --RDR 1--			5	1 1 2	0.25 B	26
			15		6	1 1 1	0.16 B	26
					7	1 1 0	0.25 B	26
			20		8	0 0 0	0.16 B	23
			25		9	1 1 1	0.16 B	26
					10	0 1 2	0.16 B	27
					11	1 1 2	0.41 B	26
			30		12	1 2 2	0.49 B	25
		--L_L(%)=37, P_L(%)=19-- --%Gravel=3.5-- --%Sand=10.5-- --%Silt=45.5-- --%Clay=40.5-- --A-6 (15)--			13	1 2 2	0.57 B	27
	544.2	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--	35		14	2 2 3	0.57 B	23
		--3-inch thick silt lens; moist--			15	5 5 10	2.46 B	14
		--L_L(%)=NP, P_L(%)=NP-- --%Gravel=4.7-- --%Sand=23.7-- --%Silt=59.6--	40		16	15 21 20	8.28 B	14

GENERAL NOTES

Begin Drilling: **06-24-2019** Complete Drilling: **06-24-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.50 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.67 ft
North: 1896828.82 ft
East: 1171708.99 ft
Station: 6236+56.31
Offset: 92.89' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=12.1--						
		--A-4 (0)--						
			45		17	7 13 16	9.76 B	12
			50		18	9 12 17	6.89 B	12
	526.9							
		Dense, gray SANDY GRAVEL, trace cobbles; wet						
		--RDR 3--						
			55		19	14 17 15	NP	8
		--rig chatter; possible cobbles--						
	521.9							
		Medium dense, dark gray, fine SAND, few silt lenses; wet						
		--RDR 2--						
			60		20	14 14 15	NP	22

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	516.9							
		Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel; damp						
		--RDR 3 to 4--						
		--<1-inch thick silt lenses; wet--	65		21	19 20 24	7.46 B	12
			70		22	29 50/5"	4.18 B	11
		--rig chatter; possible cobbles--						
		--L_L(%)=22, P_L(%)=13--						
		--%Gravel=14.4--						
		--%Sand=20.6--						
		--%Silt=46.3--						
		--%Clay=18.7--	75		23	26 35 29	7.71 B	10
		--A-4 (3)--						
		--rig chatter; possible cobbles--						
	501.9							
		Hard, gray SILTY CLAY, trace gravel; moist						
		--RDR 3 to 4--						
	499.4				24	33 50/5"	9.76 B	20
		Gray, fine SAND; wet						
	498.7		80					

GENERAL NOTES

Begin Drilling: **06-24-2019** Complete Drilling: **06-24-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.50 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.67 ft
North: 1896828.82 ft
East: 1171708.99 ft
Station: 6236+56.31
Offset: 92.89' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--RDR 4--						
		--hard drilling, from 80 feet-- Very dense, gray SILTY LOAM, fe cobbles and boulders, some dolostone fragments; wet						
		--RDR 5--						
					25	50/6"	NP	9
	494.2							
		Strong, light brownish gray, good quality, DOLOSTONE; Closely spaced, fresh, horizontal and oblique joints, with 0.05 - > 0.2 inch opening, slightly rough to rough walls, and 0 - 0.2 inch thick clay infill.	85					
		Run 1 : 86 to 96 feet --Recovery=100% --RQD=80% --Q_u=9,840 psi				C O R E		
			90		26			
		--Q_u=7,650 psi						
			95					
		Run 2 : 96 to 101 feet --Recovery=93% --RQD=82%				C O R E		
					27			
		--Q_u=7,960 psi	100					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	477.7	Boring terminated at 101.00 ft	105					
			110					
			115					
			120					

GENERAL NOTES

Begin Drilling: **06-24-2019** Complete Drilling: **06-24-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **52.50 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG BFB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.34 ft
North: 1896731.22 ft
East: 1171690.68 ft
Station: 6237+45.14
Offset: 58.81' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.5	9.5-inch thick CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL; damp --BASE COURSE-- --RDR 2--			1	12 13 14	NP	4
	574.3	Medium stiff, gray CLAY LOAM to LOAM, trace gravel; damp --FILL-- --RDR 1-- --L_L(%)=25, P_L(%)=17--	5		2	1 2 2	0.90 B	14
	571.8	--%Gravel=12.7-- --%Sand=28.1-- --%Silt=41.7-- --%Clay=17.5-- --A-4 (2)--			3	1 2 2	0.74 B	21
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 1--			4	1 1 2	0.49 B	24
			10		5	1 1 1	0.25 B	23
					6	1 1 1	0.25 B	23
			15		7	1 1 1	0.16 B	23
					8	1 1 1	0.33 B	26
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=34, P_L(%)=17-- --%Gravel=6.1-- --%Sand=14.1-- --%Silt=47.2-- --%Clay=32.6-- --A-6 (12)--			9	0 1 1	0.16 B	25
			25		10	1 1 1	< 0.25 P	25
					11	1 2 3	< 0.25 P	27
					12	1 1 3	0.49 B	26
			30		13	1 1 3	0.57 B	27
					14	1 1 3	0.41 B	22
			35		15	5 7 8	3.28 B	15
	541.8	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--						
	538.3				16A	6 10 11	3.85 B	17
	537.8	Gray, coarse SAND; saturated Hard, gray SILTY CLAY LOAM to	40					

GENERAL NOTES

Begin Drilling: **06-28-2019** Complete Drilling: **06-28-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **39.00 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG BFB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.34 ft
North: 1896731.22 ft
East: 1171690.68 ft
Station: 6237+45.14
Offset: 58.81' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		SILTY LOAM, trace gravel; damp --RDR 2-- --L_L(%)=23, P_L(%)=15-- --%Gravel=11.8-- --%Sand=23.8-- --%Silt=46.6-- --%Clay=17.8-- --A-4 (2)--	45		17	12 15 26	10.00 B	12
	530.6	Very dense, gray SILT; saturated --RDR 2--	50		18	27 27 34	NP	21
	525.6	Hard, gray CLAY; moist --RDR 2--	55		19	7 10 9	4.43 B	31
	520.6	Medium dense, gray GRAVELLY SAND; wet --RDR 2--	60		20	9 10 10	NP	13
	515.6	Hard, gray SILTY CLAY, trace gravel --RDR 2--	65		21	15 13 22	9.68 B	13
	510.6	--possible cobbles-- Hard, gray SILTY LOAM, trace gravel and cobbles; damp --RDR 3--	70		22	70/3"	> 4.50 P	11
	505.6	Very stiff to hard, gray CALY to SILTY CLAY, trace gravel and cobbles; damp --RDR 2--	75		23	38 32 37	3.00 P	26
		--L_L(%)=42, P_L(%)=20-- --%Gravel=1.0-- --%Sand=2.4-- --%Silt=42.4--	80		24	13 15 19	5.66 B	22

GENERAL NOTES

Begin Drilling: **06-28-2019** Complete Drilling: **06-28-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **39.00 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG BFB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.34 ft
North: 1896731.22 ft
East: 1171690.68 ft
Station: 6237+45.14
Offset: 58.81' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=54.2--						
		--A-7-6 (23)--						
	493.3				25	70/3"	> 4.50 P	20
		--slow auger advancement from 84.0 to 85.5 feet--	85					
		--WEATHERED BEDROCK--						
	491.8	Strong, light grayish gray, excellent quality, DOLOSTONE; moderately spaced, fresh, horizontal and vertical joints, with 0-0.2 inch opening, rough walls, and <0.2 inch thick sand infill. Run 1 : 85.5 to 95.5 feet --Recovery=99% --RQD=95% --Q_u=8,670 psi	90		26	CORE		
			95					
	481.8	Boring terminated at 95.50 ft						
			100					

GENERAL NOTES

Begin Drilling: **06-28-2019** Complete Drilling: **06-28-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17B57T [91%]**
Driller: **N&A** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **39.00 ft**
At Completion of Drilling: **9 ft Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG COMM-HUT-CCTV

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.57 ft
North: 1898191.07 ft
East: 1171393.69 ft
Station: 5218+68.15
Offset: 116.7249 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	589.2	5-inch thick dark brown SILTY LOAM --TOPSOIL-- Very stiff to hard, brown CLAY LOAM, trace gravel --FILL--		1	4 12 17	> 4.50 P	14
				2	5 7 7	3.94 B	14
5				3	9 11 10	7.38 B	17
	581.6	Medium stiff, gray SILTY CLAY, trace gravel		4	3 4 4	0.82 B	19
10	579.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		5	1 2 3	0.49 B	21
				6	1 2 4	0.41 B	22
15				7	2 3 5	0.74 B	25
				8	1 3 3	0.82 B	19
20							
				9	1 2 2	0.33 B	26
				10	1 2 2	0.16 B	24
25				11	1 1 1	0.16 B	26
				12	1 2 2	0.16 B	27
30				13	1 2 3	0.83 N/6	
35	552.8	Very stiff, gray SILTY CLAY LOAM, some gravel		14	4 6 8	2.00 P	14
40							

GENERAL NOTES

Begin Drilling: **11-08-2013** Complete Drilling: **11-08-2013**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **P&N** Logger: **D. Kolpacki** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG COMM-HUT-CCTV

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.57 ft
North: 1898191.07 ft
East: 1171393.69 ft
Station: 5218+68.15
Offset: 116.7249 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	547.8							
		Soft, gray CLAY, trace gravel						
			45		15	2 6 8	0.25 P	26
	542.8							
		Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel						
			50		16	4 5 7	1.23 B	24
			55		17	9 12 15	4.64 B	14
			60		18	7 11 19	5.00 N/6	23
	529.6							
		Boring terminated at 60.00 ft						

GENERAL NOTES

Begin Drilling **11-08-2013** Complete Drilling **11-08-2013**
Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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APPENDIX A

Boring Logs

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BORING LOG LTB-07

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 597.33 ft
North: 1896690.25 ft
East: 1171852.45 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		10-inch thick, CONCRETE --PAVEMENT--						
	596.3							
		Medium dense, gray CRUSHED STONE; moist --RDR--2 --FILL--			1	16 18 7	NP	7
	594.3							
		Very loose, light gray, lightweight CONCRETE; dry --RDR 1 to 2-- --FILL--	5		2	1 1 1	NP	52
					3	1 1 1	NP	56
			10		4	1 0 1	NP	66
					5	2 1 1	NP	48
	583.3							
		Loose, gray CRUSHED GRAVEL --FILL--	15		6	3 4 4	NP	11
	581.8							
		Medium stiff, gray SILTY CLAY LOAM, trace gravel --RDR--1			7	8 6 4	0.50 P	25
			20		8	2 2 2	0.82 B	25
	576.8							
		Stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--			9	2 4 4	1.23 B	20
	574.3							
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp --RDR 1 to 2--	25		10	1 2 3	0.25 P	23
					11	1 2 3	0.66 B	22
			30		12	0 0 1	0.41 B	24
			35		13	1 1 1	0.33 B	26
			40		14	0 2 2	0.36 B	24

GENERAL NOTES

Begin Drilling: **07-05-2019** Complete Drilling: **07-05-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **F. Bozga** Checked by:
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **MUD**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-07

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 597.33 ft
North: 1896690.25 ft
East: 1171852.45 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 2 3	0.66 B	25
			50		16	1 2 2	0.25 P	29
	545.6	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--	55		17	7 9 9	3.36 B	13
	537.3	Boring terminated at 60.00 ft	60		18	12 13 18	6.89 B	13

GENERAL NOTES

Begin Drilling: **07-05-2019** Complete Drilling: **07-05-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **F. Bozga** Checked by:
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **MUD**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-08

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.97 ft
North: 1897093.86 ft
East: 1171652.78 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.3	8-inch, CONCRETE --PAVEMENT--						
	585.6	6-inch, gray CRUSHED STONE --FILL--						
		Medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1-- --FILL--			1	2 3 5	NP	17
			5		2	2 3 5	2.87 B	19
	581.5	Soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	1 2 2	0.57 B	24
			10		4	1 2 2	0.41 B	25
					5	0 1 1	0.33 B	25
			15		6	0 1 1	0.33 B	26
					7	0 0 1	0.25 B	26
			20		8	0 0 0	0.16 B	27
			25		9	0 0 1	0.16 B	26
					10	0 0 0	0.25 B	26
			30		11	0 0 2	0.16 B	25
					12	0 0 2	0.41 B	25
	550.0	Medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1--	35		13	1 1 2	0.66 B	25
			40		14	3 3 3	0.82 B	15

GENERAL NOTES

Begin Drilling: **07-05-2019** Complete Drilling: **07-05-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **F. Bozga** Checked by:
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **MUD**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-08

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.97 ft
North: 1897093.86 ft
East: 1171652.78 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	545.3							
		Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR--2						
					15	6 17 20	5.40 B	14
			45					
	540.7							
		Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--						
					16	11 30 44	5.99 B	19
	537.0		50					
		Boring terminated at 50.00 ft						
			55					
			60					

GENERAL NOTES

Begin Drilling **07-05-2019** Complete Drilling **07-05-2019**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **F. Bozga** Checked by
Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **MUD**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-15

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.00 ft
North: 1899876.86 ft
East: 1171632.46 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.0	3-inch thick, ASPHALT over 9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL; damp --FILL--			1	13 10 5	NP	3
	576.0	--RDR 2--						
		Stiff, gray, moist SILTY CLAY, trace garvel --FILL-- --RDR 2--	5		2	2 2 3	1.75 P	19
	572.6							
		Soft, gray, moist to wet CLAY, trace gravel --RDR 2--			3	1 1 2	0.25 B	23
			10		4	0 0 3	0.41 B	21
					5	0 0 0	0.08 B	27
			15		6	0 0 0	0.33 B	30
					7	0 0 0	0.25 B	24
			20		8	0 0 0	NR	
			25		9	0 0 1	0.25 B	26
					10	0 0 0	0.33 B	27
					11	0 0 3	0.41 B	26
			30		12	2 2 2	0.33 B	26
	542.3	Stiff to very stiff, gray, damp to moist SILTY CLAY, trace gravel --RDR 2--	35		13	2 2 2	0.25 B	26
			40		14	3 4 5	1.64 B	22

GENERAL NOTES

Begin Drilling: **07-03-2019** Complete Drilling: **07-03-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **E. Yim** Checked by: **rkc_draft**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **6' mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-15

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.00 ft
North: 1899876.86 ft
East: 1171632.46 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 7 8	2.13 B	17
	529.0		50		16	6 9 15	3.28 B	20
		Boring terminated at 50.00 ft	55					
			60					

GENERAL NOTES

Begin Drilling **07-03-2019** Complete Drilling **07-03-2019**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&J** Logger **E. Yim** Checked by **rkc_draft**
Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **6' mud**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-16

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.20 ft
North: 1900380.73 ft
East: 1171621.69 ft
Station: 6160+78.46
Offset: 90.88 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.2	4-inch thick, ASPHALT over 8-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, white and brown, dry to damp SANDY GRAVEL --BASE COURSE--			1	14 10 12	NP	3
	576.2	--RDR 4--						
		Very stiff, gray, damp SILTY CLAY, trace gravel --FILL-- --RDR 2--	5		2	3 4 4	3.36 B	17
	573.7	Very soft to soft, gray CLAY --RDR 2--			3	1 1 2	0.25 B	24
			10		4	1 1 1	0.25 B	21
					5	1 1 1	0.25 B	24
			15		6	0 1 1	0.16 B	27
					7	1 1 1	0.16	27
			20		8	1 1 1	0.25 B	28
			25		9	1 1 1	0.16 B	26
					10	1 1 1	0.25 B	27
			30		11	1 1 1	0.33 B	25
					12	1 2 3	0.66 B	25
			35		13	1 2 3	0.25 B	28
	540.0	Stiff to hard, gray, damp SILTY	40		14	4 4 7	NR	

GENERAL NOTES

Begin Drilling: **07-10-2019** Complete Drilling: **07-10-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **rkc-draft**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-16

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.20 ft
North: 1900380.73 ft
East: 1171621.69 ft
Station: 6160+78.46
Offset: 90.88 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		CLAY, trace gravel --RDR 2--						
			45		15	4 5 7	1.23 B	19
			50		16	4 7 8	2.62 B	21
	524.2		55		17	8 10 15	4.67 B	22
		Boring terminated at 55.00 ft						
			60					

GENERAL NOTES

Begin Drilling: **07-10-2019** Complete Drilling: **07-10-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **rkc-draft**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG LTB-17

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.58 ft
North: 1900922.32 ft
East: 1171612.30 ft
Station: 6166+18.92
Offset: 98.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.6	4-inch thick, ASPHALT over 8-inch thick, CONCRETE --PAVEMENT--						
		Loose to medium dense, brown to gray GRAVELLY SAND; damp to saturated --FILL-- --RDR 3 to 4--			1	14 10 12	NP	3
			5		2	4 3 3	NP	11
	577.1	Medium stiff, gray CLAY LOAM, some gravel; moist --FILL-- --RDR 2--			3	1 1 2	0.50 P	16
	574.6	Soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--	10		4	1 1 1	0.25 B	28
					5	1 1 1	0.25 B	26
			15		6	1 1 1	0.25 B	23
					7	1 1 2	0.33 B	21
			20		8	1 2 2	0.33 B	22
			25		9	1 1 2	0.41 B	24
					10	1 2 2	0.41 B	24
					11	1 2 2	0.41 B	25
			30		12	1 1 1	0.33 B	25
	550.8	Medium stiff to very stiff, gray SILTY CLAY to SILTY CALY LOAM, trace gravel; damp --RDR 2--						
			35		13	3 3 6	1.15 B	23
			40		14	3 2 4	0.66 B	18

GENERAL NOTES

Begin Drilling: **07-01-2019** Complete Drilling: **07-01-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **rkc_draft**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **4.00 ft**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG LTB-17

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.58 ft
North: 1900922.32 ft
East: 1171612.30 ft
Station: 6166+18.92
Offset: 98.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 4 6	1.31 B	23
			50		16	4 5 7	1.64 B	15
	527.6		55		17	4 6 8	2.13 B	20
		Boring terminated at 55.00 ft						
			60					

GENERAL NOTES

Begin Drilling **07-01-2019** Complete Drilling **07-01-2019**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
Driller **N&A** Logger **M. Sadowski** Checked by **rkc_draft**
Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **4.00 ft**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG NB-22

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.84 ft
North: 1900177.31 ft
East: 1171607.02 ft
Station: 6158+79.03
Offset: 76.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.5	4-inch thick, ASPHALT --PAVEMENT--						
		Medium dense, brown to gray CRUSHED STONE --AGGREGATE BASE-- --FILL--			1	9 7 6	NP	2
	572.8	Loose, brown and gray, damp SANDY GRAVEL --FILL-- --RDR 2 to 3--			2	5 3 3	NP	4
	570.8	Medium stiff to very stiff, gray SILTY CLAY LOAM, little gravel; damp to moist --RDR 2--	5		3	2 3 4	2.30 B	15
					4	3 4 4	0.98 B	13
	565.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--	10		5	1 1 2	0.41 B	23
					6	1 1 1	0.25 B	27
			15		7	1 1 1	0.33 B	26
					8	1 1 1	NR	
			20					
	544.1	Stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--	25		9	1 1 2	0.33 B	25
					10	1 1 1	0.41 B	26
					11	1 2 3	0.90 B	25
			30		12	1 2 2	0.49 B	28
			35		13	3 4 6	1.31 B	22
			40		14	3 4 5	1.64 B	20

GENERAL NOTES

Begin Drilling: **07-10-2019** Complete Drilling: **07-10-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **rkc_draft**
Drilling Method: **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.00 ft**
At Completion of Drilling: **mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB-22

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.84 ft
North: 1900177.31 ft
East: 1171607.02 ft
Station: 6158+79.03
Offset: 76.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	530.8	Boring terminated at 45.00 ft	45		15	3 4 5	1.56 B	25

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **07-10-2019** Complete Drilling **07-10-2019**
Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
Driller **N&A** Logger **M. Sadowski** Checked by **rkc_draft**
Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.00 ft**
At Completion of Drilling ▼ **mud**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG NB90-SGB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.64 ft
North: 1894322.08 ft
East: 1171941.86 ft
Station: 6099+93.09
Offset: 44.1620 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, CONCRETE --PAVEMENT--						
	585.1							
		Medium dense to dense, black and brown SANDY LOAM to LOAM, trace gravel and brick fragments; moist --FILL--			1	16 15 17 24	NP	20
			5		2	4 24 20 25	NP	17
	580.1				3	11 10 7 6	NR	
		Loose, brown and gray, fine SAND; moist to wet			4	3 5 3 4	NP	19
			10		5	2 2 3 2	NP	23
	575.1							
		Boring terminated at 11.50 ft						
			15					

GENERAL NOTES

Begin Drilling: **11-04-2014** Complete Drilling: **11-04-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.64 ft
North: 1894621.13 ft
East: 1171935.83 ft
Station: 6102+92.17
Offset: 48.3122 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.7	11-inch thick, CONCRETE --PAVEMENT--						
	583.8	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	6 9 9 12	NP	7
	582.3	Stiff, brown SILTY CLAY LOAM, some gravel --FILL--			2	12 11 6 5	1.50 P	8
	580.6	Very stiff, gray SILTY CLAY to CLAY, trace gravel	5		3	1 2 2 3	2.00 P	18
	575.6	Medium stiff to stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	2 3 4 5	1.64 B	29
					5	2 2 2 2	0.74 B	31
		Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.63 ft
North: 1894874.20 ft
East: 1171861.55 ft
Station: 6105+47.62
Offset: 17.3145 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick, CONCRETE --PAVEMENT--						
	578.2							
		Dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	22 22 12 7	NP	4
	575.9							
		Hard, brown and gray CLAY to CLAY LOAM, trace gravel and bricks fragments --FILL--			2	4 5 5 6	> 4.50 P	33
	574.6	--L_L(%)=43, P_L(%)=22-- --%Gravel=3.9-- --%Sand=21.4-- --%Silt=43.9-- --%Clay=30.8-- --A-7-6 (15)--	5					
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3 3	0.82 B	28
					4	1 1 1 2	0.25 B	24
			10		5	1 1 1 1	0.16 B	27
	568.1							
		Boring terminated at 11.50 ft						
			15					

GENERAL NOTES

Begin Drilling: **11-04-2014** Complete Drilling: **11-04-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.79 ft
North: 1895185.94 ft
East: 1171897.16 ft
Station: 6108+57.44
Offset: 30.6955 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	10-inch thick, ASPHALT --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	5 10 10 8	NP	5
	573.3	Very stiff, gray SILTY CLAY to CLAY, trace gravel --FILL--			2	6 4 5 3	2.21 B	28
	571.3	Stiff, gray SILTY CLAY LOAM, trace gravel	5		3	0 2 2 2	1.39 B	15
	568.5	Soft, gray CLAY to SILTY CLAY			4	1 1 2 2	0.49 B	24
			10		5	0 1 1 2	0.33 B	25
	564.8	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.87 ft
North: 1895486.80 ft
East: 1171817.08 ft
Station: 6111+62.81
Offset: 29.9600 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick, CONCRETE --PAVEMENT--						
	575.9							
		Loose, gray SANDY GRAVEL to GRAVELLY SAND, crushed stone --BASE COURSE--			1	3 4 4 5	NP	7
					2	5 4 2 2	NP	4
	572.4							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 2 2 3	0.82 B	32
					4	1 1 1 2	0.57 B	25
			10		5	1 1 1 2	< 0.25 P	22
	565.9							
		Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-21-2014** Complete Drilling: **10-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.80 ft
North: 1895758.79 ft
East: 1171835.43 ft
Station: 6114+32.43
Offset: 11.9494 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	10-inch thick, ASPHALT --PAVEMENT--						
		Loose, gray, coarse SAND, crushed stone --BASE COURSE--			1	5 3 3 4	NP	7
	573.3	Stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			2	4 4 3 2	1.00 P	19
	571.8	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 3 3 4	1.64 B	23
					4	1 2 2 2	0.57 B	25
			10		5	1 1 2 2	0.49 B	26
	564.8	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-07

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.02 ft
North: 1896103.49 ft
East: 1171779.17 ft
Station: 6117+80.85
Offset: 12.2418 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick, CONCRETE --PAVEMENT--						
	574.7							
		Medium dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	9 12 12 11	NP	5
	573.0							
		Very stiff, gray SILTY CLAY, trace gravel --L_L(%)=32, P_L(%)=16-- --%Gravel=1.5-- --%Sand=15.4-- --%Silt=50.9-- --%Clay=32.2-- --A-6 (12)--			2	6 5 5 6	2.71 B	19
	570.0		5					
		Soft, gray CLAY to SILTY CLAY			3	2 3 3 3	0.41 B	26
					4	2 2 2 1	0.49 B	26
			10		5	2 1 1 1	0.41 B	25
	564.5							
		Boring terminated at 11.50 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-21-2014** Complete Drilling: **10-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-08

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.25 ft
North: 1896388.31 ft
East: 1171797.85 ft
Station: 6120+64.82
Offset: 23.2390 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.2	12-inch thick, CONCRETE --PAVEMENT--						
		Medium dense to very dense, gray SANDY GRAVEL, crushed stone --BASE COURSE-- --FILL--			1	30 29 26 26	NP	3
					2	17 16 10 8	NP	4
	572.7	Stiff, gray SILTY CLAY to CLAY, trace gravel	5		3	3 3 3 4	1.23 B	23
	570.2	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	2 2 3 3	0.82 B	20
			10		5	2 2 2 3	0.74 B	24
	566.2	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-09

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.20 ft
North: 1896680.68 ft
East: 1171759.57 ft
Station: 6123+57.41
Offset: 16.1632 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick, CONCRETE --PAVEMENT--						
	576.9							
		Dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	22 17 16 6	NP	4
	574.9							
		Hard, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 5 7 7	6.56 B	11
	572.2		5					
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 3 3 4	0.66 B	22
					4	2 2 2 4	0.74 B	21
			10		5	1 2 2 2	< 0.25 P	25
	566.7							
		Boring terminated at 11.50 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-21-2014** Complete Drilling: **10-21-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-10

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.51 ft
North: 1896984.82 ft
East: 1171800.48 ft
Station: 6126+61.54
Offset: 23.2181 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.6	11-inch thick, ASPHALT --PAVEMENT--						
	579.0	Loose, gray GRAVELLY SAND, crushed stone --BASE COURSE--			1	6 5 4 5	NP	7
	577.3	Stiff, gray SILTY CLAY to CLAY, trace gravel			2	2 3 3 3	1.50 P	24
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=43, P_L(%)=20-- --%Gravel=1.4-- --%Sand=8.1-- --%Silt=45.6-- --%Clay=44.8-- --A-7-6 (22)--	5		3	2 3 3 3	0.66 B	31
					4	1 1 2 2	0.82 B	24
			10		5	1 1 2 3	0.74 B	23
	570.5	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-11

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 582.22 ft
North: 1897324.03 ft
East: 1171761.68 ft
Station: 6130+01.25
Offset: 1.6385 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.4	10-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	8 12 14 11	NP	4
	578.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	9 10 4 4	NR	
			5		3	3 3 3 3	0.25 P	21
					4	3 3 3 3	0.98 B	25
			10		5	2 2 3 3	0.66 B	25
	571.2	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-23-2014** Complete Drilling: **10-23-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-12

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.91 ft
North: 1897759.67 ft
East: 1171660.96 ft
Station: 6134+48.65
Offset: 30.3217 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.1	10-inch thick, CONCRETE --PAVEMENT--						
		Loose to medium dense, gray GRAVELLY SAND, crushed stone; moist to wet --AGGREGATE BASE--			1	9 8 8 6	NP	6
					2	3 2 2 2	NP	8
	572.4	Soft, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 1 2	0.25 B	24
					4	1 2 2 2	0.33 B	22
			10		5	1 1 2 2	0.41 B	26
	565.9	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-29-2014** Complete Drilling: **10-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **4.50 ft**
At Completion of Drilling: **9.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-13

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.00 ft
North: 1898198.51 ft
East: 1171595.71 ft
Station: 6138+91.76
Offset: 8.1585 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.7	4-inch thick, ASPHALT --PAVEMENT--						
	572.9	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL --AGGREGATE BASE--			1	8 10 7 5	NP	8
	571.3	Stiff, gray SILTY CLAY, trace gravel --L_L(%)=35, P_L(%)=18-- --%Gravel=2.9-- --%Sand=14.2-- --%Silt=50.2-- --%Clay=32.7-- --A-6 (13)--			2	2 4 4 5	1.64 B	19
	569.3	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 2 2	0.57 B	25
					4	2 2 2 2	0.57 B	24
			10		5	1 2 2 3	0.66 B	24
	563.0	Boring terminated at 11.00 ft	15					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **11-04-2014** Complete Drilling: **11-04-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-14

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.69 ft
North: 1898653.18 ft
East: 1171543.59 ft
Station: 6143+49.96
Offset: 19.7769 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.4	4-inch thick, ASPHALT --PAVEMENT--						
	576.6	9-inch thick, CONCRETE --PAVEMENT--						
	575.7	Gray, SANDY GRAVEL, crushed stone --AGGREGATE BASE--						
		Stiff (1.75P), brown and gray SILTY CLAY, trace gravel			1	9 7 3 3	NP	18
	574.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 1 1 2	0.33 B	24
			5		3	1 1 2 3	0.57 B	24
					4	1 1 2 3	0.74 B	24
			10		5	1 2 3 3	0.90 B	23
	566.7	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-29-2014** Complete Drilling: **10-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-15

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.98 ft
North: 1899229.54 ft
East: 1171550.29 ft
Station: 6149+29.58
Offset: 33.8831 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.6	5-inch thick, ASPHALT --PAVEMENT--						
	575.8	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	7 7 5 4	NP	7
	574.2	Stiff, gray SILTY CLAY, trace gravel			2	3 3 3 3	1.15 B	19
	572.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 2 1	0.33 B	25
					4	0 1 2 2	0.41 B	25
			10		5	0 1 2 2	0.66 B	25
	566.0	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-29-2014** Complete Drilling: **10-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-16

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.58 ft
North: 1899545.99 ft
East: 1171539.94 ft
Station: 6152+45.77
Offset: 17.3660 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.2	4-inch thick, ASPHALT --PAVEMENT--						
	578.5	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 12 11 7	NP	4
	576.8	Loose to medium dense, brown and gray SANDY GRAVEL, bricks fragments --FILL--			2	5 12 6 5	NP	9
			5		3	3 2 3 3	NP	8
	572.6	--AUGER REFUSAL at 7'-- Boring terminated at 7.00 ft						
			10					
			15					

GENERAL NOTES

Begin Drilling: **10-29-2014** Complete Drilling: **10-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-16B

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.63 ft
North: 1899546.60 ft
East: 1171550.54 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.2	5-inch thick, ASPHALT --PAVEMENT--						
	578.6	7-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown and gray SANDY GRAVEL, crushed stone and brick fragments --FILL--			1	10 11 10 11	NP	18
	576.1	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=35, P_L(%)=17-- --%Gravel=4.9-- --%Sand=17.8-- --%Silt=47.1-- --%Clay=30.2-- --A-6 (12)--	5		2	7 8 3 4	1.31 B	20
					3	1 1 2 3	0.57 B	24
			10		4	1 1 2 3	0.41 B	25
					5	1 1 2 2	0.49 B	25
	568.6	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **11-04-2014** Complete Drilling: **11-04-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-17

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.12 ft
North: 1899900.37 ft
East: 1171582.31 ft
Station: 8345+63.62
Offset: 17.0731 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.7	5-inch thick, ASPHALT --PAVEMENT--						
	577.0	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 13 15 11	NP	5
	575.6	Soft to stiff, brown and gray to gray CLAY to SILTY CLAY, trace gravel			2	4 3 4 5	0.50 P	18
			5		3	3 3 3 4	0.82 B	20
					4	1 2 2 3	0.49 B	24
			10		5	1 1 2 2	0.41 B	26
	567.1	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-20-2014** Complete Drilling: **10-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-18

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.22 ft
North: 1900148.30 ft
East: 1171513.18 ft
Station: 6158+47.44
Offset: 21.1308 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.1	2-inch thick, ASPHALT --PAVEMENT--						
	575.3	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL, crushed stone; damp to wet			1	14 15 12 8	NP	11
	573.7	--AGGREGATE BASE--						
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			2	4 6 2 2	0.25 P	25
			5		3	0 2 1 2	0.25 B	25
					4	1 1 1 2	0.16 B	26
			10		5	1 2 1 1	0.25 B	27
	565.2	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-29-2014** Complete Drilling: **10-29-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **2.50 ft**
At Completion of Drilling: **2.50 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-19

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.10 ft
North: 1900404.89 ft
East: 1171566.03 ft
Station: 6161+03.37
Offset: 35.6068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.8	4-inch thick, ASPHALT --PAVEMENT--						
	577.0	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 11 9 4	NP	4
	575.6	Hard, brown SILTY CLAY LOAM, trace gravel --FILL--			2	8 8 4 4	> 4.50 P	14
	573.9	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 3 3 4	1.80 B	21
					4	1 2 1 2	0.41 B	32
			10		5	1 1 1 2	0.66 B	26
	567.1	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-20-2014** Complete Drilling: **10-20-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-20

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.70 ft
North: 1900691.85 ft
East: 1171504.90 ft
Station: 6163+92.15
Offset: 16.2431 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.5	3-inch thick, ASPHALT --PAVEMENT--						
	577.8	8-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	10 14 9 6	NP	5
	576.0	Stiff to very stiff, brown and gray SILTY CLAY, trace gravel --FILL--			2	5 14 8 5	2.38 B	18
			5		3	1 2 3 4	1.50 P	16
	572.2	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			4	1 2 2 3	1.07 B	19
			10		5	2 2 3 3	1.23 B	17
	567.7	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **11-04-2014** Complete Drilling: **11-04-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB90-SGB-21

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.00 ft
North: 1901084.41 ft
East: 1171543.57 ft
Station: 6167+83.26
Offset: 35.0586 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.6	5-inch thick, ASPHALT --PAVEMENT--						
	576.9	8-inch thick, CONCRETE --PAVEMENT--						
		Dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	17 18 17 14	NP	5
	574.2	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=34, P_L(%)=17-- --%Gravel=3.1-- --%Sand=18.4-- --%Silt=48.3-- --%Clay=30.2-- --A-6 (12)--	5		2	7 6 3 2	1.39 B	18
					3	1 1 1 1	0.49 B	25
					4	0 0 2 3	0.49 B	22
	569.0	Gray, coarse SAND; saturated						
	568.2	Very soft (<0.25P), gray CLAY to SILTY CLAY, trace gravel	10		5	2 2 1 2	NP	16
	567.0	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-28-2014** Complete Drilling: **10-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **9.00 ft**
At Completion of Drilling: **9.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-22

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.34 ft
North: 1901336.31 ft
East: 1171480.85 ft
Station: 6170+37.05
Offset: 19.5103 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.0	3.5-inch thick, ASPHALT --PAVEMENT--						
	577.4	7.5-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 11 11 8	NP	7
	575.6	Very stiff, brown and gray SILTY CLAY, trace gravel --FILL--			2	2 4 5 6	2.46 B	18
	573.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 1 2	0.41 B	24
					4	1 2 3 3	0.82 B	23
			10		5	1 3 3 3	0.82 B	22
	567.3	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **11-04-2014** Complete Drilling: **11-04-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG NB90-SGB-23

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.47 ft
North: 1901583.99 ft
East: 1171502.70 ft
Station: 6172+79.72
Offset: 31.3803 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.0	5-inch thick, ASPHALT --PAVEMENT--						
	576.4	8-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 15 7 6	NP	3
	574.7	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL-- --L_L(%)=32, P_L(%)=17-- --%Gravel=5.7-- --%Sand=22.9-- --%Silt=49.0-- --%Clay=22.5-- --A-6 (9)--			2	3 2 3 2	0.50 P	22
	573.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 1 2	0.41 B	24
					4	1 2 2 2	0.57 B	21
			10		5	1 2 2 3	0.66 B	24
	566.5	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-28-2014** Complete Drilling: **10-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 16, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.69 ft
North: 1901732.89 ft
East: 1171316.27 ft
Station: 51+64.46
Offset: 32.59 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		6-inch thick, ASPHALT over 15-inch thick, CONCRETE --PAVEMENT--						
	572.9							
		Loose, brown, wet SANDY GRAVEL --BASE COURSE--			1	9 5 4	NP	10
	571.3	--RDR 2 to 4--						
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to wet --RDR 2--	5		2	2 2 2	0.66 B	23
					3	2 1 2	NR	18
			10		4	1 1 2	0.49 B	23
					5	1 1 2	0.41 B	24
			15		6	0 1 1	0.25 B	26
					7	0 1 1	0.33 B	28
			20		8	1 1 1	0.25 B	22
			25		9	1 1 2	0.25 B	26
					10	1 1 2	0.33 B	25
					11	1 2 2	0.41 B	23
	546.7							
		Stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--	30		12	3 3 6	1.48 B	19
			35		13	3 4 5	1.23 B	22
	534.7		40		14	2 5 5	1.56 B	19
		Boring terminated at 40.00 ft						

GENERAL NOTES

Begin Drilling: **08-15-2019** Complete Drilling: **08-15-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **groundwater not observed**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG SB90-SGB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.26 ft
North: 1900440.64 ft
East: 1171395.88 ft
Station: 6200+07.15
Offset: 30.2937 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.7	6.5-inch thick, ASPHALT --PAVEMENT--						
	578.0	9-inch thick, CONCRETE --PAVEMENT--						
		Dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 28 8 5	NP	4
	576.3	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel, brick fragments --FILL--			2	6 5 6 5	2.71 B	17
	574.3	Soft, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 2 2	0.33 B	27
					4	1 1 1 2	0.25 B	27
			10		5	0 1 1 1	0.25 B	26
	567.8	Boring terminated at 11.50 ft	15					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **10-19-2014** Complete Drilling: **10-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.86 ft
North: 1900173.04 ft
East: 1171405.65 ft
Station: 1301+55.54
Offset: 14.7720 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.5	4-inch thick, ASPHALT --PAVEMENT--						
	576.9	8-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	16 16 12 8	NP	4
	575.1	Very stiff, brown SILTY CLAY LOAM, trace gravel --FILL-- --L_L(%)=29, P_L(%)=15-- --%Gravel=3.5-- --%Sand=19.7-- --%Silt=52.7-- --%Clay=24.1-- --A-6 (9)--			2	6 7 4 4	2.50 P	16
	573.6	Soft, gray CLAY to SILTY CLAY, trace gravel	5		3	0 0 1 2	0.49 B	23
					4	0 1 1 2	0.49 B	24
			10		5	1 1 1 1	0.33 B	24
	566.9	Boring terminated at 11.00 ft	15					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **10-19-2014** Complete Drilling: **10-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.81 ft
North: 1899934.68 ft
East: 1171413.13 ft
Station: 6205+13.40
Offset: 29.2851 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.3	6-inch thick, ASPHALT --PAVEMENT--						
	577.6	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	16 11 8 7	NP	3
	576.1	Medium dense, brown SANDY GRAVEL, brick fragments --FILL--			2	4 6 7 4	NP	15
	573.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 2 3	0.49 B	20
					4	1 2 2 3	0.74 B	21
			10		5	1 2 2 4	0.74 B	22
	567.3	Boring terminated at 11.50 ft	15					

GENERAL NOTES

Begin Drilling: **10-19-2014** Complete Drilling: **10-19-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **4.00 ft**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.50 ft
North: 1899684.72 ft
East: 1171474.56 ft
Station: 6207+64.38
Offset: 25.9502 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.2	3-inch thick, ASPHALT --PAVEMENT--						
	579.5	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 13 16 15	NP	6
	576.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	9 8 3 4	NR	
			5		3	1 1 2 2	0.33 B	26
					4	1 1 2 2	0.49 B	20
			10		5	1 1 2 2	0.66 B	23
	569.5	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.83 ft
North: 1899426.56 ft
East: 1171431.05 ft
Station: 6210+22.85
Offset: 13.1751 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.4	5-inch thick, ASPHALT --PAVEMENT--						
	578.7	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense to dense, gray SANDY GRAVEL, crushed stone; moist to wet --AGGREGATE BASE--			1	20 20 18 13	NP	5
					2	8 12 13 10	NP	4
	574.6		5	▼				
		Very stiff, gray SILTY CLAY, trace gravel --wet spoon--			3	7 7 7 6	2.00 P	21
	573.3							
		Very soft, gray CLAY to SILTY CLAY			4	0 2 1 2	0.16 B	26
			10	○	5	0 1 1 1	NR	
					6	0 0 0 0	0.16 B	25
	566.6							
		Boring terminated at 13.20 ft	15					

GENERAL NOTES

Begin Drilling: **10-27-2014** Complete Drilling: **10-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **5.00 ft**
At Completion of Drilling: ▼ **5.00 ft**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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BORING LOG SB90-SGB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.24 ft
North: 1899084.75 ft
East: 1171496.25 ft
Station: 6147+83.76
Offset: 17.3240 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.7	6-inch thick, ASPHALT --PAVEMENT--						
	575.0	9-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 9 7 7	NP	3
	573.0	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --L_L(%)=32, P_L(%)=17-- --%Gravel=2.5-- --%Sand=16.6-- --%Silt=51.2-- --%Clay=29.8-- --A-6 (11)--			2	4 4 3 3	1.39 B	18
	571.2		5					
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2 2	0.66 B	23
					4	1 1 2 2	0.74 B	21
			10		5	1 2 2 3	0.82 B	22
	564.7							
		Boring terminated at 11.50 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-07

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.81 ft
North: 1898785.77 ft
East: 1171466.21 ft
Station: 6216+64.92
Offset: 28.7803 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.3	6-inch thick, ASPHALT --PAVEMENT--						
	576.7	7-inch thick, CONCRETE --BASE COURSE--						
		Medium dense to dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	17 18 17 17	NP	6
					2	13 10 7 4	NP	8
	573.6	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 2 3 3	0.98 B	21
					4	1 2 2 2	0.49 B	24
			10		5	2 2 3 3	0.49 B	23
	566.8	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-08

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.36 ft
North: 1898496.00 ft
East: 1171483.87 ft
Station: 6219+57.67
Offset: 15.3260 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.9	5-inch thick, ASPHALT --PAVEMENT--						
	576.8	4-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	13 11 12 8	NP	6
	574.6	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			2	5 3 3 3	1.39 B	21
			5		3	1 2 2 3	0.33 B	24
					4	0 2 2 2	0.49 B	25
			10		5	0 2 2 2	0.49 B	24
	566.4	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB90-SGB-09

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 573.30 ft
North: 1898182.37 ft
East: 1171517.67 ft
Station: 6222+72.65
Offset: 2.7027 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	572.6	9-inch thick, ASPHALT --PAVEMENT--						
	571.8	Loose, brown SANDY GRAVEL, crushed stone --BASE COURSE--						
	570.8	Very stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			1	6 5 3 4	2.50 P	13
		Medium stiff to stiff, gray CLAY to SILTY CLAY, trace gravel			2	3 3 3 3	1.64 B	21
			5		3	1 1 2 3	0.57 B	24
					4	1 1 2 2	0.57 B	25
			10		5	1 1 2 3	0.66 B	20
	562.3	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB90-SGB-10

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.78 ft
North: 1897682.18 ft
East: 1171563.37 ft
Station: 6227+73.36
Offset: 27.6237 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick, CONCRETE --PAVEMENT--						
	575.6							
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	8 5 5 5	2.75 P	13
	574.6							
		Very stiff, brown and gray CLAY LOAM, trace gravel, brick fragments --FILL--						
	574.0							
		Stiff, gray SILTY CLAY LOAM, trace gravel --L_L(%)=31, P_L(%)=17-- --%Gravel=1.5-- --%Sand=13.1-- --%Silt=59.6-- --%Clay=25.8-- --A-6 (11)--			2	2 3 3 3	1.15 P	20
	572.0							
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 2 2	0.74 B	24
					4	1 1 2 2	0.57 B	26
			10		5	1 1 1 2	0.49 B	23
	565.8							
		Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB90-SGB-11

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 579.80 ft
North: 1897357.42 ft
East: 1171560.92 ft
Station: 6231+00.47
Offset: 29.9949 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.7	13-inch thick, CONCRETE --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	10 8 5 4	NP	5
	577.0	Soft, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2 2	0.25 P	25
			5		3	1 1 2 2	0.41 B	28
					4	1 1 1 1	0.25 B	27
			10		5	1 1 1 2	0.41 B	24
	568.8	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-12

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.56 ft
North: 1896939.61 ft
East: 1171610.99 ft
Station: 6235+25.90
Offset: 21.4718 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.5	13-inch thick, CONCRETE --PAVEMENT--						
	578.8	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	8 10 14 14	NP	5
	576.8	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 4 5 5	3.03 B	14
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 2 3	0.90 B	20
					4	2 2 2 2	0.98 B	24
			10		5	1 2 3 2	0.74 B	23
	570.6	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-13

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 577.81 ft
North: 1896596.82 ft
East: 1171656.56 ft
Station: 6238+70.90
Offset: 2.3791 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.7	13-inch thick, CONCRETE --PAVEMENT--						
	575.8	Brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	10 10 5 4	3.75 P	24
	575.1	Very stiff, brown SILTY CLAY LOAM, trace gravel --FILL--						
		Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 3 4 4	1.23 B	20
			5		3	1 2 2 2	0.66 B	20
					4	0 0 2 2	0.33 B	23
			10		5	1 1 2 2	0.41 B	23
	566.8	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-14

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.72 ft
North: 1896346.54 ft
East: 1171688.76 ft
Station: 6241+23.12
Offset: 2.8608 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.7	12-inch thick, CONCRETE --PAVEMENT--						
	574.2	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 9 8 7	NP	5
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	3 3 2 2	0.98 B	19
			5		3	1 1 2 1	0.49 B	21
					4	1 1 1 2	0.49 B	23
			10		5	1 1 2 2	0.33 B	25
	565.7	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-15

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.71 ft
North: 1896064.24 ft
East: 1171726.24 ft
Station: 6244+07.68
Offset: 13.7774 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--						
	574.6							
		Gray SANDY GRAVEL, crushed stone				5		
	573.7	--AGGREGATE BASE--			1	7 3 3	NP	19
		Stiff, brown and gray to gray SILTY CLAY LOAM to CLAY, trace gravel				3		
		--L_L(%)=30, P_L(%)=16-- --%Gravel=2.4-- --%Sand=19.9-- --%Silt=48.9-- --%Clay=28.7-- --A-6 (9)--			2	3 5 4	1.15 P	21
			5			1		
					3	2 3 3	1.07 B	23
	569.0							
		Soft, gray CLAY to SILTY CLAY, trace gravel				1		
					4	1 1 2	0.25 B	26
			10			1		
					5	2 1 2	0.25 B	27
	564.7							
		Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB90-SGB-16

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.27 ft
North: 1895745.05 ft
East: 1171704.78 ft
Station: 6247+23.47
Offset: 37.4192 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.4	11-inch thick, CONCRETE --PAVEMENT--						
	573.3	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 7 4 4	2.50 P	14
	571.0	Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	4 4 3 3	1.31 B	14
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 2 2	0.49 B	18
					4	1 1 2 2	0.25 B	28
			10		5	1 1 2 2	< 0.25 P	21
	564.3	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-17

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.98 ft
North: 1895455.29 ft
East: 1171792.96 ft
Station: 6250+20.20
Offset: 23.2948 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.9	13-inch thick, CONCRETE --PAVEMENT--						
	574.9	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	7 10 7 7	NP	24
	573.0	Hard (>4.5p), brown SILTY CLAY LOAM, trace gravel --FILL--			2	4 4 3 3	NR	
		Soft to medium stiff, brown CLAY to SILTY CLAY LOAM, trace gravel; danp to moist	5		3	1 1 2 2	0.74 B	17
					4	1 1 1 2	0.25 P	17
			10		5	0 1 1 2	0.25 B	23
	566.0	Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-18

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 576.00 ft
North: 1895146.02 ft
East: 1171820.07 ft
Station: 6253+30.52
Offset: 21.5773 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.9	13-inch thick, CONCRETE --PAVEMENT--						
	573.2	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 11 7 5	NP	5
	571.7	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	1 2 3 3	3.00 P	13
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel --L_L(%)=53, P_L(%)=23-- --%Gravel=0.4-- --%Sand=2.2-- --%Silt=40.3-- --%Clay=57.1-- --A-7-6 (33)--	5		3	1 1 2 2	0.16 B	46
					4	1 1 1 2	0.25 B	20
			10		5	1 1 2 2	0.33 B	23
	565.0	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-19

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.13 ft
North: 1894841.55 ft
East: 1171785.19 ft
Station: 6256+31.77
Offset: 35.7828 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick, CONCRETE --PAVEMENT--						
	579.1							
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	12 10 7 6	NP	4
					2	6 5 6 4	NP	5
	575.9							
		Soft, gray CLAY to SILTY CLAY, trace gravel	5		3	2 2 2 3	0.25 P	28
					4	1 2 2 2	0.41 B	15
			10		5	1 2 2 2	0.33 B	15
	569.1							
		Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-20

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.69 ft
North: 1894526.40 ft
East: 1171856.71 ft
Station: 6102+00.18
Offset: 33.9850 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.6	13-inch thick, CONCRETE --PAVEMENT--						
	587.2	Dense, brown SANDY GRAVEL --AGGREGATE BASE--			1	11 20 12 15	NP	4
		Medium dense, brown SILTY LOAM --FILL-- --%Gravel=0.2-- --%Sand=45.6-- --%Silt=50.3-- --%Clay=3.9-- --A-4 (0)--	5		2	9 9 10 10	NP	13
	583.7							
		Medium stiff to very stiff, gray SILTY CLAY LOAM to CLAY, trace gravel			3	3 4 4 5	2.46 B	25
					4	2 3 5 4	1.31 B	14
			10		5	2 3 3 3	0.57 B	13
	578.6	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-30-2014** Complete Drilling: **10-30-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-21

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.97 ft
North: 1898288.91 ft
East: 1171224.08 ft
Station: 1320+76.26
Offset: 4.4481 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.6	4.5-inch thick, ASPHALT --PAVEMENT--						
	574.0	7.5-inch thick, CONCRETE --PAVEMENT--						
		Loose, brown SANDY GRAVEL, crushed stone -- AGGREGATE BASE--			1	7 3 3 4		7
	572.0							
		Very stiff, brown SILTY CLAY, trace gravel --FILL--			2	6 6 5 5	3.50 P	18
	570.7							
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 2 3 3	0.95 B	25
					4	1 2 3 3	0.90 B	24
			10		5	2 2 3 4	0.90 B	25
	564.0							
		Boring terminated at 11.00 ft	15					

GENERAL NOTES

Begin Drilling: **10-15-2014** Complete Drilling: **10-15-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-22

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.14 ft
North: 1898126.08 ft
East: 1170995.81 ft
Station: 1323+61.53
Offset: 3.2919 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.7	5-inch thick, ASPHALT --PAVEMENT--						
	573.1	7-inch thick, CONCRETE --PAVEMENT--						
	572.6	7-inch thick, gray CRUSHED STONE --AGGREGATE BASE--						
		Stiff, brown and gray SILTY CLAY, trace gravel			1	4 2 2 3	1.50 P	19
	570.6	--FILL-- --L_L(%)=33, P_L(%)=18-- --%Gravel=3.1-- --%Sand=14.0-- --%Silt=51.9-- --%Clay=31.0-- --A-6 (11)--	5		2	3 4 3 4	1.15 B	21
	569.1	Stiff, gray SILTY CLAY, trace gravel						
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 3 3	0.83 N/6	
					4	2 2 3 4	0.25 P	24
			10		5	3 4 3 4	0.82 B	20
	563.1	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-15-2014** Complete Drilling: **10-15-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&J** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-23

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.83 ft
North: 1897869.25 ft
East: 1170735.41 ft
Station: 1503+71.26
Offset: 6.1938 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.4	5-inch thick, ASPHALT --PAVEMENT--						
	574.8	7-inch thick, CONCRETE --PAVEMENT--						
	574.1	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 8 3 3	2.00 P	18
	573.2	Very stiff, brown SILTY CLAY LOAM, trace gravel and brick fragments --FILL--						
		Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	2 3 3 5	1.72 B	20
					3	1 2 2 3	0.57 B	25
					4	1 2 2 2	0.49 B	25
			10		5	1 1 2 2	0.41 B	25
	564.8	Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-24

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 578.24 ft
North: 1897470.25 ft
East: 1171446.01 ft
Station: 1512+28.05
Offset: 14.8803 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick, CONCRETE --PAVEMENT--						
	577.0							
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	13 14 13 6	NP	5
	574.5							
		Soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel			2	2 2 2 3	0.74 B	23
		--L_L(%)=28, P_L(%)=16--	5					
		--%Gravel=2.8--						
		--%Sand=13.3--						
		--%Silt=64.3--						
		--%Clay=19.6--						
		--A-6 (8)--			3	1 1 2 2	0.66 B	19
					4	1 1 2 2	0.41 B	20
			10					
					5	0 1 2 2	0.25 B	24
	566.7							
		Boring terminated at 11.50 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG SB90-SGB-25

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.55 ft
North: 1897164.83 ft
East: 1171487.22 ft
Station: 1515+33.53
Offset: 22.3627 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--						
	580.5							
		Dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	17 18 13 13	NP	7
	578.8							
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2 2	0.98 B	25
			5		3	1 2 2 3	0.57 B	30
					4	0 2 1 2	0.33 B	28
			10		5	1 1 2 2	< 0.25 P	25
	570.5							
		Boring terminated at 11.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **10-26-2014** Complete Drilling: **10-26-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **RKC**
Drilling Method: **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG VST-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.26 ft
North: 1899543.57 ft
East: 1171652.91 ft
Station: 8415+02.96
Offset: 258.109 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff, black and gray SILTY CLAY, trace gravel --FILL--						
			5		1	6 4 3	0.90 B	28
	579.8							
		Very soft, gray SILTY CLAY, trace gravel			2	1 2 1	0.20 B	25
	576.8							
			10					
		--In-Situ Vane Shear, 10.5 feet-- --$S_{u\ undis}$ = 425.9 psf-- --$S_{u\ remold}$ = 218.4 psf-- --Sensitivity = 2.0--			1	VS		
		--In-Situ Vane Shear, 13.0 feet-- --$S_{u\ undis}$ = 589.7 psf-- --$S_{u\ remold}$ = 283.9 psf-- --Sensitivity = 2.1--	15		2	VS		
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 622.5 psf-- --$S_{u\ remold}$ = 425.9 psf-- --Sensitivity = 1.5--			3	VS		
		--In-Situ Vane Shear, 18.0 feet-- --$S_{u\ undis}$ = 491.4 psf-- --$S_{u\ remold}$ = 415.0 psf-- --Sensitivity = 1.2--	20		4	VS		
		--In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 884.6 psf-- --$S_{u\ remold}$ = 655.2 psf-- --Sensitivity = 1.4--			5	VS		
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 939.2 psf-- --$S_{u\ remold}$ = 655.2 psf-- --Sensitivity = 1.4--	25		6	VS		
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 786.3 psf-- --$S_{u\ remold}$ = 611.6 psf-- --Sensitivity = 1.3--			7	VS		
		--In-Situ Vane Shear, 28.0 feet-- --$S_{u\ undis}$ = 644.3 psf-- --$S_{u\ remold}$ = 382.2 psf-- --Sensitivity = 1.7--	30		8	VS		
		--In-Situ Vane Shear, 30.5 feet-- --$S_{u\ undis}$ = 720.8 psf-- --$S_{u\ remold}$ =458.7 psf-- --Sensitivity = 1.6--			9	VS		
		--In-Situ Vane Shear, 33.0 feet-- --$S_{u\ undis}$ = 851.8 psf-- --$S_{u\ remold}$ = 567.9 psf-- --Sensitivity = 1.5--	35		10	VS		
		--In-Situ Vane Shear, 35.5 feet-- --$S_{u\ undis}$ = 895.5 psf-- --$S_{u\ remold}$ = 666.2 psf-- --Sensitivity = 1.3--			11	VS		
		--In-Situ Vane Shear, 38.0 feet-- --$S_{u\ undis}$ = 993.8 psf-- --$S_{u\ remold}$ = 720.8 psf-- --Sensitivity = 1.4--	40		12	VS		

GENERAL NOTES

Begin Drilling: **12-04-2015** Complete Drilling: **12-05-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **I. Mohammud** Checked by: **A. Kurnia**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG VST-02

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.26 ft
North: 1899543.57 ft
East: 1171652.91 ft
Station: 8415+02.96
Offset: 258.109 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 40.5 feet--			13	VS		
		--$S_{u\ undis}$ = 1277.7 psf--						
		--$S_{u\ remold}$ = 808.1 psf--						
		--Sensitivity = 1.6--						
		--In-Situ Vane Shear, 43.0 feet--			14	VS		
	541.8	--$S_{u\ undis}$ > 1750 psf--						
		Boring terminated at 43.50 ft						
			45					
			50					
			55					
			60					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling **12-04-2015** Complete Drilling **12-05-2015**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&N** Logger **I. Mohammud** Checked by **A. Kurnia**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG VST-06

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.69 ft
North: 1898109.29 ft
East: 1171902.18 ft
Station: 1103+77.81
Offset: 27.3835 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Hard, brown SILTY CLAY LOAM, trace gravel --FILL--						
			5		1	7 6 6	> 4.50 P	16
	580.2							
		Soft, gray SILTY CLAY LOAM			2	1 2 3	0.41 B	23
	576.7							
			10					
		--In-Situ Vane Shear, 10.5 feet-- --$S_{u\ undis}$ = 972.0 psf-- --$S_{u\ remold}$ = 611.6 psf-- --Sensitivity = 1.6--			1	VS	0.97	
		--In-Situ Vane Shear, 13.0 feet-- --$S_{u\ undis}$ = 982.9 psf-- --$S_{u\ remold}$ = 589.7 psf-- --Sensitivity = 1.7--	15		2	VS	0.98	
		--In-Situ Vane Shear, 15.5 feet-- --$S_{u\ undis}$ = 873.7 psf-- --$S_{u\ remold}$ = 513.3 psf-- --Sensitivity = 1.7--			3	VS	0.87	
		--In-Situ Vane Shear, 18.0 feet-- --$S_{u\ undis}$ = 928.3 psf-- --$S_{u\ remold}$ = 360.4 psf-- --Sensitivity = 2.6--	20		4	VS	0.93	
		--In-Situ Vane Shear, 20.5 feet-- --$S_{u\ undis}$ = 775.4 psf-- --$S_{u\ remold}$ = 360.4 psf-- --Sensitivity = 2.2--			5	VS	0.78	
		--In-Situ Vane Shear, 23.0 feet-- --$S_{u\ undis}$ = 600.6 psf-- --$S_{u\ remold}$ = 305.8 psf-- --Sensitivity = 2.0--	25		6	VS	0.60	
		--In-Situ Vane Shear, 25.5 feet-- --$S_{u\ undis}$ = 578.8 psf-- --$S_{u\ remold}$ = 316.7 psf-- --Sensitivity = 1.8--			7	VS	0.58	
		--In-Situ Vane Shear, 28.0 feet-- --$S_{u\ undis}$ = 611.6 psf-- --$S_{u\ remold}$ = 338.5 psf-- --Sensitivity = 1.8--	30		8	VS	0.61	
		--In-Situ Vane Shear, 30.5 feet-- --$S_{u\ undis}$ = 786.3 psf-- --$S_{u\ remold}$ = 382.2 psf-- --Sensitivity = 2.1--			9	VS	0.78	
		--In-Situ Vane Shear, 33.0 feet-- --$S_{u\ undis}$ = 698.9 psf-- --$S_{u\ remold}$ = 404.1 psf-- --Sensitivity = 1.7--	35		10	VS	0.70	
		--In-Situ Vane Shear, 35.5 feet-- --$S_{u\ undis}$ = 808.1 psf-- --$S_{u\ remold}$ = 502.4 psf-- --Sensitivity = 1.6--			11	VS	0.80	
		--In-Situ Vane Shear, 38.0 feet-- --$S_{u\ undis}$ = 982.9 psf-- --$S_{u\ remold}$ = 546.0 psf-- --Sensitivity = 1.8--	40		12	VS	0.98	

GENERAL NOTES

Begin Drilling: **12-09-2015** Complete Drilling: **12-14-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **F. Bozga** Checked by: **A. Kurnia**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG VST-06

WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 585.69 ft
North: 1898109.29 ft
East: 1171902.18 ft
Station: 1103+77.81
Offset: 27.3835 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 40.5 feet--			13	VS	0.91	
		--$S_{u\ undis}$ = 906.4 psf--						
		--$S_{u\ remold}$ = 524.2 psf--						
		--Sensitivity = 1.7--						
		--In-Situ Vane Shear, 43.0 feet--			14	VS	0.68	
	542.2	--$S_{u\ undis}$ = 677.1 psf--						
		--$S_{u\ remold}$ = 393.1 psf--						
		--Sensitivity = 1.7--						
		Boring terminated at 43.50 ft	45					
			50					
			55					
			60					

GENERAL NOTES

Begin Drilling **12-09-2015** Complete Drilling **12-14-2015**
Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
Driller **R&N** Logger **F. Bozga** Checked by **A. Kurnia**
Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
At Completion of Drilling ▼ **mud in the borehole**
Time After Drilling **NA**
Depth to Water ▼ **NA**

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BORING LOG Z051-HA-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.72 ft
North: 1900875.70 ft
East: 1171630.53 ft
Station: 6165+71.74
Offset: 114.72 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black to brown, LOAM, little gravel, trace organics; damp --FILL--			1	PUSH	NP	17
	585.0	Stiff to very stiff, gray SILTY CLAY, trace gravel; damp			2	PUSH	2.50 P	21
			5		3	PUSH	2.25 P	20
					4	PUSH	2.50 P	20
	576.7		10		5	PUSH	1.50 P	23
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp			6	PUSH	0.50 P	21
	574.7	Boring terminated at 12.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **06-30-2019** Complete Drilling: **06-30-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **M&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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BORING LOG Z051-HA-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 583.92 ft
North: 1900924.31 ft
East: 1171620.89 ft
Station: 6166+20.64
Offset: 106.64 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black and gray, LOAM, some gravel and brick fragments, trace organic matter; damp --FILL--			1	PUSH	NP	14
	580.9	Stiff to very stiff, gray, SILTY CLAY LOAM, trace gravel; damp --FILL--			2	PUSH	2.75 P	22
			5		3	PUSH	1.50 P	21
	577.4	Very soft, gray, CLAY to SILTY CLAY, trace gravel; damp to moist			4	PUSH	0.25 P	23
					5	PUSH	< 0.25 P	25
			10		6	PUSH	< 0.25 P	26
					7	PUSH	< 0.25 P	25
	569.9	Boring terminated at 12.00 ft	15					

GENERAL NOTES

Begin Drilling: **06-30-2019** Complete Drilling: **06-30-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **M&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-HA-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 586.38 ft
North: 1900992.12 ft
East: 1171624.78 ft
Station: 6166+88.29
Offset: 112.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black and brown, LOAM, some gravel, trace organic matter; damp --FILL--			1	PUSH	NP	14
	583.6							
		Stiff to hard, gray, SILTY CLAY LOAM, trace gravel; damp			2	PUSH	> 4.50 P	19
			5		3	PUSH	2.50 P	23
	579.6							
		Very soft, gray, CLAY to SILTY CLAY, trace gravel; damp to moist			4	PUSH	1.75 P	25
					5	PUSH	< 0.25 P	25
			10		6	PUSH	< 0.25 P	25
					7	PUSH	< 0.25 P	26
	572.4							
		Boring terminated at 14.00 ft						
			15					

GENERAL NOTES

Begin Drilling: **06-30-2019** Complete Drilling: **06-30-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **M&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1900841.90 ft
East: 1171651.51 ft
Station: 6165+37.29
Offset: 134.60 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium dense, black GRAVELLY coarse SAND; damp --AGGREGATE--						
	592.3	--FILL-- --RDR 3--			1	8 10 11	NP	
		Loose, gray and brown SANDY GRAVEL, brick fragments; damp --FILL-- --RDR 3 to 4--			2	4 3 3	NP	17
			5					
	587.2				3	2 1 2	NP	
		Very stiff, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			4	2 2 3	2.30 B	23
			10					
	583.3				5	1 2 2	0.82 B	27
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			6	1 1 1	0.25 B	25
			15					
					7	1 1 2	0.41 B	18
					8	1 1 1	0.16 B	27
			20					
			25		9	1 1 1	0.16 B	25
					10	1 2 2	0.16 B	25
					11	1 1 2	0.33 B	25
			30		12	1 1 2	0.16 B	23
			35		13	1 1 2	0.16 B	26
			40		14	1 1 2	0.16 B	26

GENERAL NOTES

Begin Drilling: **07-02-2019** Complete Drilling: **07-02-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1900841.90 ft
East: 1171651.51 ft
Station: 6165+37.29
Offset: 134.60 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 2 5	0.41 B	24
	547.1	Medium stiff to stiff, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--						
			50		16	3 5 6	1.23 B	19
			55		17	3 4 7	0.82 B	23
			60		18	3 4 5	1.07 B	25
	532.1	Very stiff, gray, damp SILTY CLAY, trace gravel --RDR 2--	65		19	5 8 10	2.21 B	19
			70		20	5 8 11	2.30 B	13
	523.8	Boring terminated at 70.00 ft						
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-02-2019** Complete Drilling: **07-02-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1900890.48 ft
East: 1171650.26 ft
Station: 6165+85.89
Offset: 134.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.6	2-inch thick, ASPHALT --PAVEMENT--						
	592.3	Medium dense, black and gray, coarse SAND, trace gravel; damp --AGGREGATE BASE-- --RDR 2--			1	8 5 5	NP	10
		Loose to very dense, brown SANDY GRAVEL, some crushed concrete, brick fragments, debris; damp --FILL-- --RDR 2 to 3--	5		2	7 3 1	NP	74
					3	44 50/5"	NP	9
	586.1	Very stiff, gray SILTY CLAY, trace gravel; damp --RDR 3--	10		4	7 4 4	1.64 B	26
	582.1	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			5	5 3 2	NR	
			15		6	2 1 2	< 0.25 P	28
					7	1 1 1	< 0.25 P	32
			20		8	0 1 1	0.08 B	26
			25		9	1 2 2	0.25 P	26
					10	1 2 2	0.16 B	25
					11	1 1 2	0.41 B	24
			30		12	1 1 1	0.16 B	27
			35		13	1 1 2	0.16 B	27
			40		14	2 2 2	0.16 B	25

GENERAL NOTES

Begin Drilling: **07-02-2019** Complete Drilling: **07-02-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1900890.48 ft
East: 1171650.26 ft
Station: 6165+85.89
Offset: 134.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 3 4	0.16 B	24
	547.1	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--						
			50		16	4 4 5	0.33 B	17
			55		17	4 4 7	0.82 B	20
			60		18	4 5 6	1.64 B	18
			65		19	5 6 7	1.31 B	20
	523.8	Boring terminated at 70.00 ft	70		20	6 10 13	1.25 P	22
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-02-2019** Complete Drilling: **07-02-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.76 ft
North: 1900935.68 ft
East: 1171645.04 ft
Station: 6166+31.23
Offset: 131.14 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.6	2-inch thick, ASPHALT --PAVEMENT--						
		Loose to very dense, brown, damp SANDY GRAVEL, few brick fragments and crushed asphalt --FILL-- --RDR 3 to 5--			1	5 4 5	NP	10
			5		2	5 4 2	NP	19
					3	5 2 3	NP	18
			10		4	50/4"	NP	5
	583.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp --RDR 2 to 3--			5	0 1 1	0.25 B	28
			15		6	2 1 1	0.49 B	29
					7	0 1 1	0.08 B	27
			20		8	1 1 1	0.08 B	28
			25		9	1 1 1	0.16 B	26
					10	1 1 2	0.25 B	25
					11	1 1 2	0.25 B	26
			30		12	1 1 2	0.33 B	26
			35		13	1 2 2	0.08 B	26
			40		14	1 1 2	NR	

GENERAL NOTES

Begin Drilling: **07-11-2019** Complete Drilling: **07-11-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **4.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.76 ft
North: 1900935.68 ft
East: 1171645.04 ft
Station: 6166+31.23
Offset: 131.14 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 4	0.57 B	25
	547.0	Medium stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--						
			50		16	3 4 7	0.66 B	16
			55		17	3 3 5	NR	
			60		18	5 7 9	1.39 B	18
			65		19	5 8 11	2.05 B	21
			70		20	8 8 9	1.80 B	23
	523.8	Boring terminated at 70.00 ft						
			75					
			80					

GENERAL NOTES

Begin Drilling: **07-11-2019** Complete Drilling: **07-11-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **N&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **4.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.15 ft
North: 1901046.55 ft
East: 1171625.03 ft
Station: 6167+42.68
Offset: 114.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	587.8	4-inch thick, ASPHALT over 12-inch thick, CONCRETE --PAVEMENT--						
		Medium dense to very dense, brown to gray CRUSHED STONE and concrete; dry --FILL--			1	9 10 8	NP	3
					2	5 9 50/1"	NP	18
	583.9		5					
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	2 1 2	< 0.25 P	26
					4	1 1 1	0.33 B	27
			10		5	PUSH	0.25 P	27
		--In-Situ Vane Shear, 14.5 feet--	15		6	VS		
		--$S_{u\ undis}$ = 560.2psf--						
		--$S_{u\ remold}$ = 301.6 psf--						
		--Sensitivity = 1.9--			7	PUSH	0.25 P	26
		--Q_u=0.21 tsf (UC test)						
		--L_L(%)=32, P_L(%)=17--						
		--%Gravel=6.8--						
		--%Sand=20.1--						
		--%Silt=43.4--						
		--%Clay=29.7--						
		--A-6 (9)--						
		--In-Situ Vane Shear, 19.5 feet--	20		8			

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--$S_{u\ undis}$ = 1141.9 psf--				VS		
		--$S_{u\ remold}$ = 797.2 psf--				PUSH		
		--Sensitivity = 1.4--			9		< 0.25 P	27
		--In-Situ Vane Shear, 24.5 feet--	25		10	VS		
		--$S_{u\ undis}$ = 840.3 psf--						
		--$S_{u\ remold}$ = 452.7 psf--						
		--Sensitivity = 1.9--			11	PUSH	< 0.25 P	24
		--Q_u=0.62 tsf (UC test)						
		--L_L(%)=32, P_L(%)=17--						
		--%Gravel=3.7--						
		--%Sand=14.7--						
		--%Silt=46.6--						
		--%Clay=35.0--						
		--A-6 (12)--						
		--In-Situ Vane Shear, 29.5 feet--	30		12	VS		
		--$S_{u\ undis}$ = 904.9 psf--						
		--$S_{u\ remold}$ = 474.0 psf--						
		--Sensitivity = 1.9--			13	PUSH	< 0.25 P	24
		--In-Situ Vane Shear, 34.5 feet--	35		14	VS		
		--$S_{u\ undis}$ = 667.9 psf--						
		--$S_{u\ remold}$ = 344.7 psf--						
		--Sensitivity = 1.9--			15	PUSH	< 0.25 P	28
		--Q_u=0.31 tsf (UC test)						
		--L_L(%)=33, P_L(%)=17--						
		--%Gravel=2.9--						
		--%Sand=13.8--						
		--%Silt=47.8--						
		--%Clay=35.5--						
		--A-6 (12)--						
		--In-Situ Vane Shear, 39.5 feet--	40		16			

GENERAL NOTES

Begin Drilling: **06-30-2019** Complete Drilling: **06-30-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **M&A** Logged: **M. Sadowski/F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 589.15 ft
North: 1901046.55 ft
East: 1171625.03 ft
Station: 6167+42.68
Offset: 114.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--$S_{u\ undis}$ = 840.3 psf--				VS		
		--$S_{u\ remold}$ = 387.8 psf--				PUSH		
		--Sensitivity = 2.1--			17		0.50 P	24
		--In-Situ Vane Shear, 44.5 feet--	45		18	VS		
		--$S_{u\ undis}$ = 904.9 psf--						
		--$S_{u\ remold}$ = 409.4 psf--						
		--Sensitivity = 2.2--						
			50		19	2 2 3	0.41 B	23
	537.4							
		Stiff to very stiff, gray SILTY CLAY, trace gravel; damp						
		--RDR 2--						
			55		20	11 6 8	1.31 B	17
			60		21	4 5 7	1.23 B	17
			65		22	5 7 11	3.28 B	20
	524.2	Boring terminated at 65.00 ft						
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **06-30-2019** Complete Drilling: **06-30-2019**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [91%]**
Driller: **M&A** Logged: **M. Sadowski/F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

APPENDIX B

IDOT BMPR 507A and 508A Forms

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

COUNTY
Cook County

Lab. No.	SB90-SGB-20 No.2	NB90-SGB-03 No.2	SB90-SGB-18 No.3	SB90-SGB-15 No.2	NB90-SGB-07 No.2
Station ft)	6102+00.18	6105+47.62	6108+21.39	6117+46.65	6117+80.85
Offset (ft)	33.9850 LT	17.3145 LT	48.29 LT	68.57 LT	12.2418 LT
Depth (ft)	3	3.5	5	3	3.5
AASHTO M 145 Classification and Group Index	A-4 (0)	A-7-6 (15)	A-7-6 (33)	A-6 (9)	A-6 (12)
Illinois Textural Classification (Illinois Method)	Silty Loam	Clay	Clay	Silty Clay Loam	Silty Clay
Gradation--Passing 1" Sieve %					
--"-- 3/4" Sieve %					
--"-- 1/2" Sieve %	100.0	100.0		100.0	100.0
--"-- No.4 Sieve %	99.9	98.7	100.0	99.7	99.9
--"-- No.10 Sieve %	99.8	96.1	99.6	97.6	98.5
--"-- No.40 Sieve %	98.7	90.7	98.9	91.1	87.0
--"-- No.100 Sieve %	80.2	80.8	98.0	82.6	
--"-- No.200 Sieve %	54.2	74.8	97.4	77.6	83.1
Sand % (AASHTO T 88)	45.6	21.4	2.2	19.9	15.4
Silt % (AASHTO T 88)	50.3	43.9	40.3	48.9	50.9
Clay % (AASHTO T 88)	3.9	30.8	57.1	28.7	32.2
Liquid limit % (AASHTO T 89)	0.0	43.0	53.0	30.0	32.0
Plasticity index % (AASHTO T 90)	0.0	21.0	30.0	13.0	16.0
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	POOR	FAIR	FAIR	POOR	FAIR
Insitu Moisture % (AASHTO T 99)	13	33	46	21	19

SOIL TEST DATA

SECTION
I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

Lab. No.	02-RWB-05 No.4	BFB-04 No.2	02-RWB-06 No.3	BFB-02 No.2	NB90-SGB-10 No.3
Station ft)	6123+98.65	6124+07.55	6124+73.87	6125+89.82	6126+61.54
Offset (ft)	58.05 RT	85.34 LT	53.59 RT	112.07 LT	23.2181 RT
Depth (ft)	8.5	3.5	6	3.5	5.0
AASHTO M 145 Classification and Group Index	A-6 (13)	A-4 (2)	A-6 (7)	A-7-6 (24)	A-7-6 (22)
Illinois Textural Classification (Illinois Method)	Silty Clay	Clay Loam	Silty Clay Loam	Clay	Clay
Gradation--Passing 1" Sieve %					
--"-- 3/4" Sieve %					
--"-- 1/2" Sieve %	100.0	100.0	100.0		100.0
--"-- No.4 Sieve %	98.8	95.2	99.0	100.0	99.7
--"-- No.10 Sieve %	95.8	87.3	95.8	99.5	98.6
--"-- No.40 Sieve %	87.1	73.5	86.0	98.1	95.7
--"-- No.100 Sieve %	81.6	64.0	78.4	95.9	92.5
--"-- No.200 Sieve %	78.1	59.2	73.4	94.1	90.4
Sand % (AASHTO T 88)	17.7	28.1	22.5	5.3	8.1
Silt % (AASHTO T 88)	47.9	41.7	49.7	38.6	45.6
Clay % (AASHTO T 88)	30.2	17.5	23.6	55.5	44.8
Liquid limit % (AASHTO T 89)	34.0	25.0	26.0	44	43
Plasticity index % (AASHTO T 90)	20.0	9.0	13.0	24	23
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	FAIR	POOR	POOR	FAIR	FAIR
Insitu Moisture % (AASHTO T 99)	16	14	17	36	31

SOIL TEST DATA

SECTION
I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

Lab. No.	NB90-SGB-13 No.2	SB90-SGB-06 No.2	SB90-SGB-02 No.2	33-RWB-02 No.9	Z051-RWB-04 No.7
Station ft)	6138+91.76	6147+83.76	6158+72.66	6164+04.19	6167+42.63
Offset (ft)	8.1585 LT	17.3240 LT	127.30 LT	108.89 RT	114.68 RT
Depth (ft)	3.0	3.5	3.0	21.0	15.0
AASHTO M 145 Classification and Group Index	A-6 (13)	A-6 (11)	A-6 (9)	A-6 (17)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Silty Clay	Silty Clay	Silty Clay Loam	Clay	Clay
Gradation--Passing 1" Sieve %					
--"-- 3/4" Sieve %					
--"-- 1/2" Sieve %	100.0	100.0	100.0	100.0	100.0
--"-- No.4 Sieve %	99.6	99.6	98.5	98.6	99.3
--"-- No.10 Sieve %	97.1	97.5	96.5	94.9	93.2
--"-- No.40 Sieve %	91.3	90.6	90.9	89.4	85.4
--"-- No.100 Sieve %	86.1	84.6	82.0	84.6	77.1
--"-- No.200 Sieve %	82.9	81.0	76.9	81.7	73.1
Sand % (AASHTO T 88)	14.2	16.6	19.7	13.2	20.1
Silt % (AASHTO T 88)	50.2	51.2	52.7	42.2	43.4
Clay % (AASHTO T 88)	32.7	29.8	24.1	39.5	29.7
Liquid limit % (AASHTO T 89)	35	32	29	39	32
Plasticity index % (AASHTO T 90)	17	14	15	21	15
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	FAIR	POOR	POOR	FAIR	POOR
Insitu Moisture % (AASHTO T 99)	19	18	16	31	26

SOIL TEST DATA

SECTION
I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

Lab. No.	NB90-SGB-21 No.2	NB90-SGB-23 No.2
Station ft)	6167+83.26	6172+79.72
Offset (ft)	35.0586 RT	31.3803 RT
Depth (ft)	3.0	3.0
AASHTO M 145 Classification and Group Index	A-6 (12)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Clay	Silty Clay Loam
Gradation--Passing 1" Sieve %		
--"-- 3/4" Sieve %		100.0
--"-- 1/2" Sieve %	100.0	98.0
--"-- No.4 Sieve %	99.5	97.7
--"-- No.10 Sieve %	96.9	94.3
--"-- No.40 Sieve %	90.0	84.5
--"-- No.100 Sieve %	82.9	76.4
--"-- No.200 Sieve %	78.5	71.4
Sand % (AASHTO T 88)	18.4	22.9
Silt % (AASHTO T 88)	48.3	49.0
Clay % (AASHTO T 88)	30.2	22.5
Liquid limit % (AASHTO T 89)	34	32
Plasticity index % (AASHTO T 90)	16	15
IBR % (Illinois Method)		
Standard Dry Density % (AASHTO T 99)		
Optimum Moisture % (AASHTO T 99)		
Subgrade Support Rating	FAIR	POOR
Insitu Moisture % (AASHTO T 99)	18	22

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Taylor Entrance Ramp (Sta. 6305+21.15 to Sta. 6309+70.74)

COUNTY
Cook County

Lab. No.	02-RWB-03 No.3	02-RWB-06 No.3
Station ft)	6307+22.31	6309+48.18
Offset (ft)	18.90 RT	16.48 RT
Depth (ft)	6	6
AASHTO M 145 Classification and Group Index	A-6 (9)	A-6 (7)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Silty Clay Loam
Gradation--Passing 1" Sieve %		
--"-- 3/4" Sieve %		
--"-- 1/2" Sieve %	100.0	100.0
--"-- No.4 Sieve %	99.5	99.0
--"-- No.10 Sieve %	96.9	95.8
--"-- No.40 Sieve %	82.9	86.0
--"-- No.100 Sieve %	75.1	78.4
--"-- No.200 Sieve %	70.6	73.4
Sand % (AASHTO T 88)	26.3	22.5
Silt % (AASHTO T 88)	51.1	49.7
Clay % (AASHTO T 88)	19.5	23.6
Liquid limit % (AASHTO T 89)	30.0	26.0
Plasticity index % (AASHTO T 90)	16.0	13.0
IBR % (Illinois Method)		
Standard Dry Density % (AASHTO T 99)		
Optimum Moisture % (AASHTO T 99)		
Subgrade Support Rating	POOR	POOR
Insitu Moisture % (AASHTO T 99)	29	17

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
NB CD Road (Sta. 6139+97.50 to Sta. 6367+04.01)

COUNTY
Cook County

Lab. No.	1704-B-04 No.3	1710-B-04 No.5	1710-B-03 No.2	NB90-SGB-21 No.2	NB90-SGB-23 No.2	Z051-RWB-04 No.7
Station ft)	5159+38.86	6327+26.49	6327+75.58	6360+37.15	6365+40.16	6359+96.64
Offset (ft)	50.4076 RT	65.29 RT	47.56 RT	9.50 LT	9.50 LT	70.68 RT
Depth (ft)	6	11	3.5	3	3	15
AASHTO M 145 Classification and Group Index	A-6 (10)	A-6 (11)	A-6 (10)	A-6 (12)	A-6 (9)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Clay	Silty Clay Loam	Clay	Silty Clay Loam	Clay
Gradation--Passing 1" Sieve %						
--"-- 3/4" Sieve %					100.0	
--"-- 1/2" Sieve %	100.0	100.0	100.0	100.0	98.0	100.0
--"-- No.4 Sieve %	99.2	99.6	99.8	99.5	97.7	99.3
--"-- No.10 Sieve %	97.1	97.5	98.0	96.9	94.3	93.2
--"-- No.40 Sieve %	90.4	90.9	92.1	90.0	84.5	85.4
--"-- No.100 Sieve %	82.2	83.7	85.5	82.9	76.4	77.1
--"-- No.200 Sieve %	77.6	79.5	81.4	78.5	71.4	73.1
Sand % (AASHTO T 88)	19.5	18.0	16.6	18.4	22.9	20.1
Silt % (AASHTO T 88)	49.6	47.9	52.1	48.3	49.0	43.4
Clay % (AASHTO T 88)	28.0	31.6	29.3	30.2	22.5	29.7
Liquid limit % (AASHTO T 89)	31.0	33.0	32.0	34.0	32.0	32.0
Plasticity index % (AASHTO T 90)	15.0	16.0	13.0	16.0	15.0	15.0
IBR % (Illinois Method)						
Standard Dry Density % (AASHTO T 99)						
Optimum Moisture % (AASHTO T 99)						
Subgrade Support Rating	POOR	FAIR	POOR	FAIR	POOR	POOR
Insitu Moisture % (AASHTO T 99)	24	24	19	18	22	26

STATE OF ILLINOIS
Department of Transportation

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Ramp EN (Sta. 1617+70.00 to Sta. 1625+18.68)

COUNTY
Cook County

Lab. No.	1704-B-04 No.3
Station ft)	5159+38.86
Offset (ft)	50.4076 RT
Depth (ft)	6
AASHTO M 145 Classification and Group Index	A-6 (10)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam
Gradation--Passing 1" Sieve %	
--"-- 3/4" Sieve %	
--"-- 1/2" Sieve %	100.0
--"-- No.4 Sieve %	99.2
--"-- No.10 Sieve %	97.1
--"-- No.40 Sieve %	90.4
--"-- No.100 Sieve %	82.2
--"-- No.200 Sieve %	77.6
Sand % (AASHTO T 88)	19.5
Silt % (AASHTO T 88)	49.6
Clay % (AASHTO T 88)	28.0
Liquid limit % (AASHTO T 89)	31.0
Plasticity index % (AASHTO T 90)	15.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
Insitu Moisture % (AASHTO T 99)	24

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Jackson Entrance Ramp (Sta. 8240+00.00 to Sta. 8245+05.53)

COUNTY
Cook County

Lab. No.	SB90-SGB-06 No.2
Station ft)	8242+8.70
Offset (ft)	85.07 LT
Depth (ft)	3.5
AASHTO M 145 Classification and Group Index	A-6 (11)
Illinois Textural Classification (Illinois Method)	Silty Clay
Gradation--Passing 1" Sieve %	
--"-- 3/4" Sieve %	
--"-- 1/2" Sieve %	100.0
--"-- No.4 Sieve %	99.6
--"-- No.10 Sieve %	97.5
--"-- No.40 Sieve %	90.6
--"-- No.100 Sieve %	84.6
--"-- No.200 Sieve %	81.0
Sand % (AASHTO T 88)	16.6
Silt % (AASHTO T 88)	51.2
Clay % (AASHTO T 88)	29.8
Liquid limit % (AASHTO T 89)	32.0
Plasticity index % (AASHTO T 90)	14.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
Insitu Moisture % (AASHTO T 99)	18

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Madison Exit Ramp (Sta. 8540+00.00 to Sta. 8548+86.82)

COUNTY
Cook County

Lab. No.	30-RWB-03 No.1
Station ft)	8547+48.97
Offset (ft)	4.13 LT
Depth (ft)	13.5
AASHTO M 145 Classification and Group Index	A-6 (10)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam
Gradation--Passing 1" Sieve %	
--"-- 3/4" Sieve %	
--"-- 1/2" Sieve %	100.0
--"-- No.4 Sieve %	99.3
--"-- No.10 Sieve %	96.8
--"-- No.40 Sieve %	88.8
--"-- No.100 Sieve %	81.7
--"-- No.200 Sieve %	77.3
Sand % (AASHTO T 88)	19.5
Silt % (AASHTO T 88)	49.2
Clay % (AASHTO T 88)	28.1
Liquid limit % (AASHTO T 89)	32.0
Plasticity index % (AASHTO T 90)	15.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
Insitu Moisture % (AASHTO T 99)	25

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Washington Exit Ramp (Sta. 8680+00.00 to Sta. 8684+50.69)

COUNTY
Cook County

Lab. No.	33-RWB-02 No.9
Station ft)	8684+36.73
Offset (ft)	7.95 LT
Depth (ft)	21
AASHTO M 145 Classification and Group Index	A-6 (17)
Illinois Textural Classification (Illinois Method)	Clay
Gradation--Passing 1" Sieve %	
--"-- 3/4" Sieve %	
--"-- 1/2" Sieve %	100.0
--"-- No.4 Sieve %	98.6
--"-- No.10 Sieve %	94.9
--"-- No.40 Sieve %	89.4
--"-- No.100 Sieve %	84.6
--"-- No.200 Sieve %	81.7
Sand % (AASHTO T 88)	13.2
Silt % (AASHTO T 88)	42.2
Clay % (AASHTO T 88)	39.5
Liquid limit % (AASHTO T 89)	39.0
Plasticity index % (AASHTO T 90)	21.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	FAIR
Insitu Moisture % (AASHTO T 99)	31

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Randolph Exit Ramp (Sta. 8740+00.00 to Sta. 8744+73.19)

COUNTY
Cook County

Lab. No.	33-RWB-02 No.9	Z051-RWB-04 No.7
Station ft)	8740+26.02	8743+63.62
Offset (ft)	31.91 RT	2.97 LT
Depth (ft)	21	15
AASHTO M 145 Classification and Group Index	A-6 (17)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Clay	Clay
Gradation--Passing 1" Sieve %		
--"-- 3/4" Sieve %		
--"-- 1/2" Sieve %	100.0	100.0
--"-- No.4 Sieve %	98.6	99.3
--"-- No.10 Sieve %	94.9	93.2
--"-- No.40 Sieve %	89.4	85.4
--"-- No.100 Sieve %	84.6	77.1
--"-- No.200 Sieve %	81.7	73.1
Sand % (AASHTO T 88)	13.2	20.1
Silt % (AASHTO T 88)	42.2	43.4
Clay % (AASHTO T 88)	39.5	29.7
Liquid limit % (AASHTO T 89)	39.0	32.0
Plasticity index % (AASHTO T 90)	21.0	15.0
IBR % (Illinois Method)		
Standard Dry Density % (AASHTO T 99)		
Optimum Moisture % (AASHTO T 99)		
Subgrade Support Rating	FAIR	POOR
Insitu Moisture % (AASHTO T 99)	31	26

SOIL TEST DATA

PROJECT
1100-04-01

ROUTE
Jane Byrne Interchange Reconstruction

SECTION
Lake Exit Ramp (Sta. 8840+00.00 to Sta. 8849+09.73)

COUNTY
Cook County

Lab. No.	33-RWB-02 No.9	Z051-RWB-04 No.7	NB90-SGB-21 No.2
Station ft)	8840+35.80	8846+09.98	8846+47.97
Offset (ft)	28.2 RT	37.60 RT	86.93 LT
Depth (ft)	21	15	3
AASHTO M 145 Classification and Group Index	A-6 (17)	A-6 (9)	A-6 (12)
Illinois Textural Classification (Illinois Method)	Clay	Clay	Clay
Gradation--Passing 1" Sieve %			
--"-- 3/4" Sieve %			
--"-- 1/2" Sieve %	100.0	100.0	100.0
--"-- No.4 Sieve %	98.6	99.3	99.5
--"-- No.10 Sieve %	94.9	93.2	96.9
--"-- No.40 Sieve %	89.4	85.4	90.0
--"-- No.100 Sieve %	84.6	77.1	82.9
--"-- No.200 Sieve %	81.7	73.1	78.5
Sand % (AASHTO T 88)	13.2	20.1	18.4
Silt % (AASHTO T 88)	42.2	43.4	48.3
Clay % (AASHTO T 88)	39.5	29.7	30.2
Liquid limit % (AASHTO T 89)	39.0	32.0	34.0
Plasticity index % (AASHTO T 90)	21.0	15.0	16.0
IBR % (Illinois Method)			
Standard Dry Density % (AASHTO T 99)			
Optimum Moisture % (AASHTO T 99)			
Subgrade Support Rating	FAIR	POOR	FAIR
Insitu Moisture % (AASHTO T 99)	31	26	18

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
I-90/94 SB (Sta. 6202+91.11 to Sta. 6252+85.00)

COUNTY
Cook County

Lab. No.	SB90-SGB-02 No.2	SB90-SGB-02 No.2	SB90-SGB-06 No.2	SB90-SGB-06 No.2	SB90-SGB-10 No.2
Station ft)	620274.92	620274.92	621363.32	621363.32	622773.36
Offset (ft)	29.11 RT	29.11 RT	58.68 LT	58.68 LT	27.6237 LT
Depth (ft)	3	3	3.5	3.5	3
AASHTO M 145 Classification and Group Index	A-6 (9)	A-6 (9)	A-6 (11)	A-6 (11)	A-6 (11)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay	Silty Clay Loam
Gradation--Passing 1" Sieve %					
--"-- 3/4" Sieve %					
--"-- 1/2" Sieve %	100.0	100.0	100.0	100.0	
--"-- No.4 Sieve %	98.5	98.5	99.6	99.6	100.0
--"-- No.10 Sieve %	96.5	96.5	97.5	97.5	98.5
--"-- No.40 Sieve %	90.9	90.9	90.6	90.6	93.5
--"-- No.100 Sieve %	82.0	82.0	84.6	84.6	88.8
--"-- No.200 Sieve %	76.9	76.9	81.0	81.0	85.4
Sand % (AASHTO T 88)	19.7	19.7	16.6	16.6	13.1
Silt % (AASHTO T 88)	52.7	52.7	51.2	51.2	59.6
Clay % (AASHTO T 88)	24.1	24.1	29.8	29.8	25.8
Liquid limit % (AASHTO T 89)	29.0	29.0	32.0	32.0	31.0
Plasticity index % (AASHTO T 90)	15.0	15.0	14.0	14.0	14.0
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	POOR	POOR	POOR	POOR	POOR
Insitu Moisture % (AASHTO T 99)	16	16	18	18	20

SOIL TEST DATA

SECTION
I-90/94 SB (Sta. 6202+91.11 to Sta. 6252+85.00)

Lab. No.	SB90-SGB-24 No.2	BFB-02 No.2	BFB-04 No.2	SB90-SGB-15 No.2	SB90-SGB-18 No.3	NB90-SGB-03 No.2
Station ft)	622987.24	623562.04	623745.14	624407.68	625330.52	625603.92
Offset (ft)	83.14 RT	69.27' LT	58.81' LT	13.7774 LT	21.5773 LT	42.45 LT
Depth (ft)	3.5	3.5	3.5	3.0	5.0	3.5
AASHTO M 145 Classification and Group Index	A-6 (8)	A-7-6 (24)	A-4 (2)	A-6 (9)	A-7-6 (33)	A-7-6 (15)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Clay	Clay Loam	Silty Clay Loam	Clay	Clay
Gradation--Passing 1" Sieve %						
--"-- 3/4" Sieve %						
--"-- 1/2" Sieve %	100.0		100.0	100.0		100.0
--"-- No.4 Sieve %	98.6	100.0	95.2	99.7	100.0	98.7
--"-- No.10 Sieve %	97.2	99.5	87.3	97.6	99.6	96.1
--"-- No.40 Sieve %	92.1	98.1	73.5	91.1	98.9	90.7
--"-- No.100 Sieve %	87.3	95.9	64.0	82.6	98.0	80.8
--"-- No.200 Sieve %	83.9	94.1	59.2	77.6	97.4	74.8
Sand % (AASHTO T 88)	13.3	5.3	28.1	19.9	2.2	21.4
Silt % (AASHTO T 88)	64.3	38.6	41.7	48.9	40.3	43.9
Clay % (AASHTO T 88)	19.6	55.5	17.5	28.7	57.1	30.8
Liquid limit % (AASHTO T 89)	28.0	44.0	25.0	30	53	43
Plasticity index % (AASHTO T 90)	12.0	24.0	9.0	13	30	21
IBR % (Illinois Method)						
Standard Dry Density % (AASHTO T 99)						
Optimum Moisture % (AASHTO T 99)						
Subgrade Support Rating	POOR	FAIR	POOR	POOR	FAIR	FAIR
Insitu Moisture % (AASHTO T 99)	23	36	14	21	46	33

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

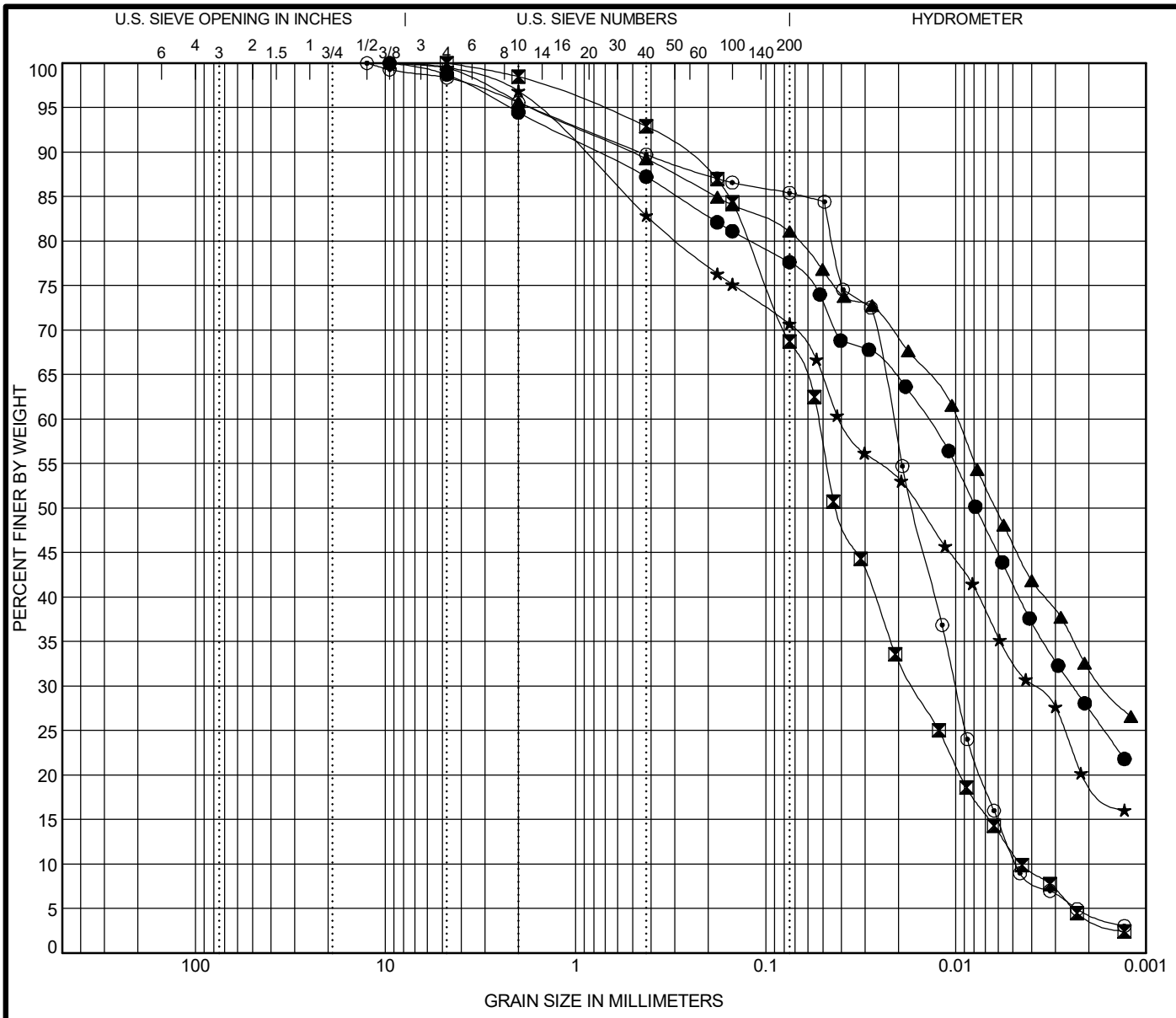
SECTION
Ramp SW (Sta. 1300+00.00 to Sta. 1319+75.65)

COUNTY
Cook County

Lab. No.	SB90-SGB-02 No.2
Station ft)	1301+55.54
Offset (ft)	14.7720 LT
Depth (ft)	3
AASHTO M 145 Classification and Group Index	A-6 (9)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam
Gradation--Passing 1" Sieve %	
--"-- 3/4" Sieve %	
--"-- 1/2" Sieve %	100.0
--"-- No.4 Sieve %	98.5
--"-- No.10 Sieve %	96.5
--"-- No.40 Sieve %	90.9
--"-- No.100 Sieve %	82.0
--"-- No.200 Sieve %	76.9
Sand % (AASHTO T 88)	19.7
Silt % (AASHTO T 88)	52.7
Clay % (AASHTO T 88)	24.1
Liquid limit % (AASHTO T 89)	29.0
Plasticity index % (AASHTO T 90)	15.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
Insitu Moisture % (AASHTO T 99)	16

APPENDIX C

Laboratory Test Results



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 02-RWB-01#5	11.0 ft	**Silty Clay Loam**	**33**	**15**	**18**		
⊠ 02-RWB-01#18	58.5 ft	**Silty Loam**	**NP**	**NP**	**NP**	**1.16**	**11.61**
▲ 02-RWB-02#8	18.5 ft	**Silty Clay**	**36**	**16**	**20**		
★ 02-RWB-03#3	6.0 ft	**Silty Clay Loam**	**30**	**14**	**16**		
⊙ 02-RWB-03#15	43.5 ft	**Silt**	**NP**	**NP**	**NP**	**0.97**	**4.44**

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 02-RWB-01#5	11.0 ft	**9.5**	**0.014**	**0.002**		**5.5**	**17.0**	**50.1**	**27.4**
⊠ 02-RWB-01#18	58.5 ft	**4.75**	**0.053**	**0.017**	**0.005**	**1.5**	**30.0**	**64.4**	**4.0**
▲ 02-RWB-02#8	18.5 ft	**9.5**	**0.01**	**0.002**		**4.3**	**14.7**	**48.9**	**32.1**
★ 02-RWB-03#3	6.0 ft	**9.5**	**0.041**	**0.004**		**3.1**	**26.3**	**51.1**	**19.5**
⊙ 02-RWB-03#15	43.5 ft	**12.5**	**0.021**	**0.01**	**0.005**	**4.4**	**10.2**	**80.9**	**4.5**

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Number: 1100-04-01

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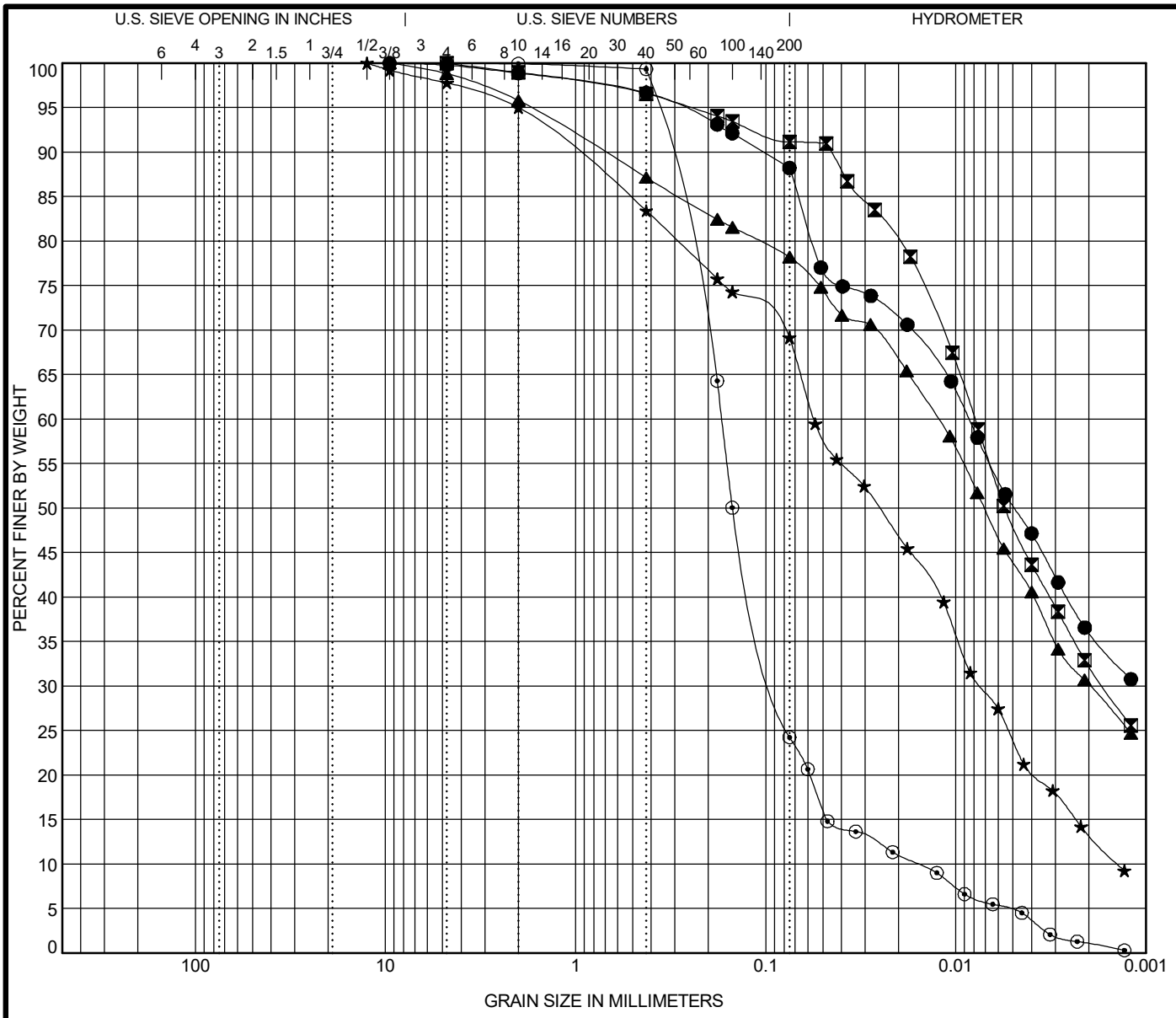

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification	LL	PL	PI	Cc	Cu
●	02-RWB-03#19	63.5 ft	**Silty Clay**	**37**	**14**	**23**		
⊠	02-RWB-04#17	53.5 ft	**Silty Clay**	**31**	**15**	**16**		
▲	02-RWB-05#4	8.5 ft	**Silty Clay**	**34**	**15**	**19**		
★	02-RWB-05#16	48.5 ft	**Silty Loam**	**26**	**13**	**13**	**0.70**	**39.71**
⊙	02-RWB-05#19	63.5 ft	**Sandy Loam**	**NP**	**NP**	**NP**	**2.84**	**10.77**

Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	02-RWB-03#19	63.5 ft	**9.5**	**0.009**			**1.1**	**11.1**	**51.8**	**36.1**
⊠	02-RWB-04#17	53.5 ft	**4.75**	**0.008**	**0.002**		**1.0**	**7.8**	**58.9**	**32.3**
▲	02-RWB-05#4	8.5 ft	**9.5**	**0.012**	**0.002**		**4.2**	**17.7**	**47.9**	**30.2**
★	02-RWB-05#16	48.5 ft	**12.5**	**0.056**	**0.007**	**0.001**	**5.0**	**26.3**	**55.4**	**13.3**
⊙	02-RWB-05#19	63.5 ft	**4.75**	**0.17**	**0.088**	**0.016**	**0.1**	**75.9**	**23.0**	**1.0**

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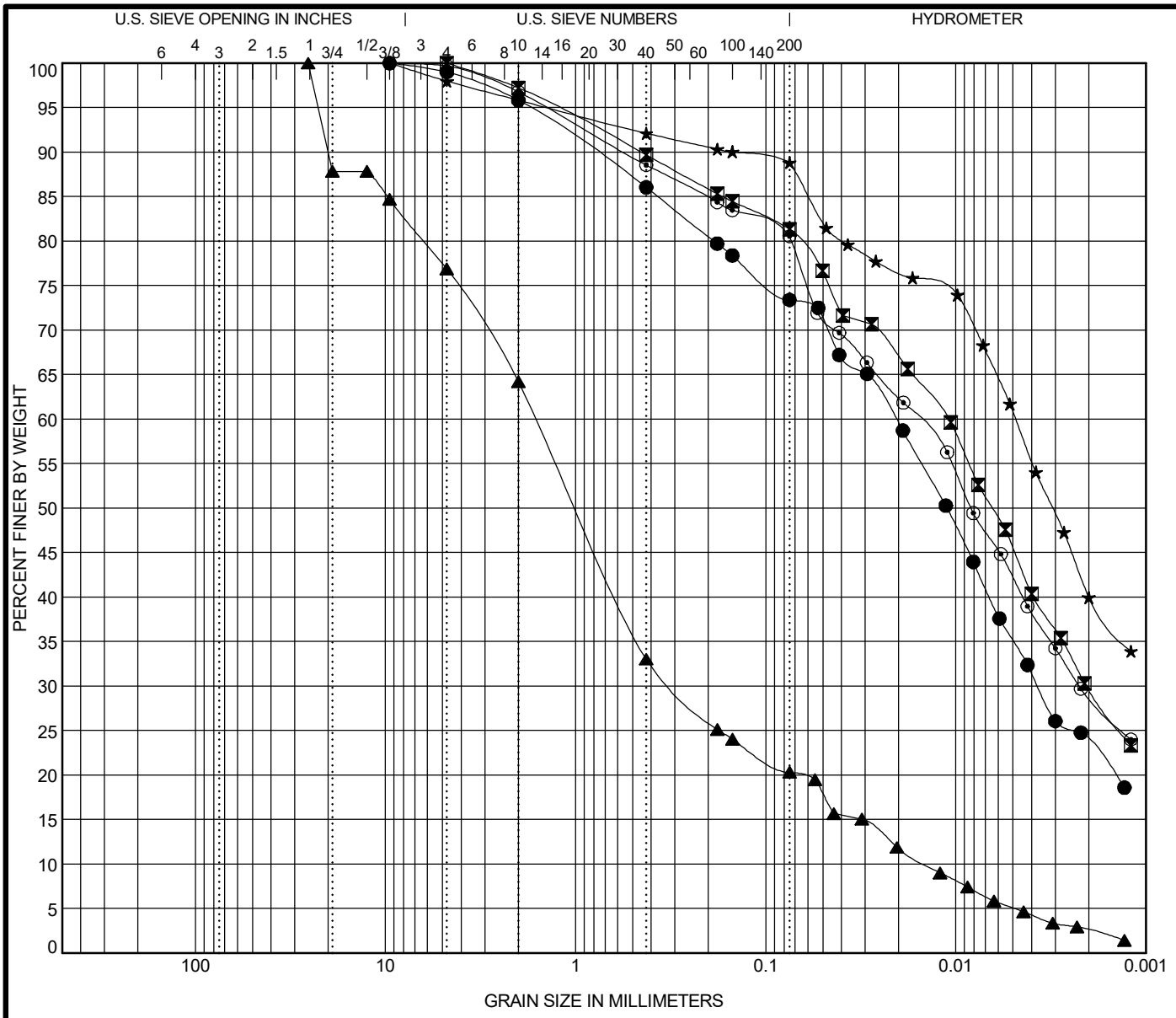

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	02-RWB-06#3	6.0 ft	**Silty Clay Loam**	**26**	**13**	**13**		
⊠	02-RWB-06#11	26.0 ft	**Silty Clay**	**36**	**16**	**20**		
▲	02-RWB-06#19	63.5 ft	**Gravelly Sandy Loam**	**NP**	**NP**	**NP**	**3.98**	**112.11**
★	02-RWB-06#23	83.5 ft	**Silty Clay**	**40**	**15**	**25**		
⊙	02-ST-06#2	18.0 ft	**Silty Clay Loam**	**35**	**17**	**18**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	02-RWB-06#3	6.0 ft	**9.5**	**0.021**	**0.004**		**4.2**	**22.5**	**49.7**	**23.6**
⊠	02-RWB-06#11	26.0 ft	**4.75**	**0.011**	**0.002**		**2.8**	**16.1**	**51.5**	**29.7**
▲	02-RWB-06#19	63.5 ft	**25.4**	**1.622**	**0.306**	**0.014**	**35.8**	**43.9**	**17.7**	**2.6**
★	02-RWB-06#23	83.5 ft	**9.5**	**0.005**			**4.2**	**7.2**	**48.6**	**40.0**
⊙	02-ST-06#2	18.0 ft	**9.5**	**0.016**	**0.002**		**3.2**	**16.6**	**51.4**	**28.8**

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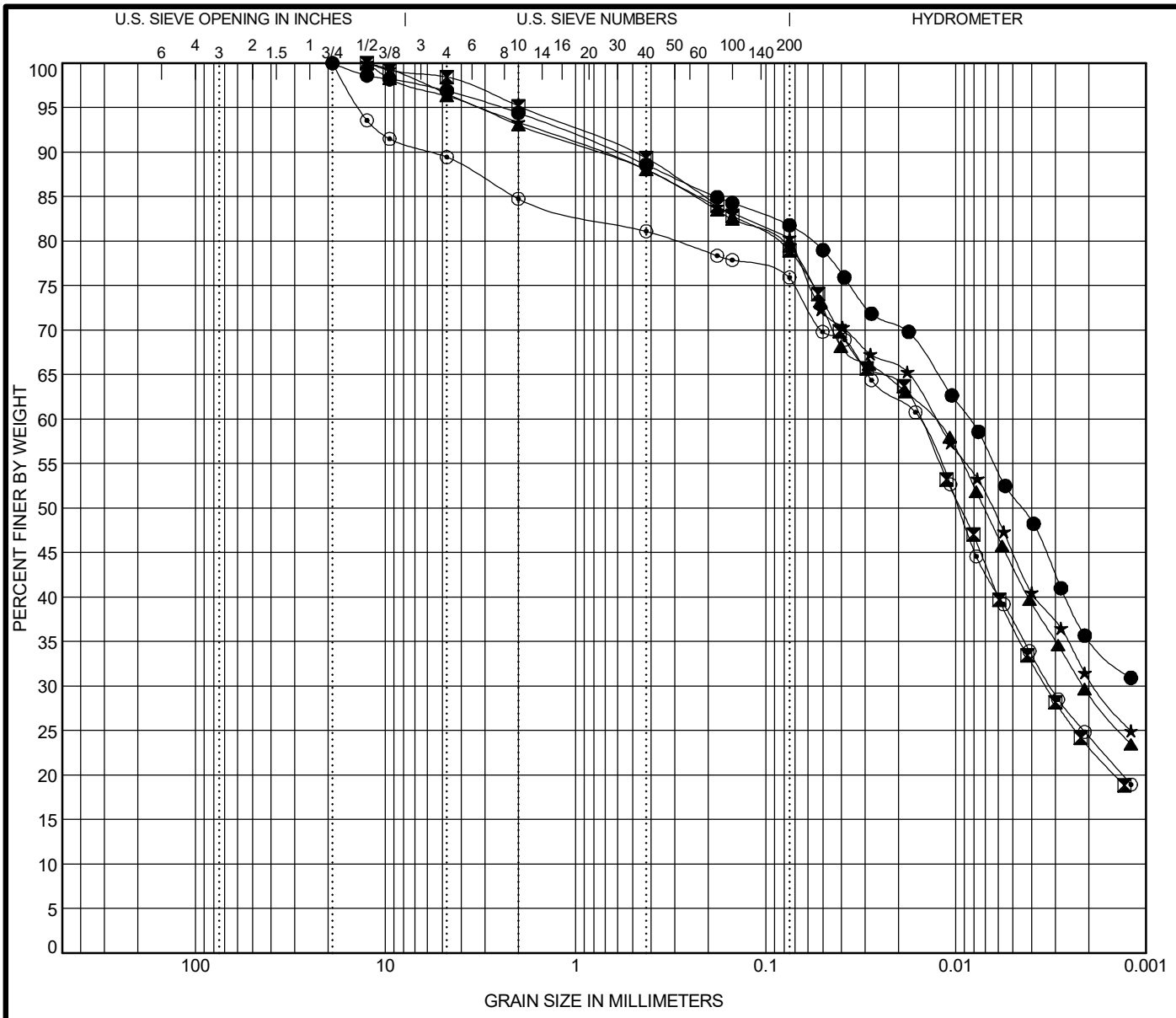

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	02-ST-06#3	33.0 ft	**Clay**	37	17	20		
⊠	0589-B-01#8	58.5 ft	**Silty Clay Loam**	28	15	13		
▲	0589-B-03#12	28.5 ft	**Silty Clay**	34	16	18		
★	08-RWB-01#8	18.5 ft	**Silty Clay**	36	17	19		
⊙	08-RWB-02#11	38.5 ft	**Gravelly Silty Clay Loam**	32	17	15		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	02-ST-06#3	33.0 ft	**19**	**0.009**			**5.6**	**12.7**	**46.4**	**35.3**
⊠	0589-B-01#8	58.5 ft	**12.5**	**0.016**	**0.003**		**4.8**	**16.4**	**55.6**	**23.2**
▲	0589-B-03#12	28.5 ft	**12.5**	**0.013**	**0.002**		**7.0**	**13.9**	**50.1**	**29.1**
★	08-RWB-01#8	18.5 ft	**12.5**	**0.013**	**0.002**		**6.6**	**13.3**	**49.2**	**30.9**
⊙	08-RWB-02#11	38.5 ft	**19**	**0.016**	**0.003**		**15.2**	**9.0**	**51.4**	**24.3**

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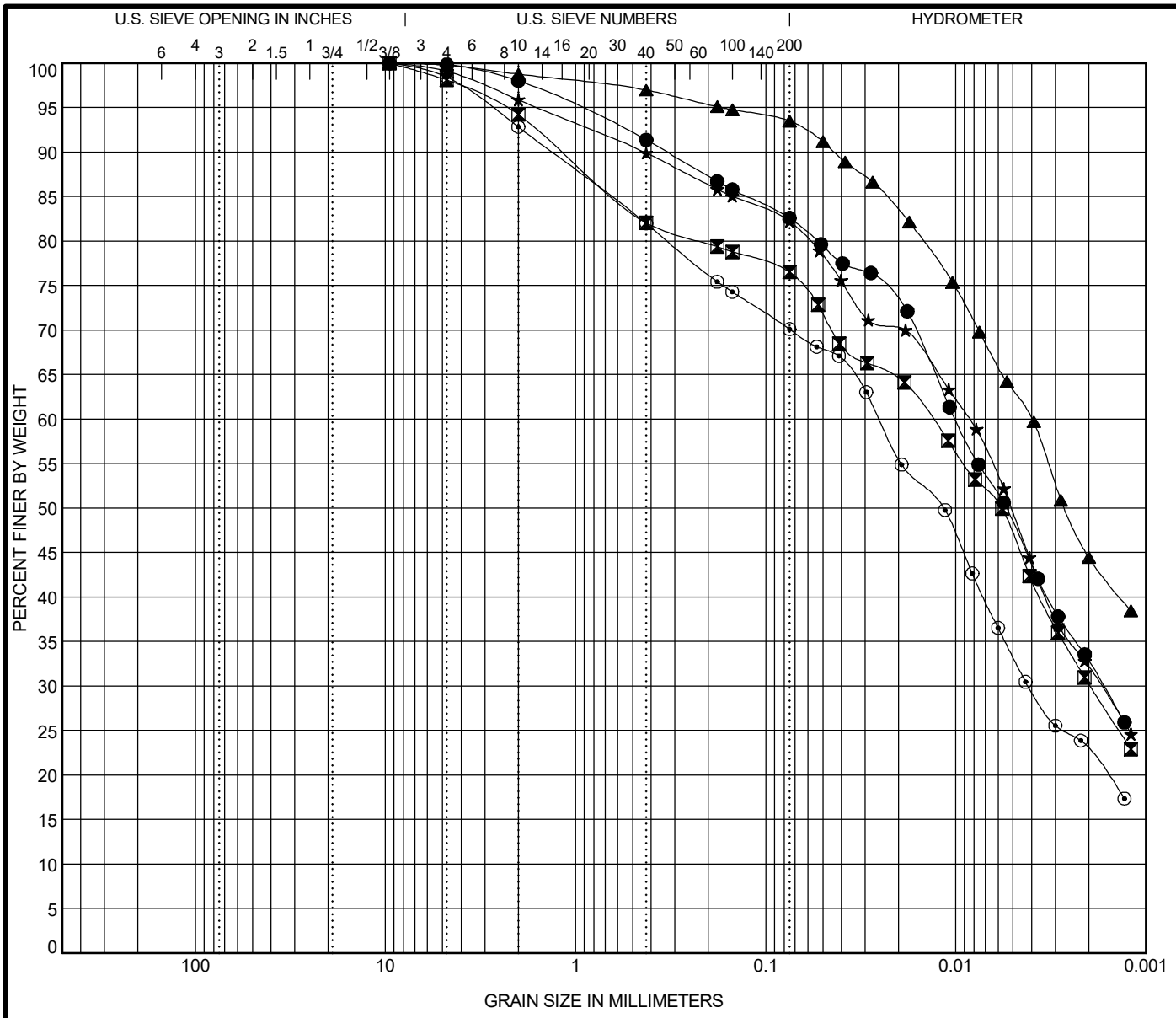

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification	LL	PL	PI	Cc	Cu
●	1088-B-02#11	26.0 ft	**Silty Clay**	**34**	**15**	**19**		
⊠	1165-B-01B#13	33.5 ft	**Clay**	**35**	**15**	**20**		
▲	1165-B-01B#19	63.5 ft	**Clay**	**40**	**16**	**24**		
★	1165-B-02#6	13.5 ft	**Silty Clay**	**36**	**15**	**21**		
⊙	1165-B-02#18	58.5 ft	**Silty Clay Loam**	**29**	**14**	**15**		

Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	1088-B-02#11	26.0 ft	**9.5**	**0.01**	**0.002**		**2.0**	**15.5**	**49.7**	**32.8**
⊠	1165-B-01B#13	33.5 ft	**9.5**	**0.013**	**0.002**		**5.8**	**17.8**	**46.1**	**30.3**
▲	1165-B-01B#19	63.5 ft	**9.5**	**0.004**			**1.2**	**5.3**	**49.0**	**44.5**
★	1165-B-02#6	13.5 ft	**9.5**	**0.008**	**0.002**		**4.1**	**13.8**	**50.0**	**32.1**
⊙	1165-B-02#18	58.5 ft	**9.5**	**0.025**	**0.004**		**7.2**	**22.8**	**47.3**	**22.7**

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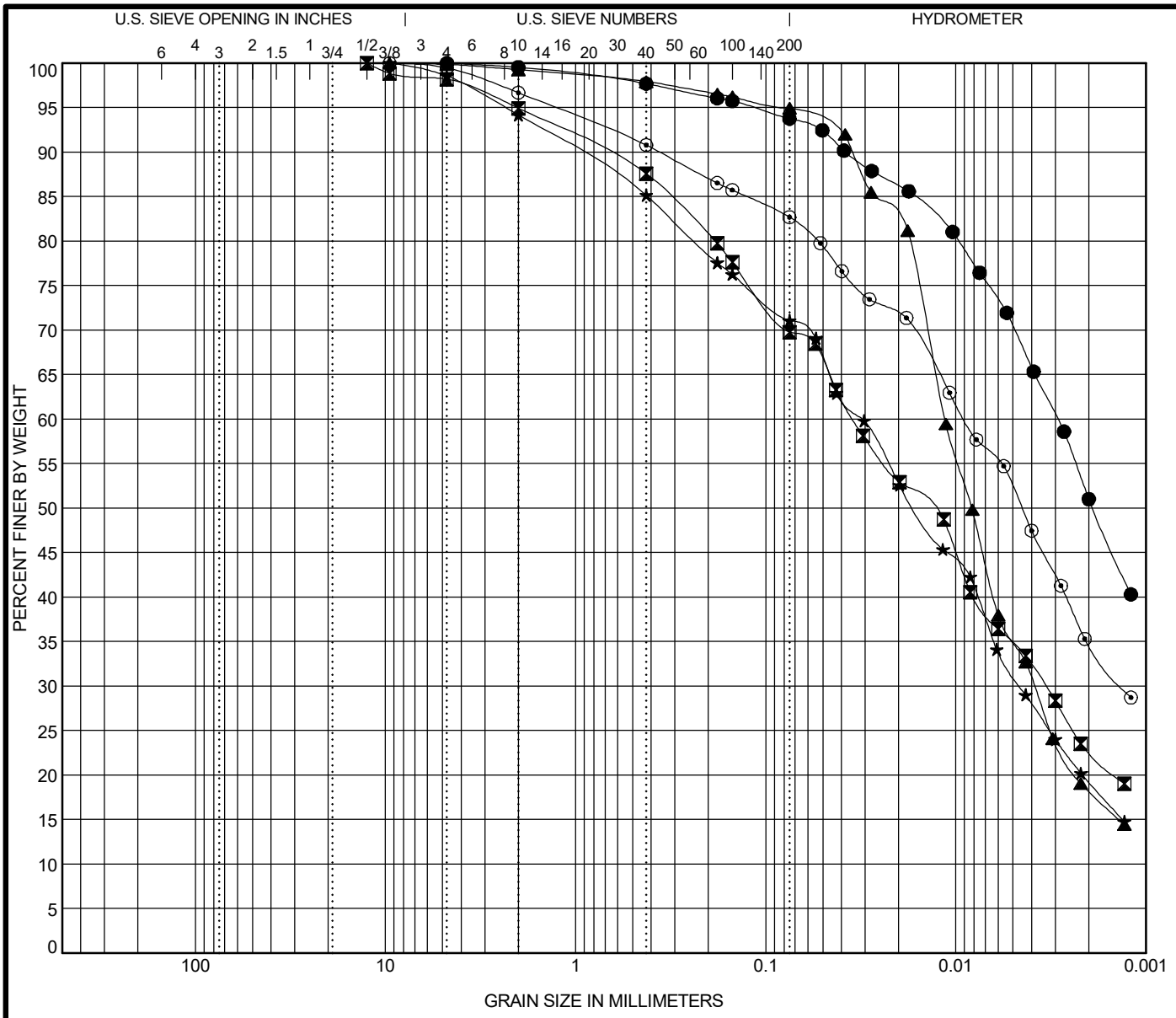

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	14-RWB-02#14 38.5 ft	**Clay**	**41**	**18**	**23**		
⊠	14-RWB-03#16 48.5 ft	**Clay Loam**	**26**	**15**	**11**		
▲	16-RWB-01B#15 43.5 ft	**Silty Loam**	**26**	**20**	**6**		
★	16-RWB-02#15 43.5 ft	**Silty Clay Loam**	**25**	**16**	**9**		
⊙	16-RWB-04B#10 23.5 ft	**Clay**	**34**	**18**	**16**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	14-RWB-02#14 38.5 ft	**4.75**	**0.003**			**0.5**	**5.8**	**42.7**	**51.0**
⊠	14-RWB-03#16 48.5 ft	**12.5**	**0.035**	**0.003**		**5.1**	**25.2**	**47.0**	**22.7**
▲	16-RWB-01B#15 43.5 ft	**9.5**	**0.011**	**0.004**		**0.7**	**4.4**	**76.7**	**18.2**
★	16-RWB-02#15 43.5 ft	**9.5**	**0.031**	**0.005**		**5.8**	**23.2**	**51.8**	**19.2**
⊙	16-RWB-04B#10 23.5 ft	**9.5**	**0.009**	**0.001**		**3.3**	**14.1**	**47.9**	**34.7**

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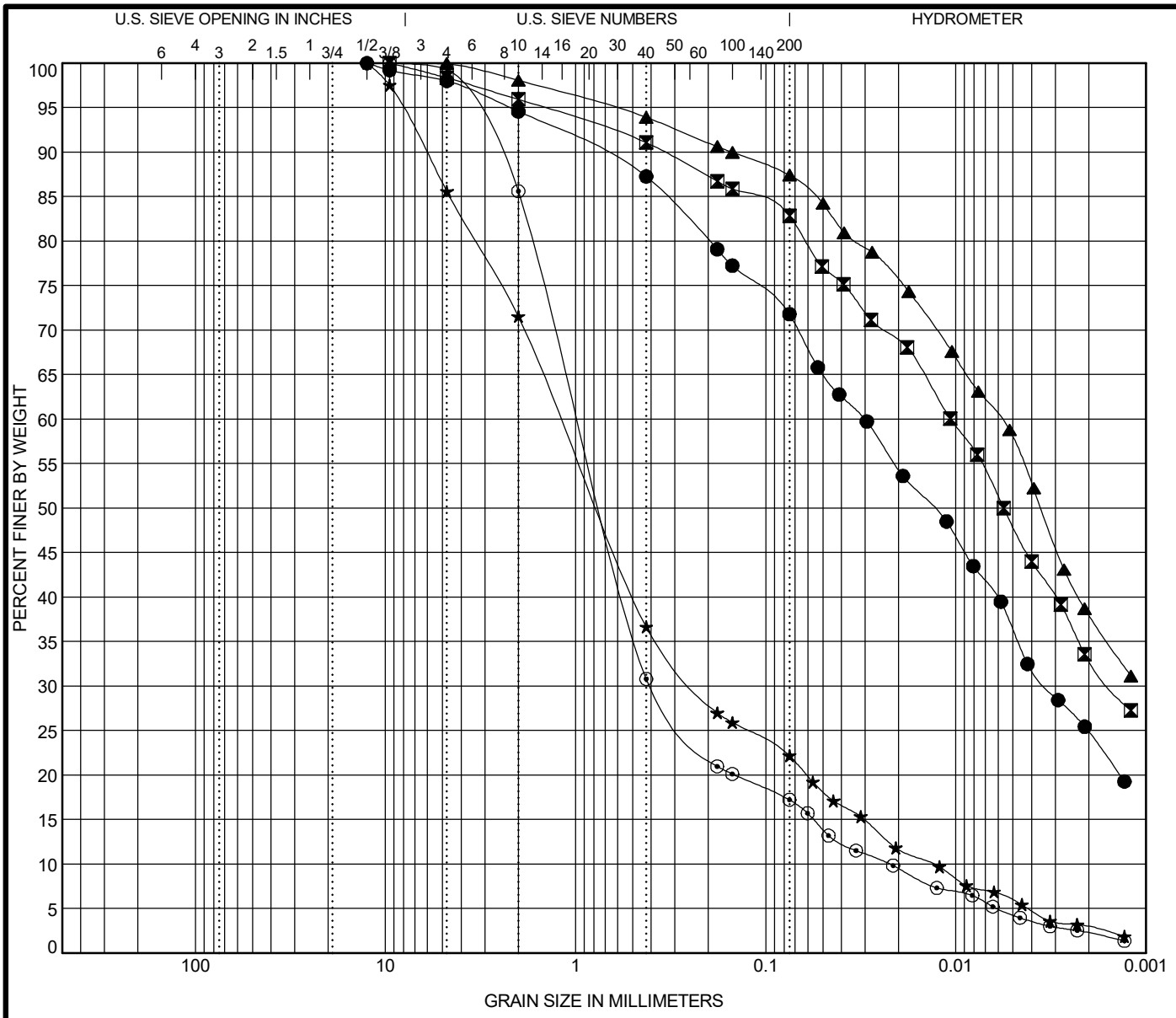

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 1702-B-01#9	21.0 ft	**Clay Loam**	**28**	**14**	**14**		
⊠ 1702-B-03#9	63.5 ft	**Silty Clay**	**34**	**17**	**17**		
▲ 1705-B-02#13	33.5 ft	**Silty Clay**	**38**	**16**	**22**		
★ 1705-B-02#19	63.5 ft	**Gravelly Sandy Loam**	**NP**	**NP**	**NP**	**3.51**	**91.06**
⊙ 1705-B-02#22	78.5 ft	**Sand**	**NP**	**NP**	**NP**	**7.24**	**43.38**

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1702-B-01#9	21.0 ft	**12.5**	**0.03**	**0.003**		**5.4**	**23.0**	**46.7**	**24.8**
⊠ 1702-B-03#9	63.5 ft	**9.5**	**0.011**	**0.002**		**4.1**	**13.2**	**49.7**	**33.0**
▲ 1705-B-02#13	33.5 ft	**9.5**	**0.006**			**1.9**	**10.7**	**49.3**	**38.0**
★ 1705-B-02#19	63.5 ft	**12.5**	**1.198**	**0.235**	**0.013**	**28.5**	**49.5**	**19.2**	**2.9**
⊙ 1705-B-02#22	78.5 ft	**9.5**	**0.97**	**0.396**	**0.022**	**14.4**	**68.5**	**14.9**	**2.2**

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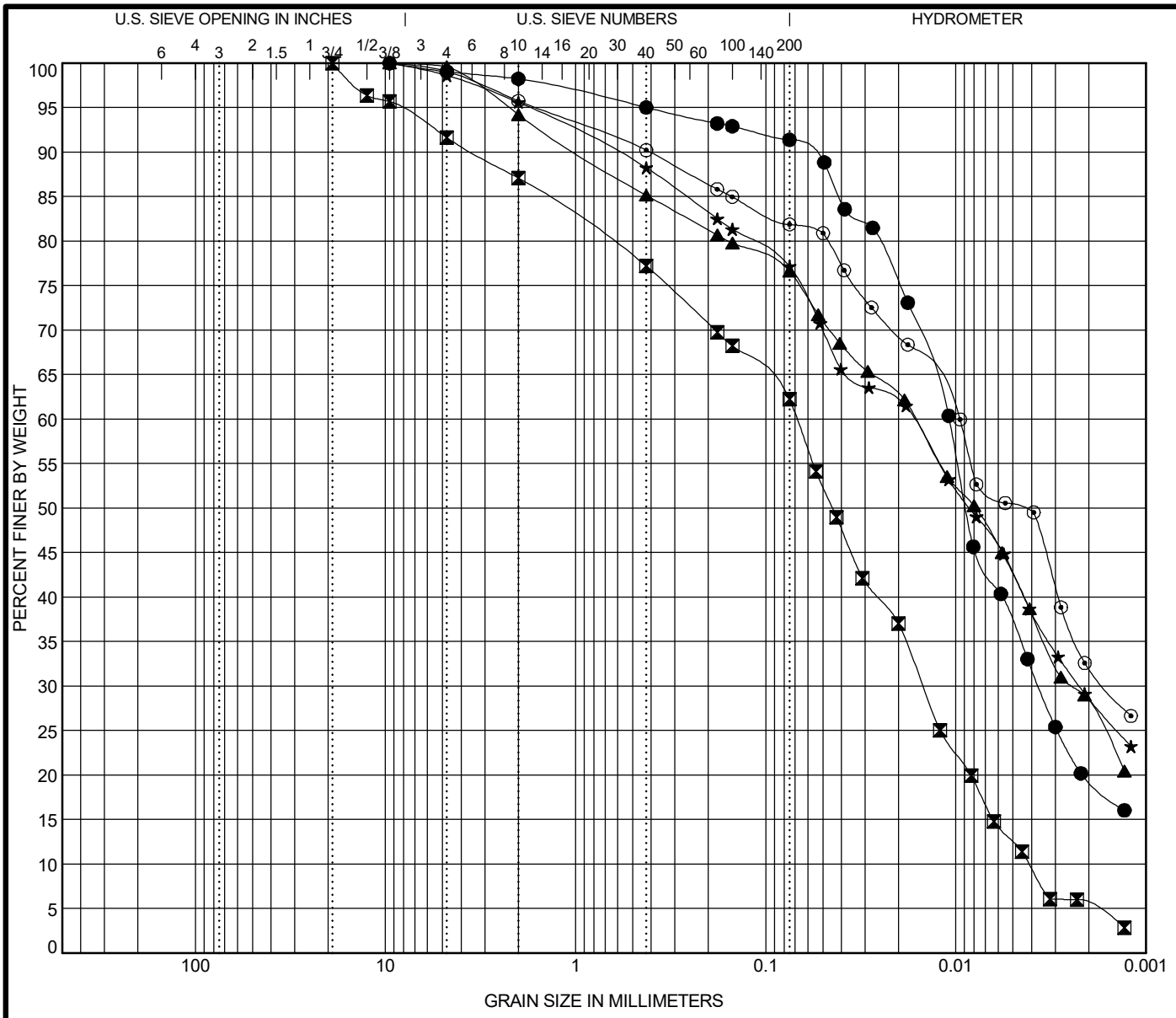

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	1705-B-03#16	48.5 ft	**Silty Loam**	**28**	**14**	**14**		
⊠	1705-B-04#21	73.5 ft	**Silty Loam**	**18**	**14**	**4**	**0.79**	**16.68**
▲	1705-B-05#7	16.0 ft	**Silty Clay Loam**	**35**	**15**	**20**		
★	1705-B-05A#1	10.0 ft	**Silty Clay Loam**	**31**	**17**	**14**		
⊙	1705-B-05A#2	16.0 ft	**Silty Clay**	**34**	**17**	**17**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	1705-B-03#16	48.5 ft	**9.5**	**0.011**	**0.004**		**1.8**	**6.9**	**71.9**	**19.4**
⊠	1705-B-04#21	73.5 ft	**19**	**0.069**	**0.015**	**0.004**	**12.9**	**25.2**	**56.7**	**5.2**
▲	1705-B-05#7	16.0 ft	**9.5**	**0.016**	**0.002**		**5.8**	**17.8**	**48.3**	**28.1**
★	1705-B-05A#1	10.0 ft	**9.5**	**0.017**	**0.002**		**4.4**	**18.7**	**48.3**	**28.6**
⊙	1705-B-05A#2	16.0 ft	**9.5**	**0.01**	**0.002**		**4.2**	**13.9**	**49.8**	**32.1**

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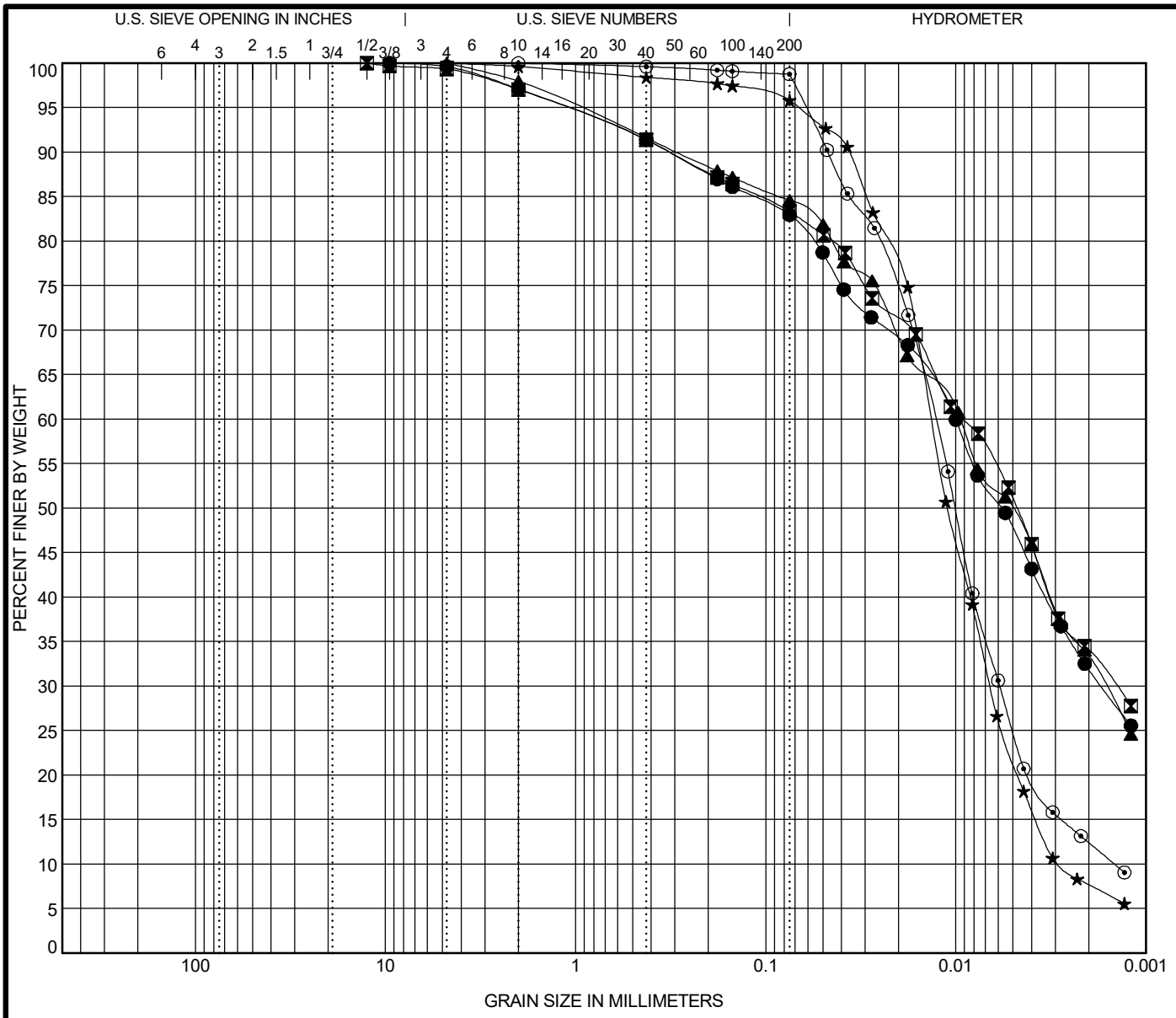

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	1705-B-05A#	16.5 ft	**Silty Clay**	**32**	**17**	**15**		
⊠	1705-B-05A#3	25.0 ft	**Silty Clay**	**33**	**17**	**16**		
▲	1705-B-07#12	28.5 ft	**Silty Clay**	**38**	**17**	**21**		
★	1705-B-07#23	83.5 ft	**Silt**	**NP**	**NP**	**NP**	**1.14**	**4.74**
⊙	1705-B-08#22	78.5 ft	**Silt**	**NP**	**NP**	**NP**	**1.82**	**8.81**

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	1705-B-05A#	16.5 ft	**9.5**	**0.01**	**0.002**		**2.9**	**14.3**	**50.9**	**31.9**
⊠	1705-B-05A#3	25.0 ft	**12.5**	**0.009**	**0.001**		**2.9**	**13.8**	**49.3**	**33.9**
▲	1705-B-07#12	28.5 ft	**4.75**	**0.009**	**0.002**		**2.0**	**13.4**	**51.3**	**33.2**
★	1705-B-07#23	83.5 ft	**4.75**	**0.013**	**0.007**	**0.003**	**0.4**	**3.9**	**88.1**	**7.7**
⊙	1705-B-08#22	78.5 ft	**2**	**0.013**	**0.006**	**0.001**	**0.0**	**1.5**	**86.1**	**12.4**

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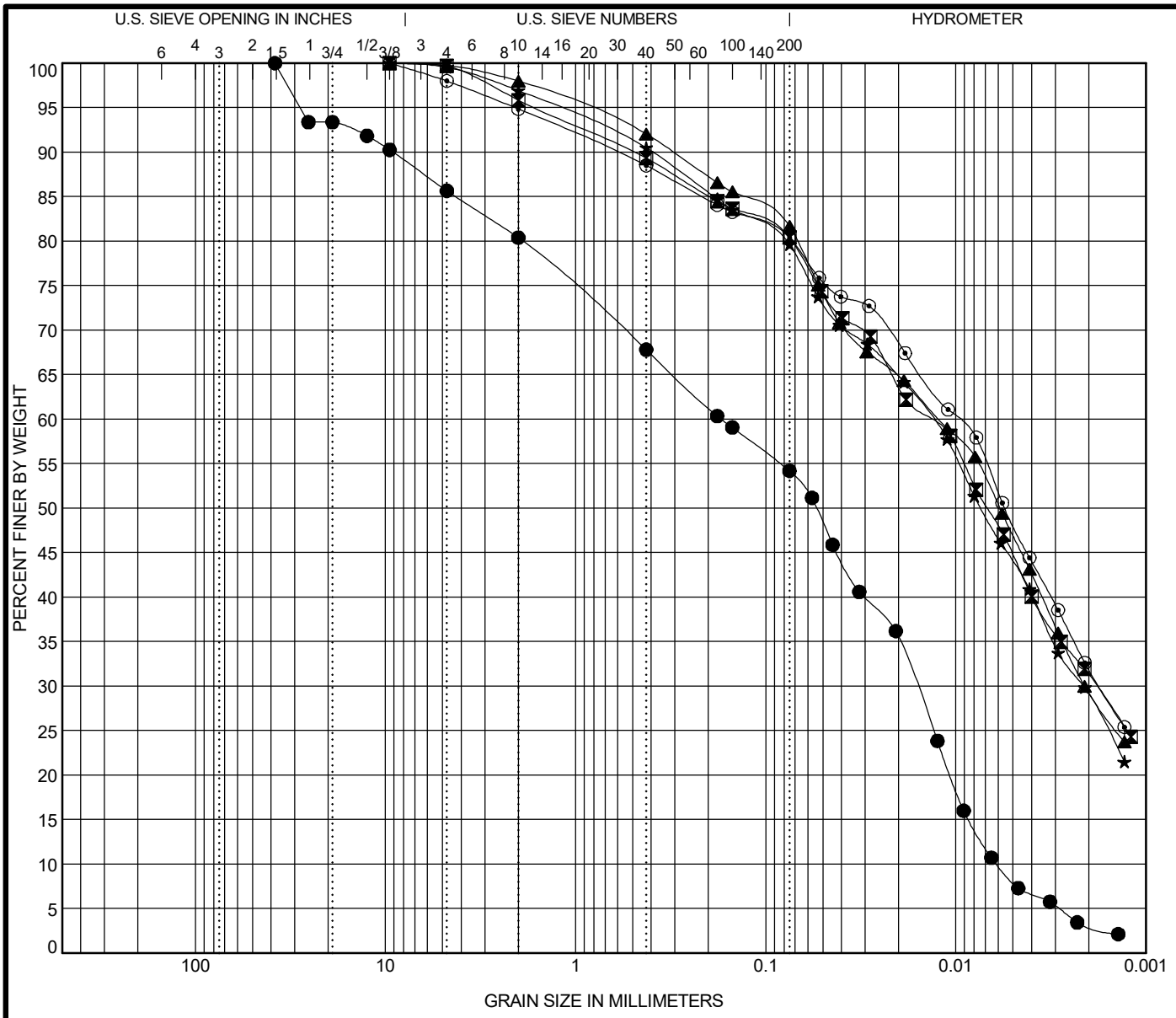

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 1706-B-01#23	83.5 ft	**Gravelly Silty Loam**	**NP**	**NP**	**NP**	**0.25**	**28.20**
⊠ 1706-B-02#8	18.5 ft	**Silty Clay**	**34**	**17**	**17**		
▲ 1710-B-03#2	3.5 ft	**Silty Clay Loam**	**32**	**19**	**13**		
★ 1710-B-03#6	13.5 ft	**Silty Clay Loam**	**33**	**18**	**15**		
⊙ 1710-B-03#13	33.5 ft	**Silty Clay**	**34**	**18**	**16**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1706-B-01#23	83.5 ft	**38.1**	**0.171**	**0.016**	**0.006**	**19.6**	**26.3**	**51.0**	**3.1**
⊠ 1706-B-02#8	18.5 ft	**9.5**	**0.014**	**0.002**		**4.2**	**15.6**	**49.0**	**31.3**
▲ 1710-B-03#2	3.5 ft	**9.5**	**0.012**	**0.002**		**2.0**	**16.6**	**52.1**	**29.3**
★ 1710-B-03#6	13.5 ft	**9.5**	**0.013**	**0.002**		**3.1**	**17.5**	**50.4**	**29.0**
⊙ 1710-B-03#13	33.5 ft	**9.5**	**0.01**	**0.002**		**5.2**	**14.6**	**48.4**	**31.9**

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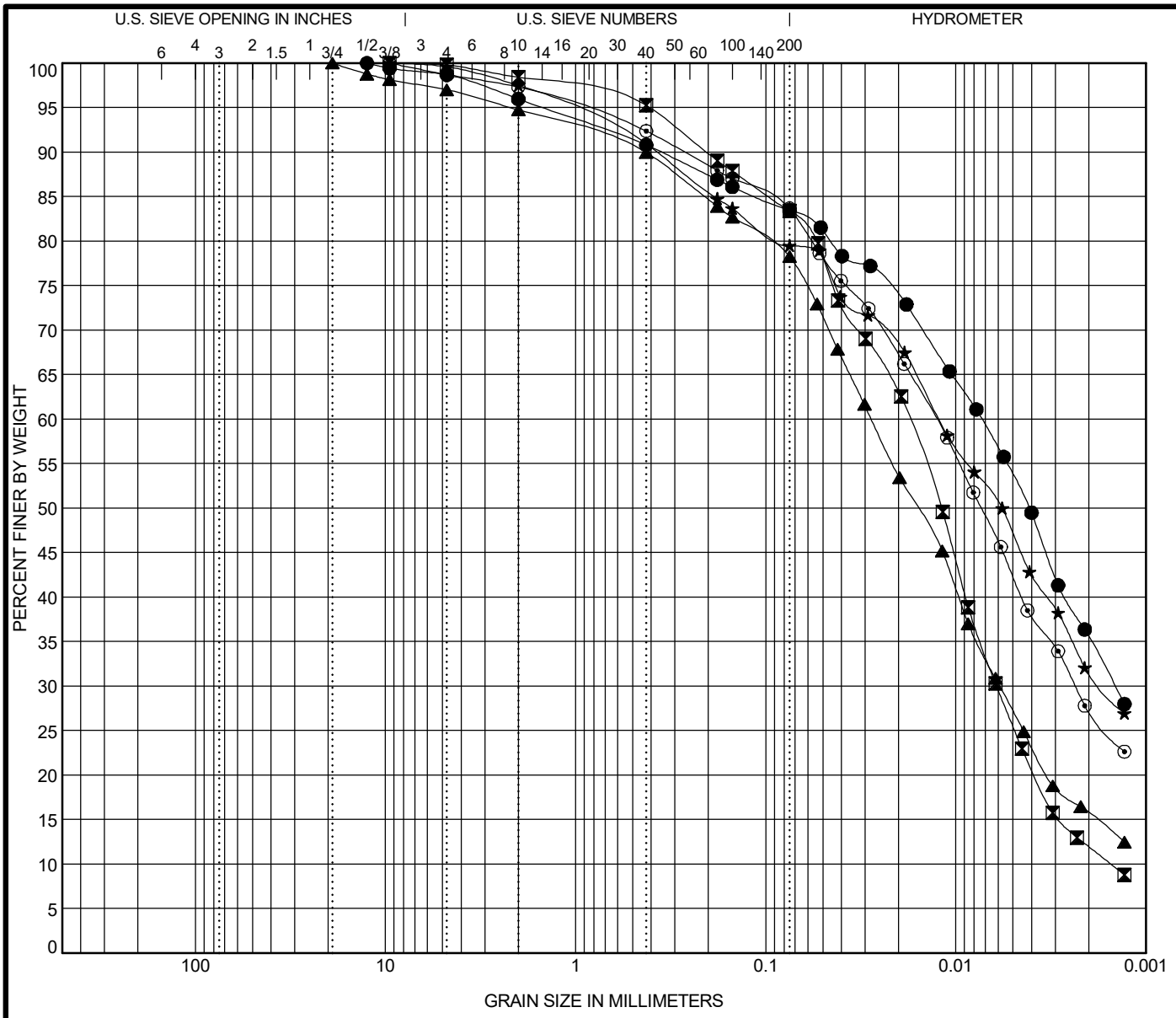

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	1710-B-03#16	48.5 ft	**Clay**	**34**	**18**	**16**		
⊠	1710-B-03#20	68.5 ft	**Silty Loam**	**20**	**16**	**4**	**1.39**	**11.46**
▲	1710-B-03#23	83.5 ft	**Silty Loam**	**23**	**15**	**8**		
★	1710-B-04#5	11.0 ft	**Clay**	**33**	**17**	**16**		
⊙	1710-B-04#9	21.0 ft	**Silty Clay Loam**	**29**	**16**	**13**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	1710-B-03#16	48.5 ft	**12.5**	**0.007**	**0.001**		**4.0**	**12.6**	**47.9**	**35.5**
⊠	1710-B-03#20	68.5 ft	**9.5**	**0.018**	**0.006**	**0.002**	**1.6**	**15.1**	**71.3**	**11.9**
▲	1710-B-03#23	83.5 ft	**19**	**0.028**	**0.006**		**5.2**	**16.7**	**62.3**	**15.7**
★	1710-B-04#5	11.0 ft	**9.5**	**0.012**	**0.002**		**2.5**	**18.0**	**47.9**	**31.6**
⊙	1710-B-04#9	21.0 ft	**9.5**	**0.013**	**0.002**		**2.7**	**13.8**	**56.2**	**27.3**

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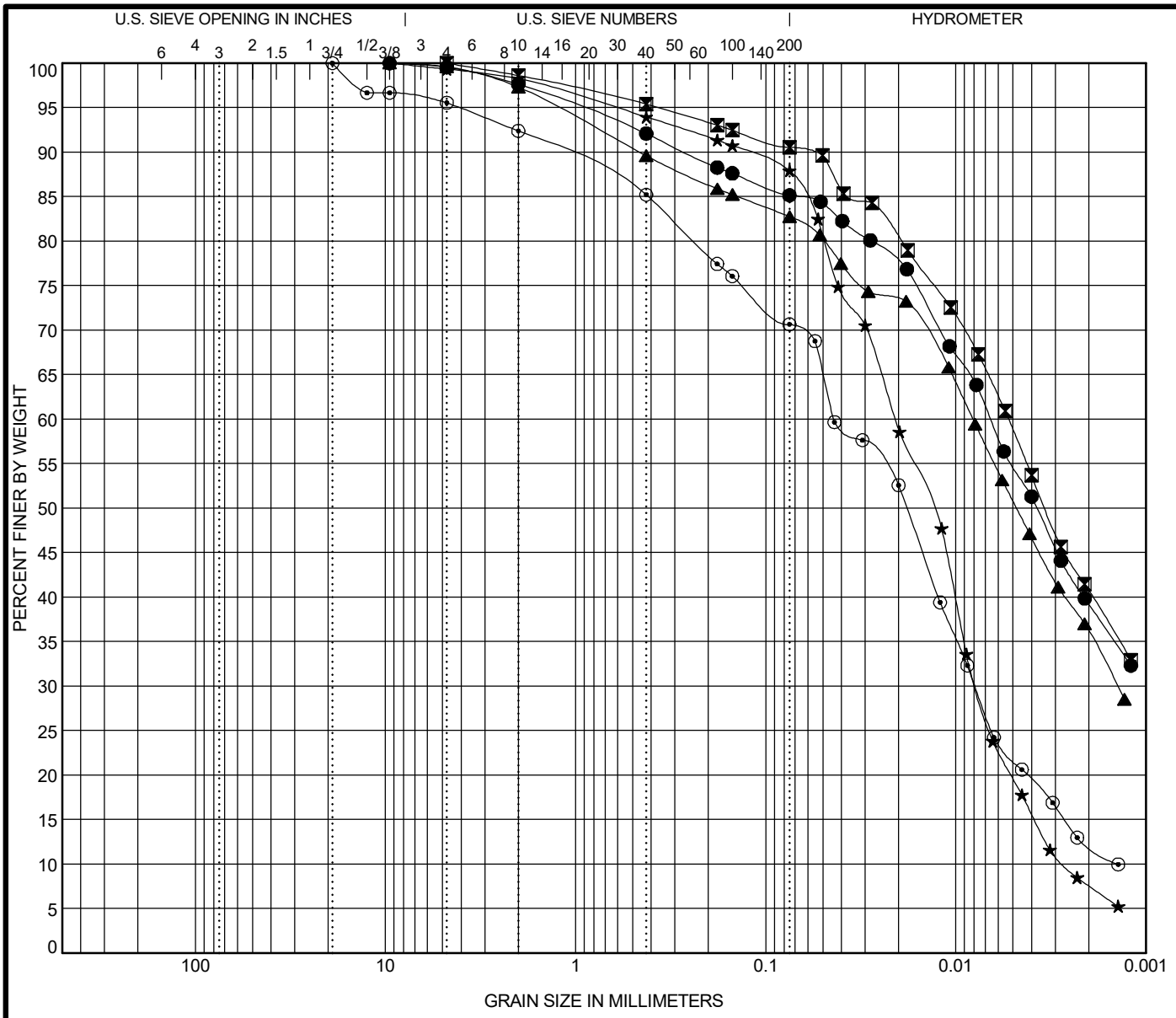

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 1710-B-04#15	43.5 ft	**Clay**	**35**	**18**	**17**		
⊠ 1710-B-04#17	53.5 ft	**Silty Clay**	**36**	**18**	**18**		
▲ 1710-B-04#18	58.5 ft	**Clay**	**35**	**18**	**17**		
★ 1710-B-04#20	68.5 ft	**Silt**	**21**	**19**	**2**	**1.09**	**7.70**
⊙ 1710-B-04#23	83.5 ft	**Silty Loam**	**20**	**14**	**6**	**1.02**	**31.14**

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1710-B-04#15	43.5 ft	**9.5**	**0.007**			**2.4**	**12.5**	**45.9**	**39.2**
⊠ 1710-B-04#17	53.5 ft	**4.75**	**0.005**			**1.4**	**8.1**	**49.8**	**40.7**
▲ 1710-B-04#18	58.5 ft	**9.5**	**0.008**	**0.001**		**2.7**	**14.6**	**46.6**	**36.1**
★ 1710-B-04#20	68.5 ft	**9.5**	**0.021**	**0.008**	**0.003**	**1.7**	**10.5**	**80.1**	**7.6**
⊙ 1710-B-04#23	83.5 ft	**19**	**0.044**	**0.008**	**0.001**	**7.6**	**21.8**	**58.4**	**12.1**

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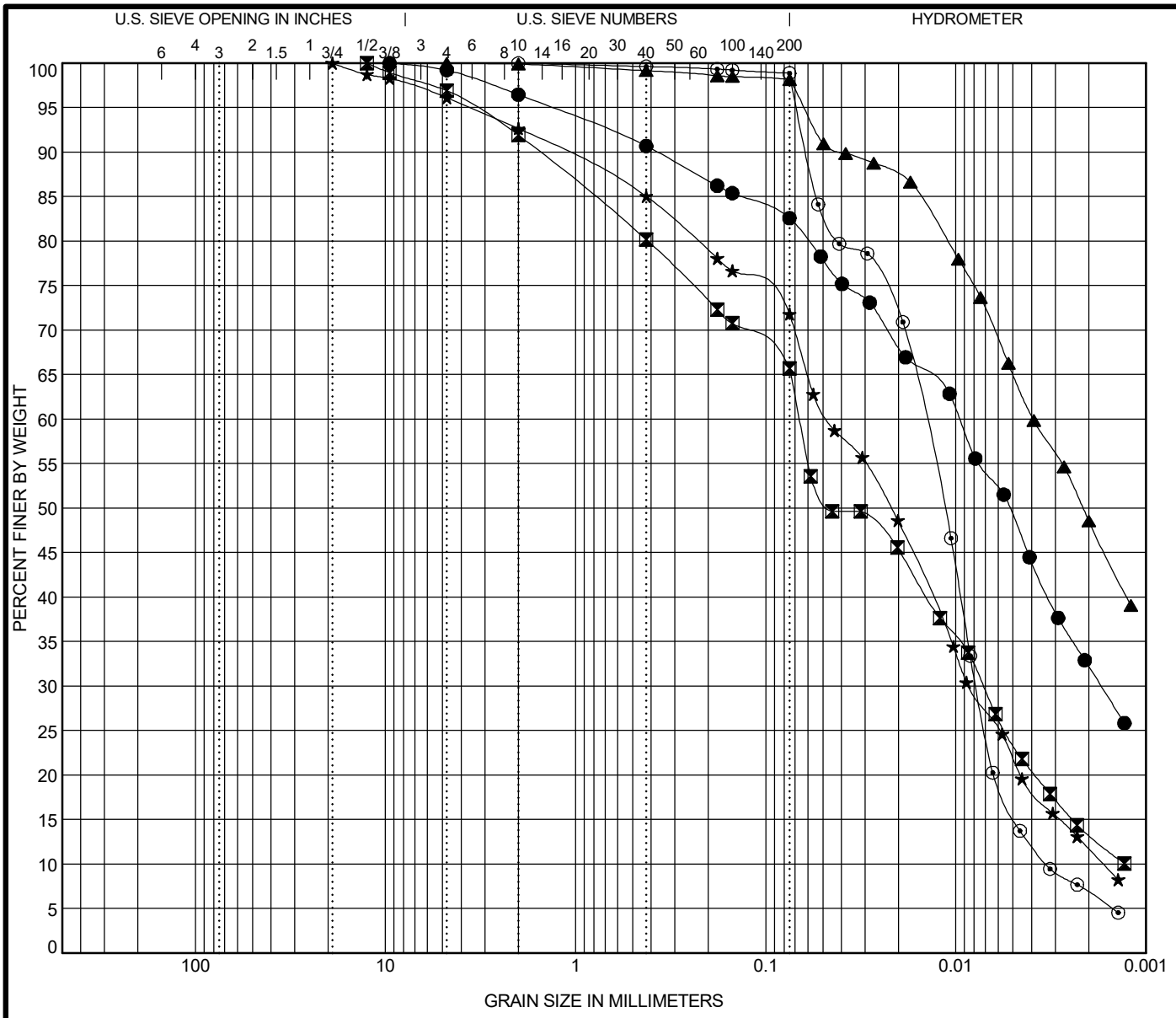

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 1712-B-02#9	21.0 ft	**Silty Clay**	**35**	**18**	**17**		
⊠ 1712-B-02#15	43.5 ft	**Silty Loam**	**27**	**16**	**11**		
▲ 1712-B-02#17	53.5 ft	**Clay**	**36**	**19**	**17**		
★ 1712-B-02#20	68.5 ft	**Silty Loam**	**19**	**14**	**5**	**0.92**	**28.12**
⊙ 1712-B-02#23	83.5 ft	**Silt**	**NP**	**NP**	**NP**	**1.25**	**4.36**

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1712-B-02#9	21.0 ft	**9.5**	**0.01**	**0.002**		**3.5**	**14.0**	**50.3**	**32.2**
⊠ 1712-B-02#15	43.5 ft	**12.5**	**0.066**	**0.007**		**8.1**	**26.9**	**51.7**	**13.3**
▲ 1712-B-02#17	53.5 ft	**4.75**	**0.004**			**0.1**	**2.0**	**49.4**	**48.5**
★ 1712-B-02#20	68.5 ft	**19**	**0.047**	**0.009**	**0.002**	**7.4**	**21.3**	**59.7**	**11.7**
⊙ 1712-B-02#23	83.5 ft	**2**	**0.015**	**0.008**	**0.003**	**0.0**	**1.7**	**91.5**	**6.8**

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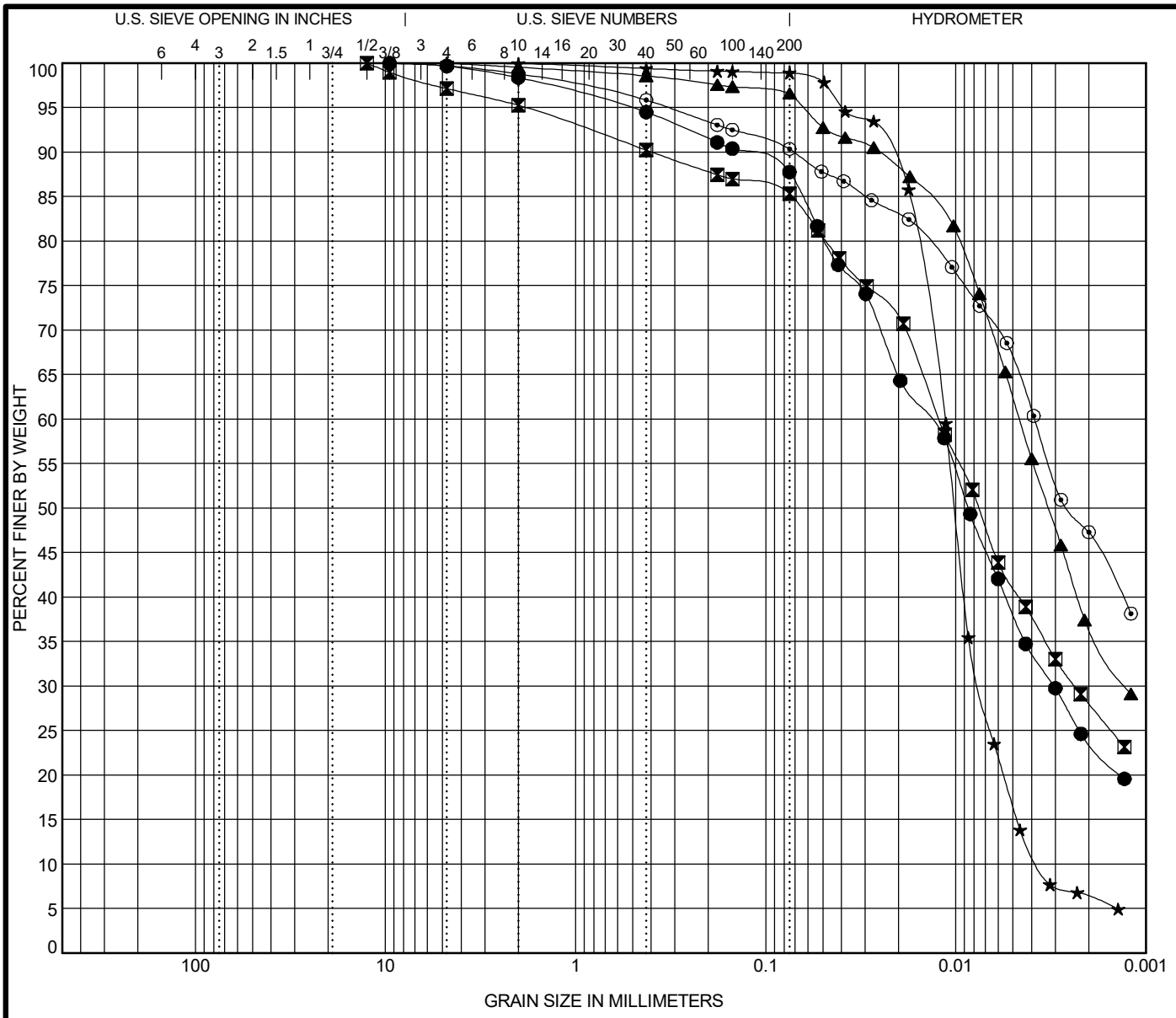

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 1715-B-01#21	73.5 ft	**Silty Clay Loam**	**29**	**16**	**13**		
⊠ 1715-B-01#24	88.5 ft	**Silty Clay Loam**	**29**	**16**	**13**		
▲ 1715-B-03#16	48.5 ft	**Silty Clay**	**36**	**18**	**18**		
★ 1715-B-03#23	83.5 ft	**Silt**	**NP**	**NP**	**NP**	**1.33**	**3.11**
⊙ 2054-B-01#6	13.5 ft	**Clay**	**42**	**19**	**23**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1715-B-01#21	73.5 ft	**9.5**	**0.014**	**0.003**		**1.6**	**10.8**	**63.8**	**23.7**
⊠ 1715-B-01#24	88.5 ft	**12.5**	**0.012**	**0.002**		**4.7**	**10.1**	**57.2**	**28.0**
▲ 1715-B-03#16	48.5 ft	**4.75**	**0.005**	**0.001**		**0.5**	**3.1**	**59.8**	**36.7**
★ 1715-B-03#23	83.5 ft	**4.75**	**0.011**	**0.007**	**0.004**	**0.1**	**1.1**	**92.6**	**6.3**
⊙ 2054-B-01#6	13.5 ft	**9.5**	**0.004**			**1.2**	**8.5**	**43.0**	**47.3**

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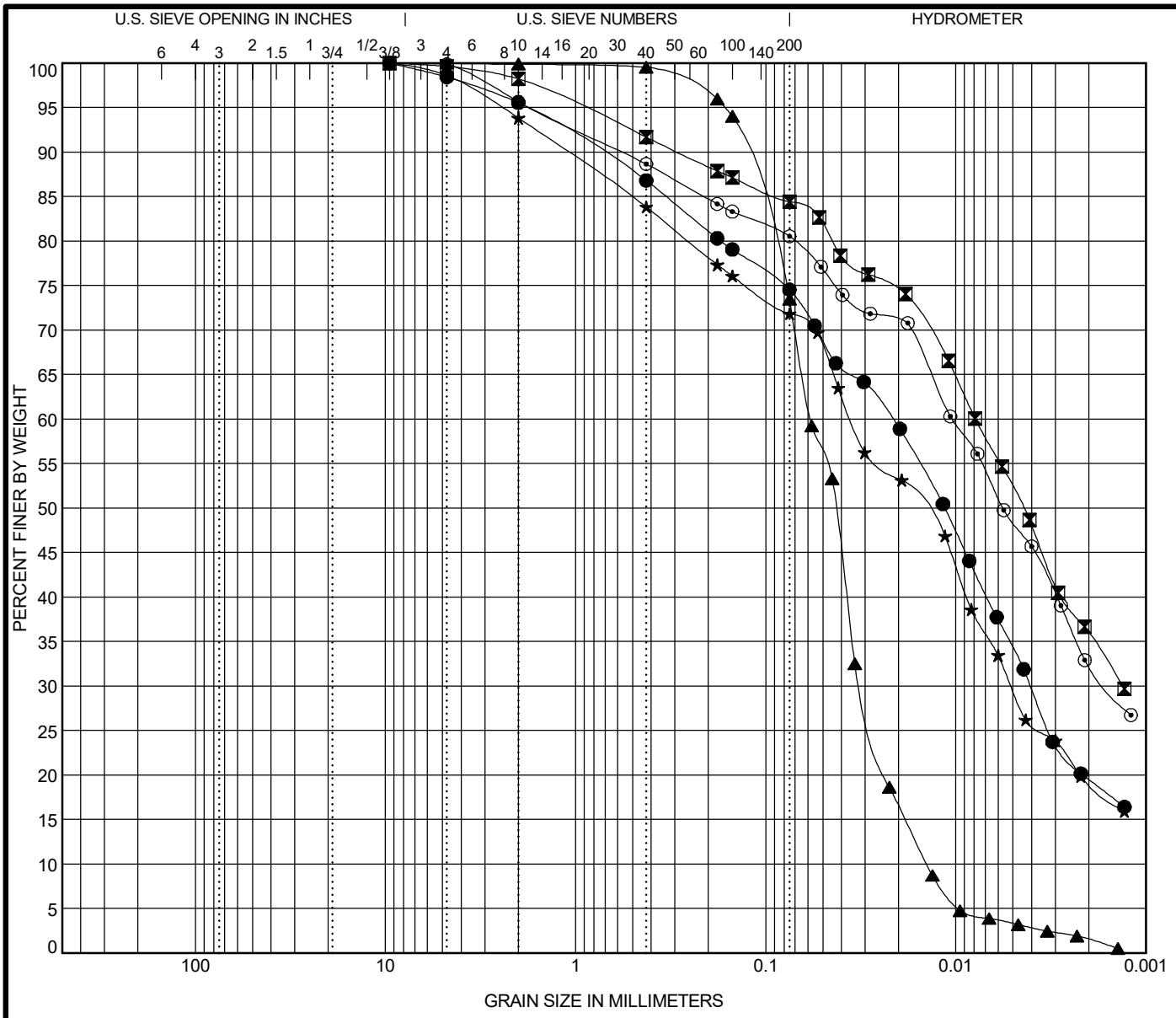

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification	LL	PL	PI	Cc	Cu
●	2054-B-02#15	43.5 ft	**Silty Clay Loam**	**27**	**16**	**11**		
⊠	2054-B-03#13	33.5 ft	**Clay**	**37**	**19**	**18**		
▲	2054-B-03#23	83.5 ft	**Silty Loam**	**NP**	**NP**	**NP**	**1.21**	**4.08**
★	2055-B-02#23	83.5 ft	**Silty Clay Loam**	**26**	**14**	**12**		
⊙	2055-B-04#7	16.0 ft	**Silty Clay**	**35**	**15**	**20**		

Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	2054-B-02#15	43.5 ft	**9.5**	**0.022**	**0.004**		**4.4**	**21.2**	**54.9**	**19.5**
⊠	2054-B-03#13	33.5 ft	**9.5**	**0.008**	**0.001**		**1.8**	**13.8**	**48.4**	**35.9**
▲	2054-B-03#23	83.5 ft	**4.75**	**0.058**	**0.032**	**0.014**	**0.1**	**27.1**	**71.3**	**1.5**
★	2055-B-02#23	83.5 ft	**9.5**	**0.036**	**0.005**		**6.2**	**22.1**	**52.6**	**19.1**
⊙	2055-B-04#7	16.0 ft	**9.5**	**0.01**	**0.002**		**4.3**	**15.2**	**48.0**	**32.4**

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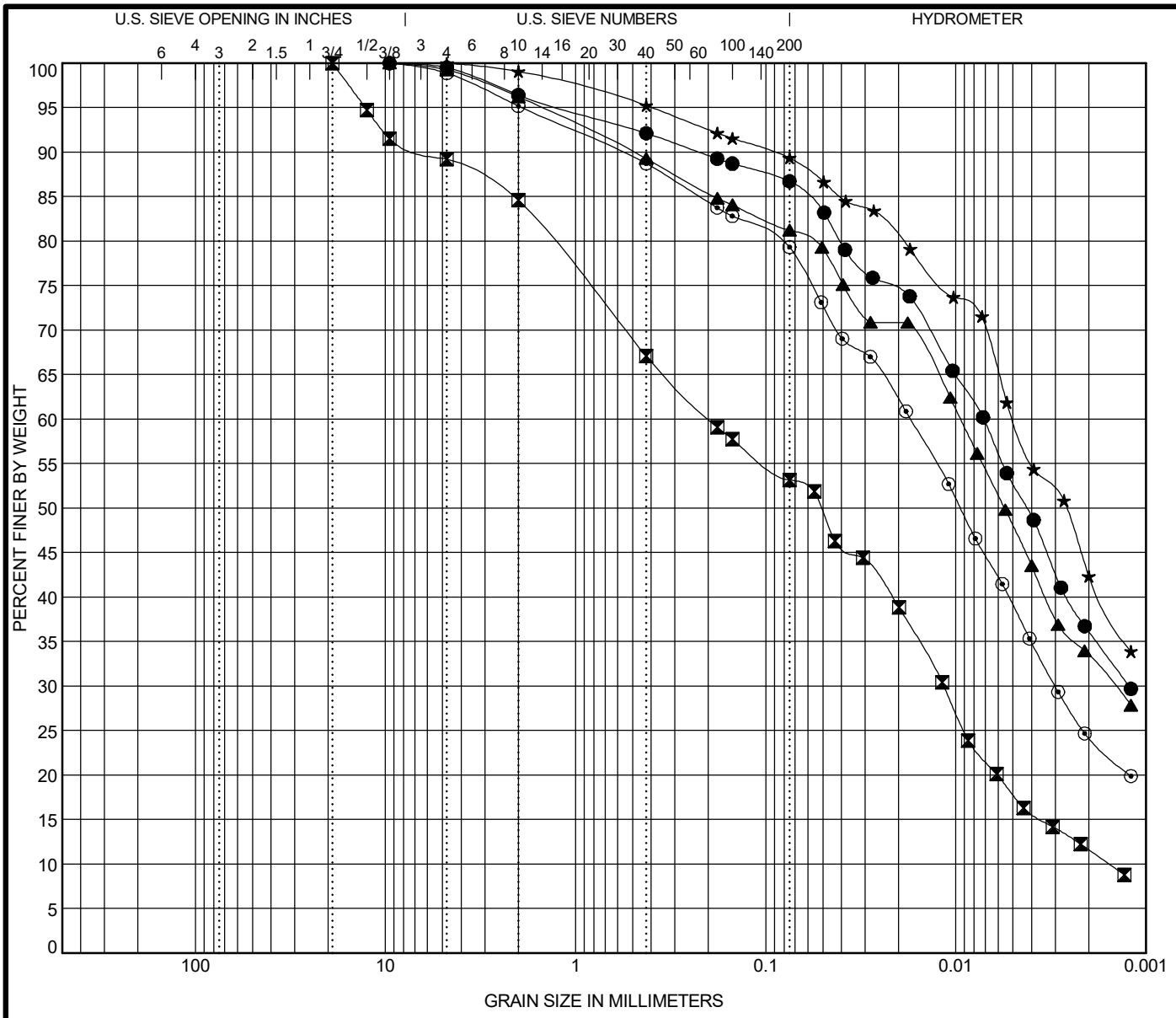

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	2055-B-04#14	38.5 ft	**Silty Clay**	**35**	**15**	**20**		
⊠	2055-B-04#15	43.5 ft	**Gravelly Loam**	**22**	**13**	**9**	**0.43**	**127.28**
▲	2055-B-05#6	13.5 ft	**Clay**	**35**	**15**	**20**		
★	2055-B-05#14	38.5 ft	**Clay**	**38**	**16**	**22**		
⊙	20-RWB-01#7	16.0 ft	**Silty Clay Loam**	**31**	**16**	**15**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	2055-B-04#14	38.5 ft	**9.5**	**0.007**	**0.001**		**3.6**	**9.8**	**50.5**	**36.1**
⊠	2055-B-04#15	43.5 ft	**19**	**0.199**	**0.012**	**0.002**	**15.4**	**31.5**	**41.5**	**11.6**
▲	2055-B-05#6	13.5 ft	**9.5**	**0.009**	**0.001**		**3.8**	**15.1**	**47.7**	**33.4**
★	2055-B-05#14	38.5 ft	**9.5**	**0.005**			**0.9**	**9.8**	**46.9**	**42.3**
⊙	20-RWB-01#7	16.0 ft	**9.5**	**0.017**	**0.003**		**4.8**	**16.1**	**54.8**	**24.3**

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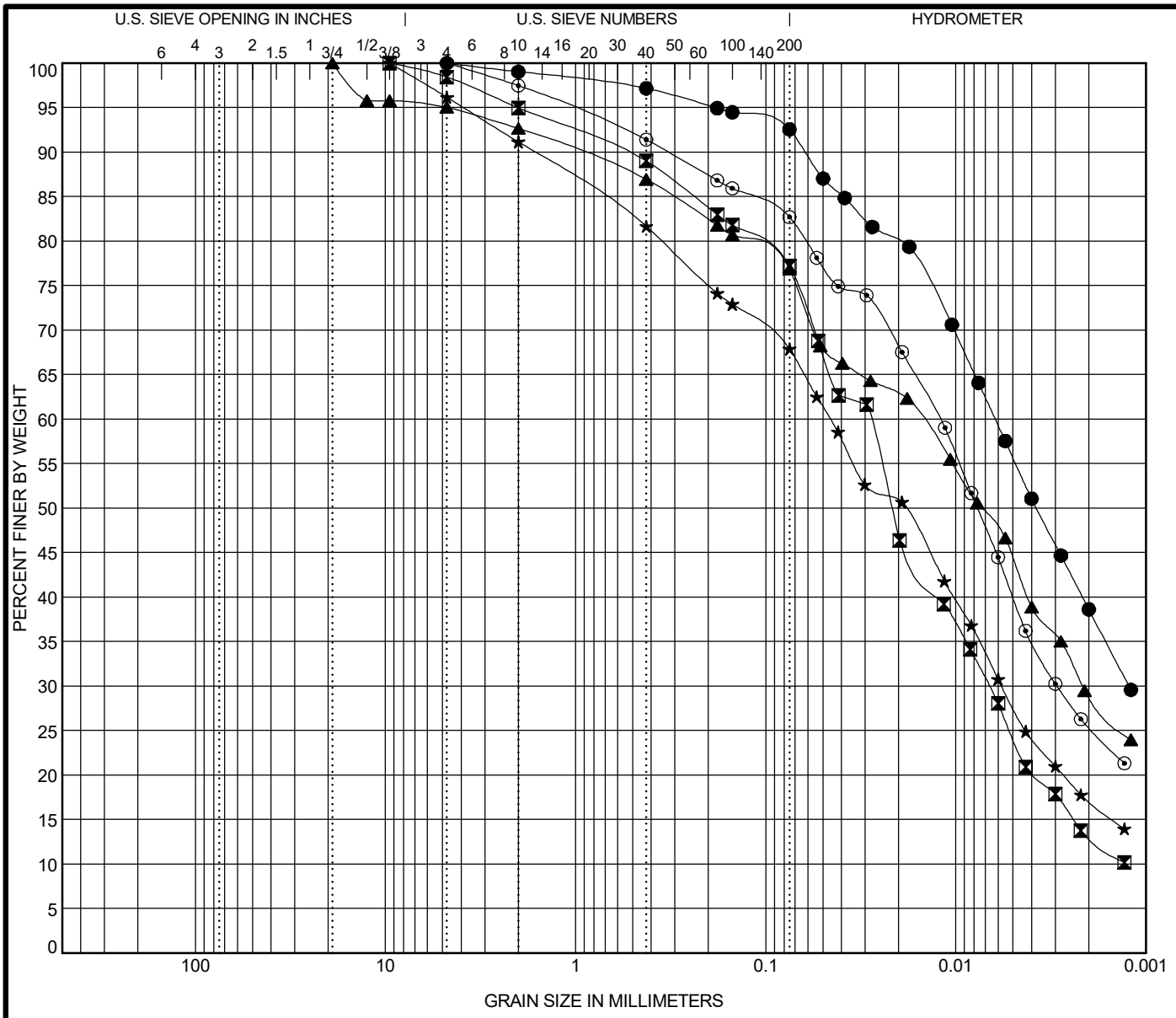

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	20-RWB-01#16	48.5 ft	**Silty Clay**	**35**	**18**	**17**		
⊠	21-RWB-02#24	89.0 ft	**Silty Loam**	**22**	**14**	**8**		
▲	21-RWB-04#10	23.5 ft	**Silty Clay**	**34**	**17**	**17**		
★	21-RWB-05#18	58.5 ft	**Silty Loam**	**25**	**15**	**10**		
⊙	22-RWB-03#6	13.5 ft	**Silty Clay Loam**	**32**	**18**	**14**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	20-RWB-01#16	48.5 ft	**4.75**	**0.006**	**0.001**		**1.0**	**6.7**	**53.8**	**38.6**
⊠	21-RWB-02#24	89.0 ft	**9.5**	**0.028**	**0.007**		**5.0**	**18.1**	**63.8**	**13.1**
▲	21-RWB-04#10	23.5 ft	**19**	**0.015**	**0.002**		**7.3**	**16.1**	**47.5**	**29.0**
★	21-RWB-05#18	58.5 ft	**9.5**	**0.046**	**0.006**		**8.8**	**23.5**	**50.6**	**17.1**
⊙	22-RWB-03#6	13.5 ft	**4.75**	**0.012**	**0.003**		**2.5**	**15.0**	**57.1**	**25.4**

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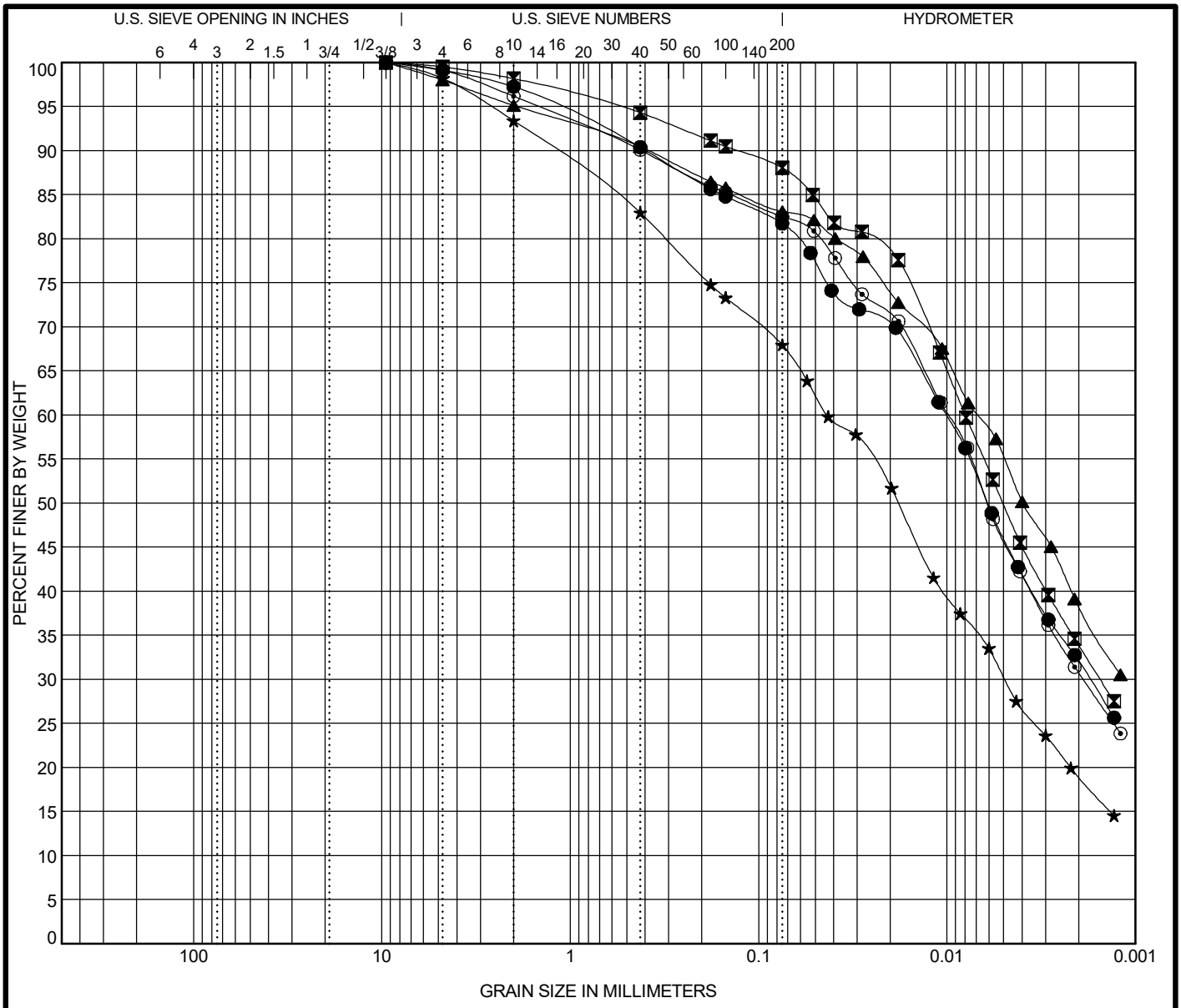

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	22-RWB-03#13	33.5 ft	**Silty Clay**	**33**	**18**	**15**		
⊠	22-RWB-03#18	58.5 ft	**Silty Clay**	**35**	**18**	**17**		
▲	23-RWB-03#12	28.5 ft	**Clay**	**36**	**17**	**19**		
★	23-RWB-03#15	43.5 ft	**Silty Clay Loam**	**25**	**16**	**9**		
⊙	24-RWB-03#8	18.5 ft	**Silty Clay**	**32**	**17**	**15**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	22-RWB-03#13	33.5 ft	**9.5**	**0.01**	**0.002**		**2.7**	**15.7**	**49.6**	**32.0**
⊠	22-RWB-03#18	58.5 ft	**9.5**	**0.008**	**0.002**		**1.8**	**10.2**	**54.1**	**33.9**
▲	23-RWB-03#12	28.5 ft	**9.5**	**0.007**			**4.9**	**12.1**	**44.7**	**38.4**
★	23-RWB-03#15	43.5 ft	**9.5**	**0.043**	**0.005**		**6.6**	**25.6**	**48.8**	**19.0**
⊙	24-RWB-03#8	18.5 ft	**9.5**	**0.01**	**0.002**		**3.8**	**13.7**	**51.7**	**30.7**

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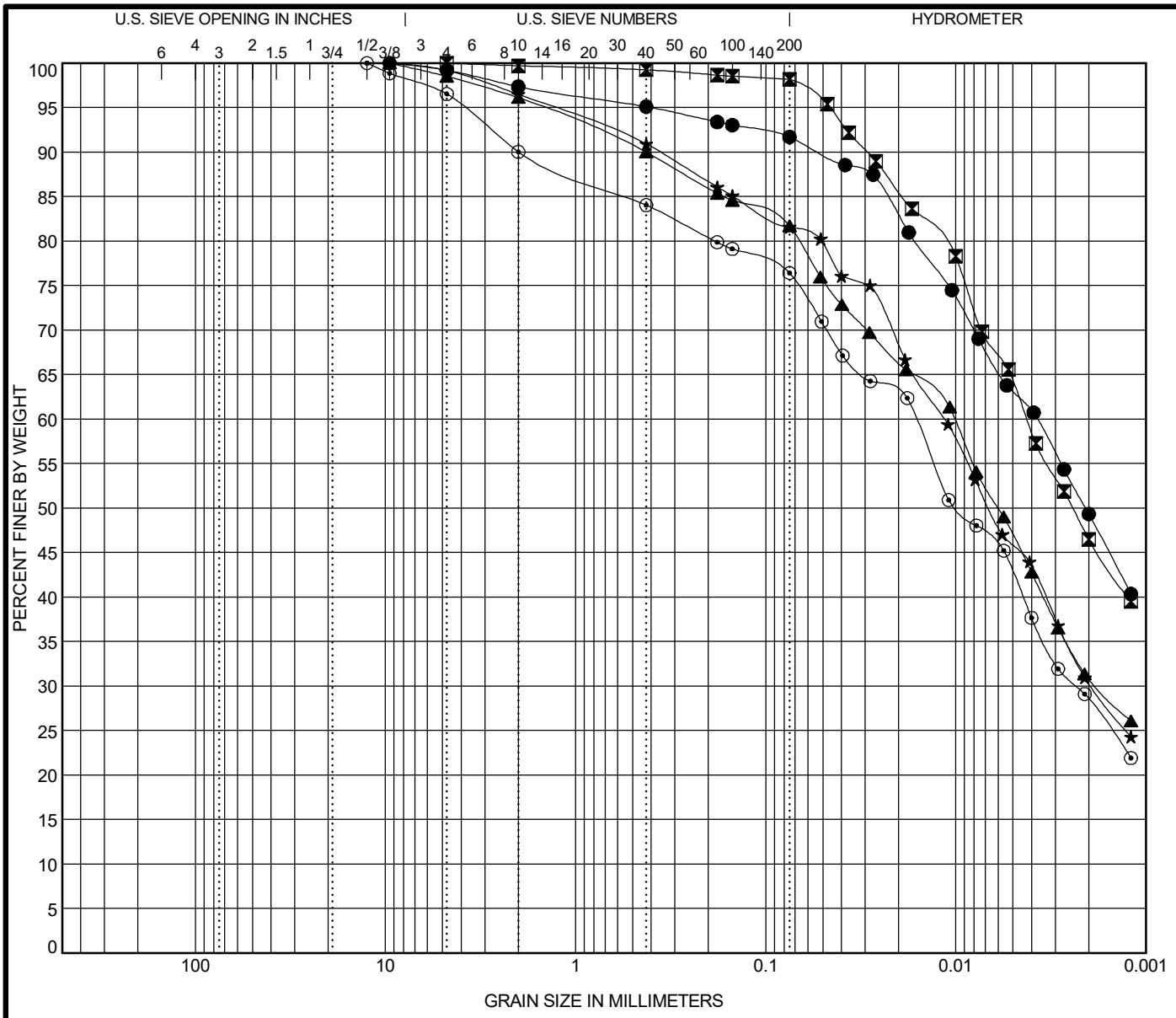

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification	LL	PL	PI	Cc	Cu
●	24-RWB-03#17	53.5 ft	**Clay**	**42**	**18**	**24**		
⊠	27-RWB-02#18	58.5 ft	**Silty Clay**	**41**	**19**	**22**		
▲	27-RWB-03#10	23.5 ft	**Silty Clay**	**34**	**16**	**18**		
★	28-RWB-01#15	43.5 ft	**Silty Clay**	**30**	**16**	**14**		
⊙	29-RWB-01#13	33.5 ft	**Silty Clay**	**34**	**17**	**17**		

Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	24-RWB-03#17	53.5 ft	**9.5**	**0.004**			**2.6**	**5.7**	**42.3**	**49.3**
⊠	27-RWB-02#18	58.5 ft	**4.75**	**0.004**			**0.3**	**1.6**	**51.6**	**46.5**
▲	27-RWB-03#10	23.5 ft	**9.5**	**0.01**	**0.002**		**3.9**	**14.6**	**50.6**	**30.9**
★	28-RWB-01#15	43.5 ft	**9.5**	**0.011**	**0.002**		**3.5**	**15.0**	**51.2**	**30.4**
⊙	29-RWB-01#13	33.5 ft	**12.5**	**0.016**	**0.002**		**10.0**	**13.8**	**47.8**	**28.5**

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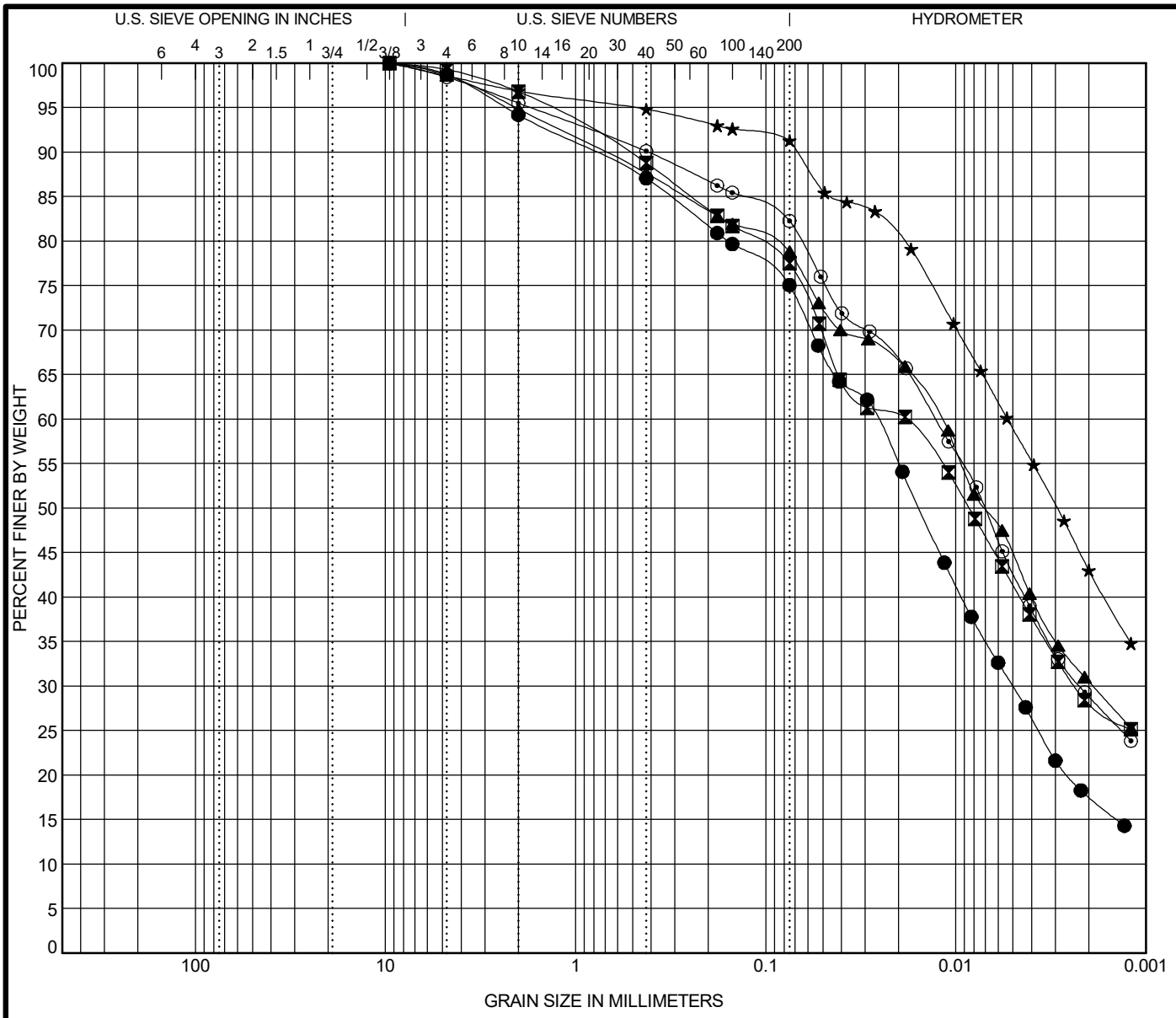

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	29-RWB-01#18	58.5 ft	**Silty Loam**	**24**	**14**	**10**		
⊠	30-RWB-03#1	13.5 ft	**Silty Clay Loam**	**32**	**17**	**15**		
▲	30-RWB-03#4	28.5 ft	**Silty Clay**	**34**	**17**	**17**		
★	31-RWB-01#17	53.5 ft	**Clay**	**39**	**18**	**21**		
⊙	31-RWB-03#12	28.5 ft	**Silty Clay**	**30**	**16**	**14**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	29-RWB-01#18	58.5 ft	**9.5**	**0.026**	**0.005**		**5.8**	**19.4**	**57.2**	**17.6**
⊠	30-RWB-03#1	13.5 ft	**9.5**	**0.018**	**0.002**		**3.2**	**19.5**	**49.2**	**28.1**
▲	30-RWB-03#4	28.5 ft	**9.5**	**0.012**	**0.002**		**5.1**	**16.3**	**48.1**	**30.5**
★	31-RWB-01#17	53.5 ft	**9.5**	**0.005**			**3.1**	**5.7**	**48.1**	**43.0**
⊙	31-RWB-03#12	28.5 ft	**9.5**	**0.013**	**0.002**		**4.5**	**13.5**	**53.2**	**28.8**

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Project: Jane Byrne Interchange

Location: Section 17, T39N, R14E of 3rd PM

Number: 1100-04-01

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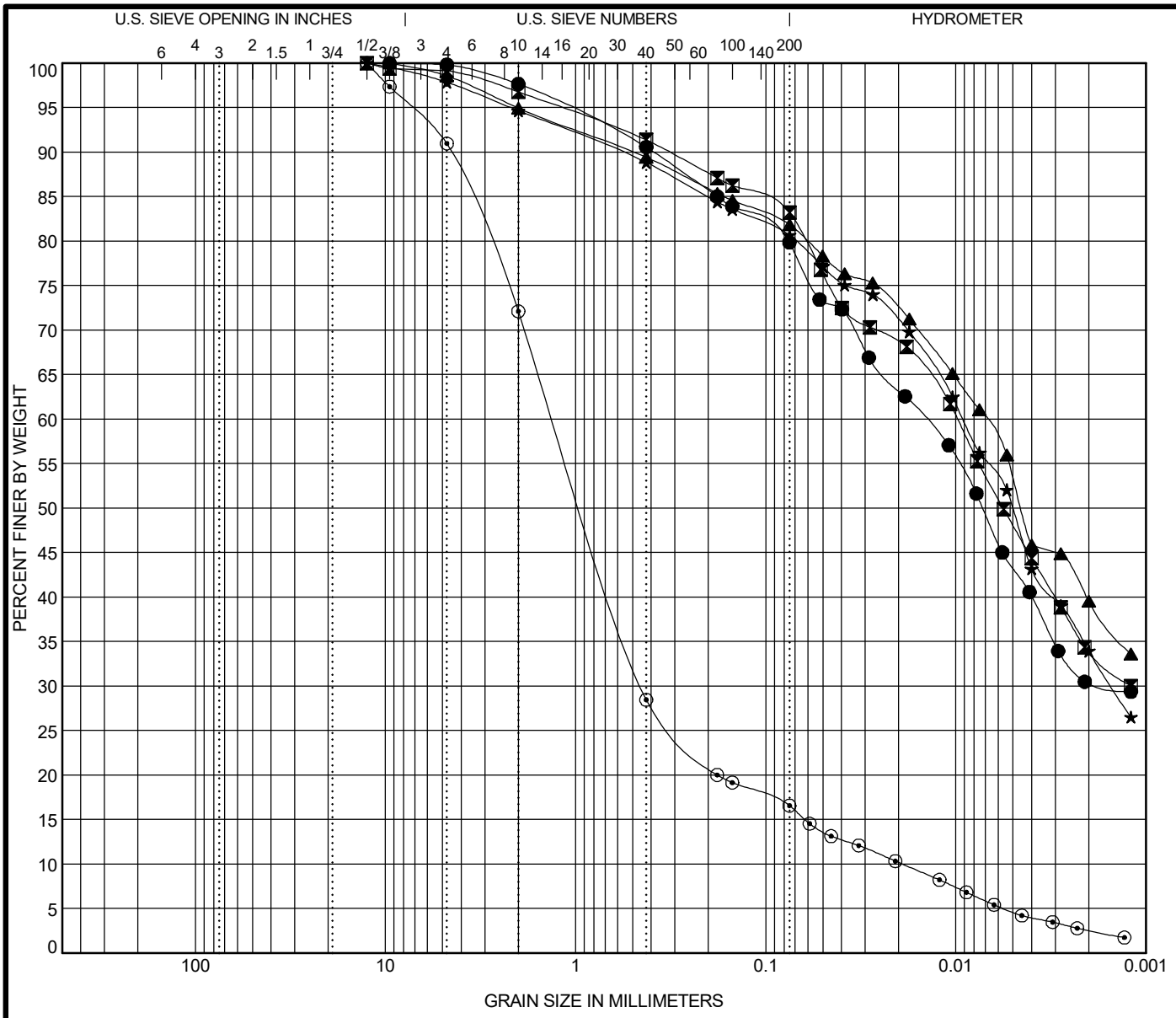

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● 32-RWB-03B#2	18.5 ft	**Silty Clay**	**32**	**15**	**17**		
⊠ 32-RWB-03B#5	33.5 ft	**Silty Clay**	**33**	**16**	**17**		
▲ 33-RWB-02#9	21.0 ft	**Clay**	**39**	**18**	**21**		
★ BFB-01#6	13.5 ft	**Clay**	**35**	**18**	**17**		
⊙ BFB-01#21	63.5 ft	**Gravelly Sandy Loam**	**NP**	**NP**	**NP**	**8.09**	**68.00**

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 32-RWB-03B#2	18.5 ft	**9.5**	**0.014**	**0.002**		**2.3**	**18.0**	**49.2**	**30.4**
⊠ 32-RWB-03B#5	33.5 ft	**12.5**	**0.01**			**3.2**	**13.8**	**49.0**	**34.0**
▲ 33-RWB-02#9	21.0 ft	**9.5**	**0.007**			**5.1**	**13.2**	**42.2**	**39.5**
★ BFB-01#6	13.5 ft	**12.5**	**0.009**	**0.002**		**5.3**	**14.1**	**46.6**	**33.9**
⊙ BFB-01#21	63.5 ft	**12.5**	**1.301**	**0.449**	**0.019**	**27.9**	**55.7**	**13.9**	**2.5**

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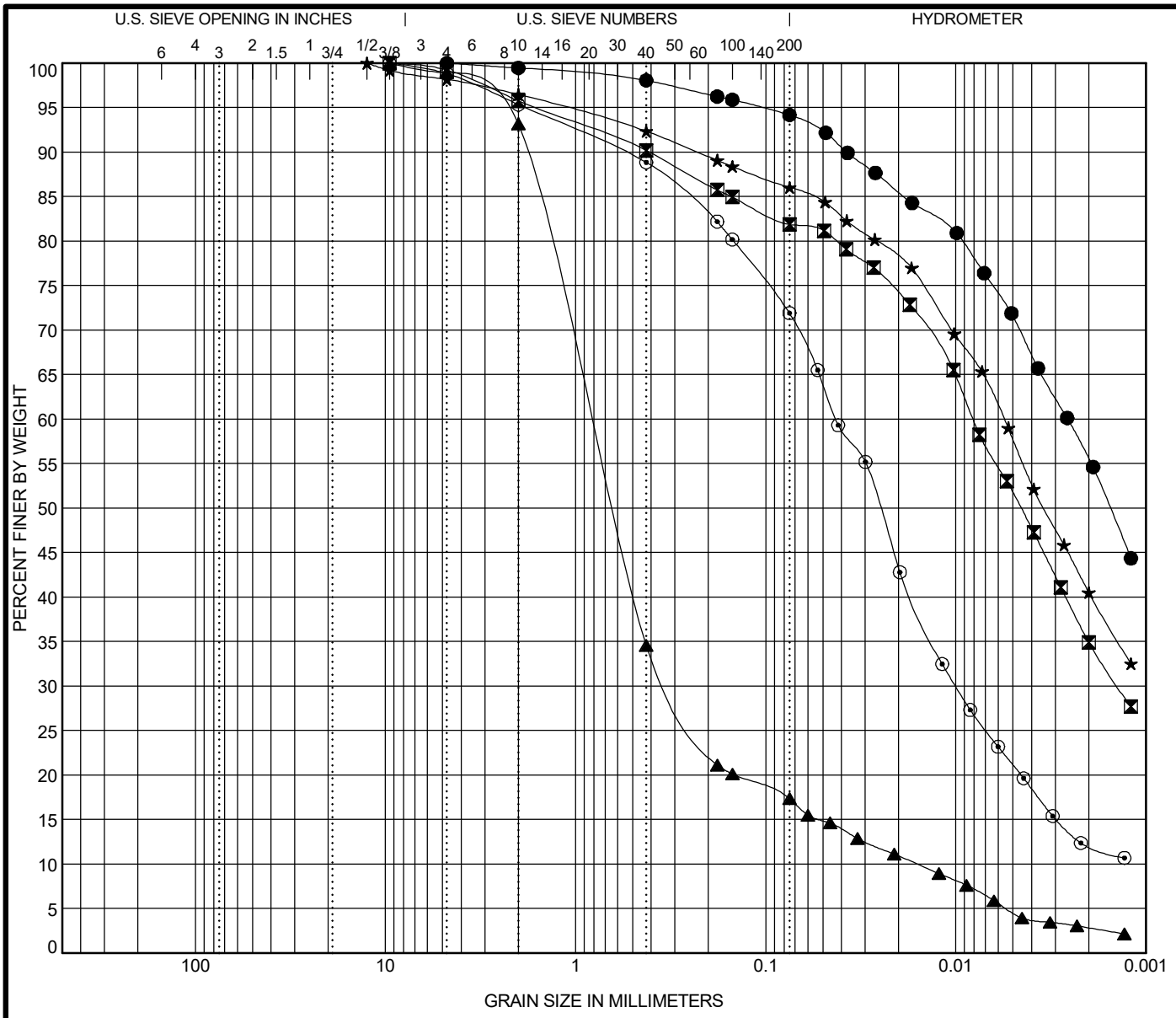

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● BFB-02#2	3.5 ft	**Clay**	**44**	**20**	**24**		
⊠ BFB-02#9	21.0 ft	**Clay**	**35**	**18**	**17**		
▲ BFB-02#21	63.5 ft	**Sand**	**NP**	**NP**	**NP**	**7.55**	**52.02**
★ BFB-03#13	31.0 ft	**Clay**	**37**	**19**	**18**		
⊙ BFB-03#16	38.5 ft	**Silty Loam**	**NP**	**NP**	**NP**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BFB-02#2	3.5 ft	**4.75**	**0.003**			**0.5**	**5.3**	**38.6**	**55.5**
⊠ BFB-02#9	21.0 ft	**9.5**	**0.008**	**0.001**		**4.2**	**13.9**	**46.9**	**34.9**
▲ BFB-02#21	63.5 ft	**9.5**	**0.832**	**0.317**	**0.016**	**6.8**	**75.9**	**14.4**	**2.8**
★ BFB-03#13	31.0 ft	**12.5**	**0.006**			**3.5**	**10.5**	**45.5**	**40.5**
⊙ BFB-03#16	38.5 ft	**9.5**	**0.043**	**0.01**		**4.7**	**23.7**	**59.6**	**12.1**

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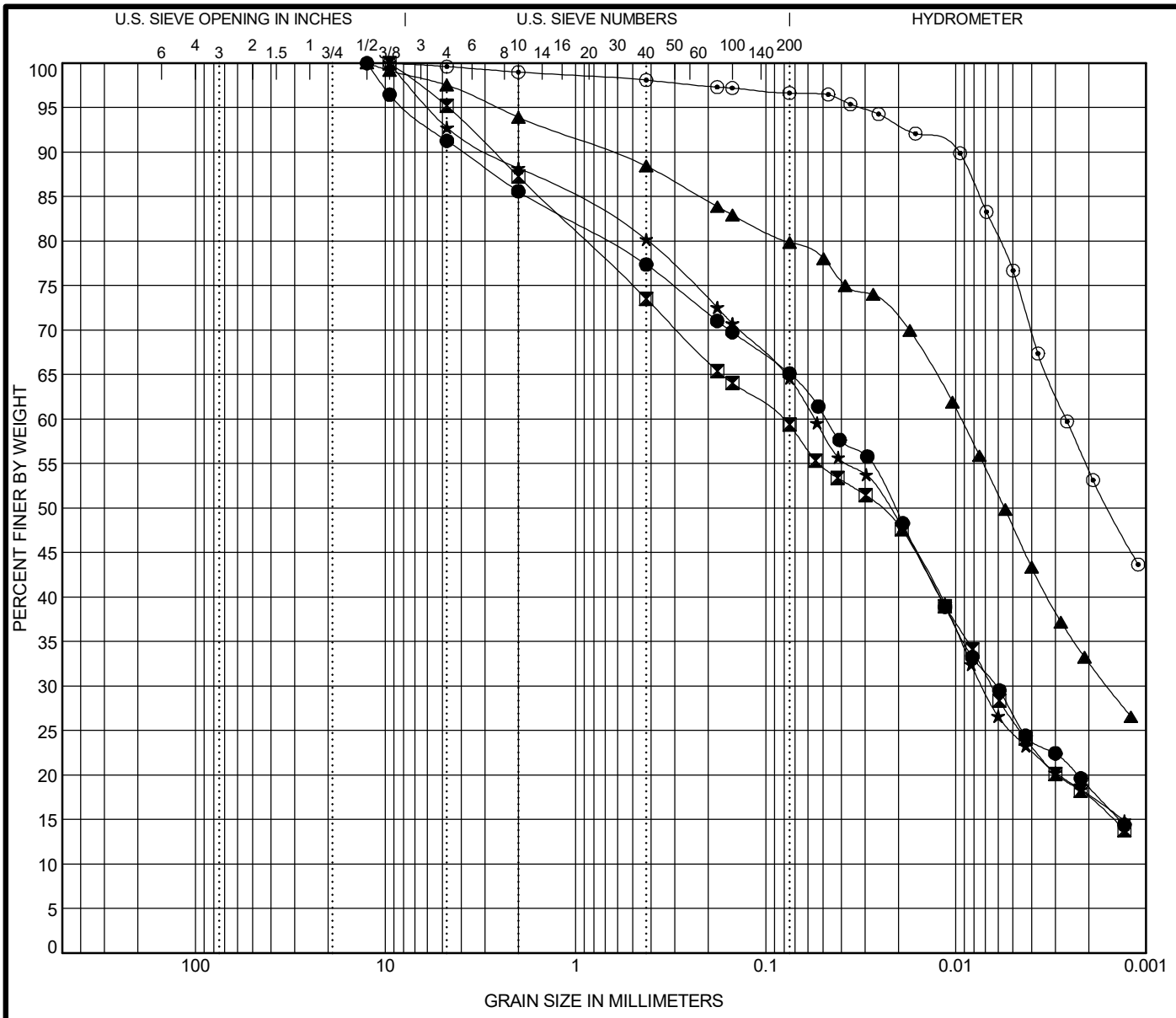

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● BFB-03#23	73.5 ft	**Silty Clay Loam**	**22**	**13**	**9**		
⊠ BFB-04#2	3.5 ft	**Clay Loam**	**25**	**17**	**8**		
▲ BFB-04#9	21.0 ft	**Silty Clay**	**34**	**17**	**17**		
★ BFB-04#17	43.5 ft	**Silty Clay Loam**	**23**	**15**	**8**		
⊙ BFB-04#24	78.5 ft	**Clay**	**42**	**20**	**22**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BFB-03#23	73.5 ft	**12.5**	**0.048**	**0.006**		**14.4**	**20.6**	**46.3**	**18.7**
⊠ BFB-04#2	3.5 ft	**9.5**	**0.082**	**0.006**		**12.7**	**28.1**	**41.7**	**17.5**
▲ BFB-04#9	21.0 ft	**12.5**	**0.009**	**0.002**		**6.1**	**14.1**	**47.2**	**32.6**
★ BFB-04#17	43.5 ft	**9.5**	**0.055**	**0.007**		**11.8**	**23.8**	**46.6**	**17.8**
⊙ BFB-04#24	78.5 ft	**9.5**	**0.003**			**1.0**	**2.4**	**42.4**	**54.2**

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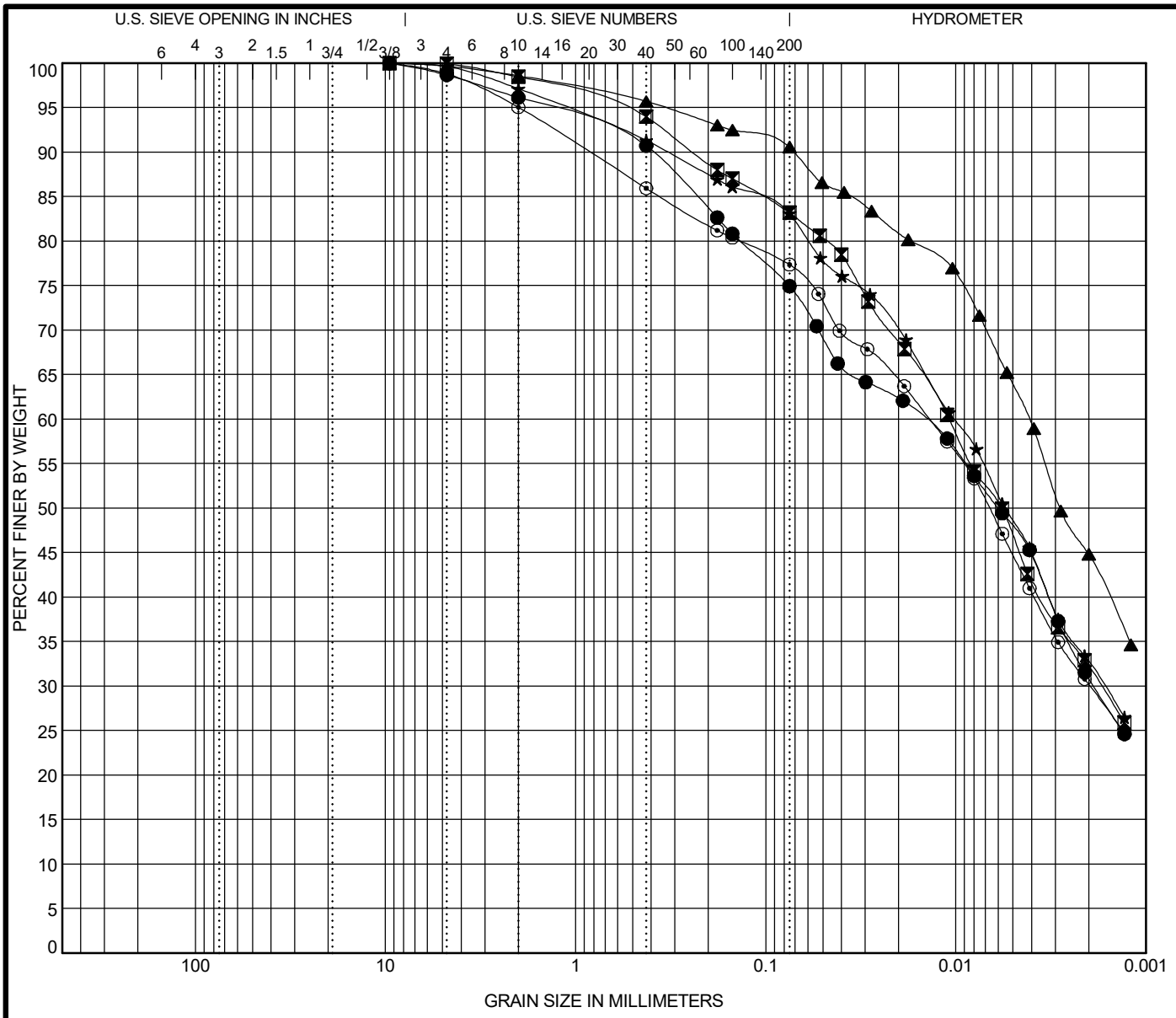

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● NB90-SGB-03#2	3.5 ft	**Clay**	**43**	**22**	**21**		
⊠ NB90-SGB-07#2	3.5 ft	**Silty Clay**	**32**	**16**	**16**		
▲ NB90-SGB-10#3	5.0 ft	**Clay**	**43**	**20**	**23**		
★ NB90-SGB-13#2	3.0 ft	**Silty Clay**	**35**	**18**	**17**		
⊙ NB90-SGB-16B#2	3.0 ft	**Clay**	**35**	**17**	**18**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● NB90-SGB-03#2	3.5 ft	**9.5**	**0.015**	**0.002**		**3.9**	**21.4**	**43.9**	**30.8**
⊠ NB90-SGB-07#2	3.5 ft	**9.5**	**0.011**	**0.002**		**1.5**	**15.4**	**50.9**	**32.2**
▲ NB90-SGB-10#3	5.0 ft	**9.5**	**0.004**			**1.4**	**8.1**	**45.6**	**44.8**
★ NB90-SGB-13#2	3.0 ft	**9.5**	**0.01**	**0.002**		**2.9**	**14.2**	**50.2**	**32.7**
⊙ NB90-SGB-16B#2	3.0 ft	**9.5**	**0.014**	**0.002**		**4.9**	**17.8**	**47.1**	**30.2**

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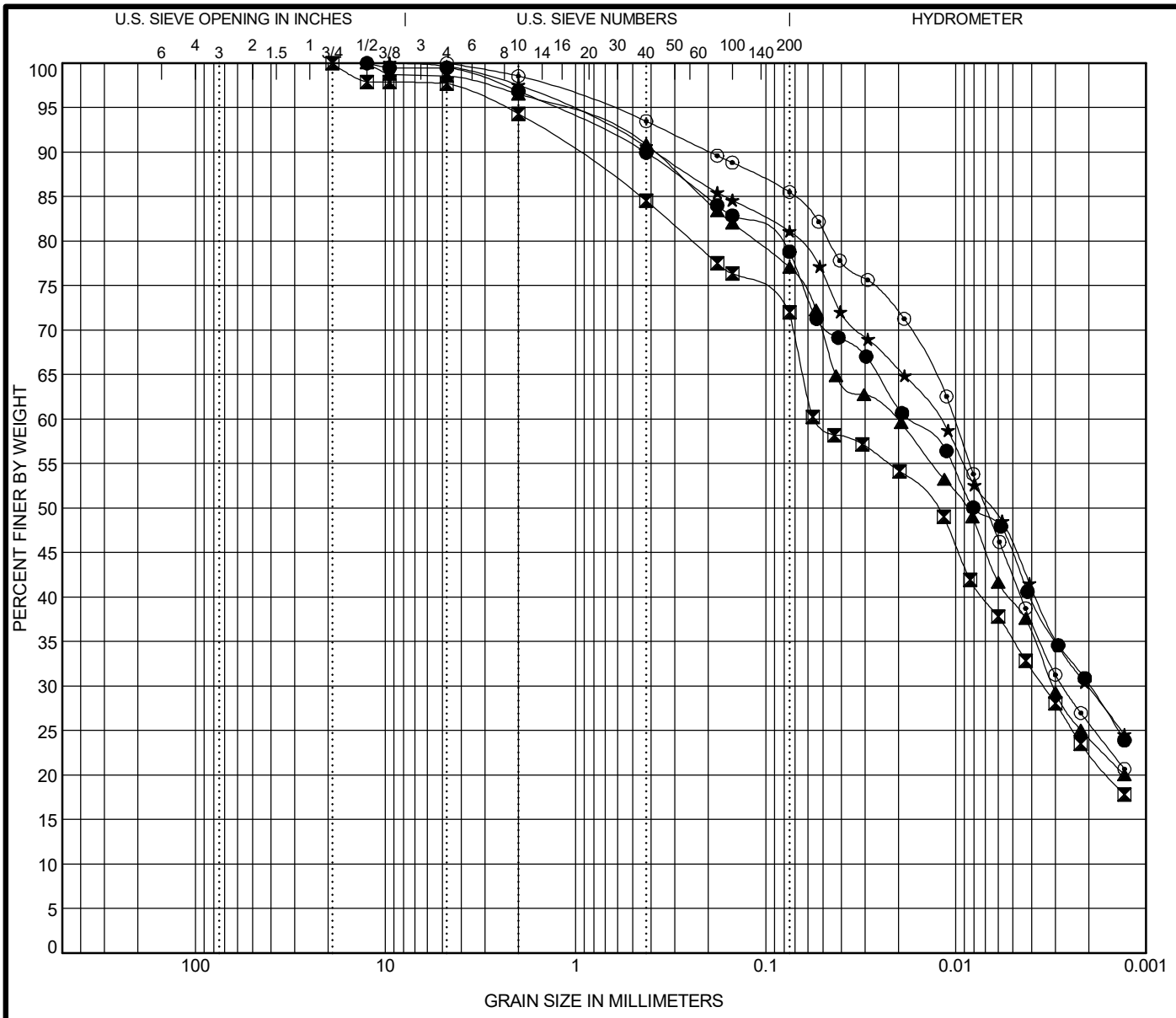

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	NB90-SGB-21#2	3.0 ft	**Clay**	34	17	17		
⊠	NB90-SGB-23#2	3.0 ft	**Silty Clay Loam**	32	17	15		
▲	SB90-SGB-02#2	3.0 ft	**Silty Clay Loam**	29	15	14		
★	SB90-SGB-06#2	3.5 ft	**Silty Clay**	32	17	15		
⊙	SB90-SGB-10#2	3.0 ft	**Silty Clay Loam**	31	17	14		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	NB90-SGB-21#2	3.0 ft	12.5	0.018	0.002		3.1	18.4	48.3	30.2
⊠	NB90-SGB-23#2	3.0 ft	19	0.055	0.003		5.7	22.9	49.0	22.5
▲	SB90-SGB-02#2	3.0 ft	12.5	0.021	0.003		3.5	19.7	52.7	24.1
★	SB90-SGB-06#2	3.5 ft	9.5	0.012	0.002		2.5	16.6	51.2	29.8
⊙	SB90-SGB-10#2	3.0 ft	4.75	0.01	0.003		1.5	13.1	59.6	25.8

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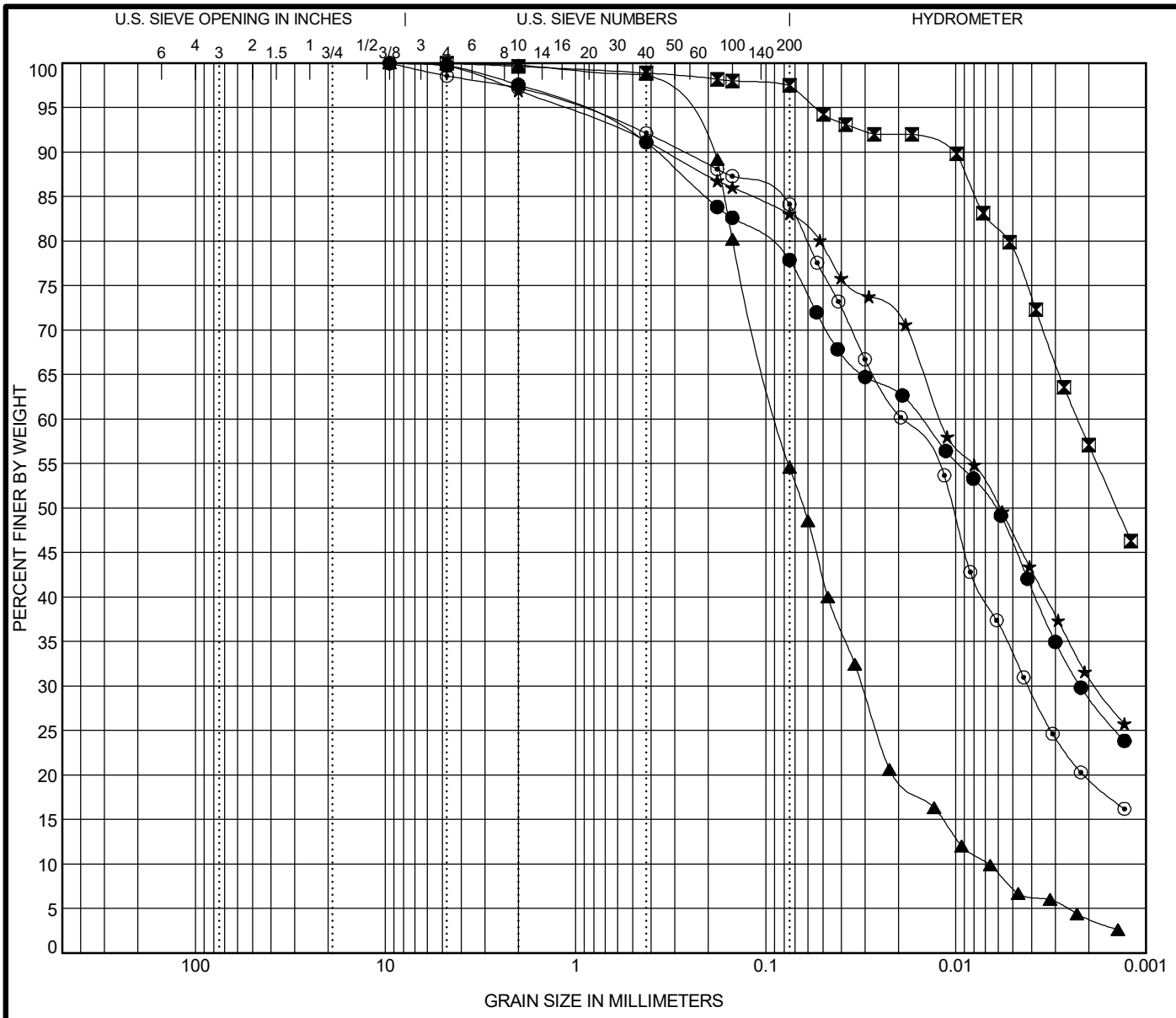

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
● SB90-SGB-15#2	3.0 ft	**Silty Clay Loam**	**30**	**16**	**14**		
⊠ SB90-SGB-18#3	5.0 ft	**Clay**	**53**	**23**	**30**		
▲ SB90-SGB-20#	3.0 ft	**Silty Loam**	**NP**	**NP**	**NP**	**1.66**	**12.90**
★ SB90-SGB-22#1	1.0 ft	**Silty Clay**	**33**	**18**	**15**		
⊙ SB90-SGB-24#2	3.5 ft	**Silty Clay Loam**	**28**	**16**	**12**		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SB90-SGB-15#2	3.0 ft	**9.5**	**0.015**	**0.002**		**2.4**	**19.9**	**48.9**	**28.7**
⊠ SB90-SGB-18#3	5.0 ft	**4.75**	**0.002**			**0.4**	**2.2**	**40.3**	**57.1**
▲ SB90-SGB-20#	3.0 ft	**9.5**	**0.087**	**0.031**	**0.007**	**0.2**	**45.6**	**50.3**	**3.9**
★ SB90-SGB-22#1	1.0 ft	**9.5**	**0.012**	**0.002**		**3.1**	**14.0**	**51.9**	**31.0**
⊙ SB90-SGB-24#2	3.5 ft	**9.5**	**0.019**	**0.004**		**2.8**	**13.3**	**64.3**	**19.6**

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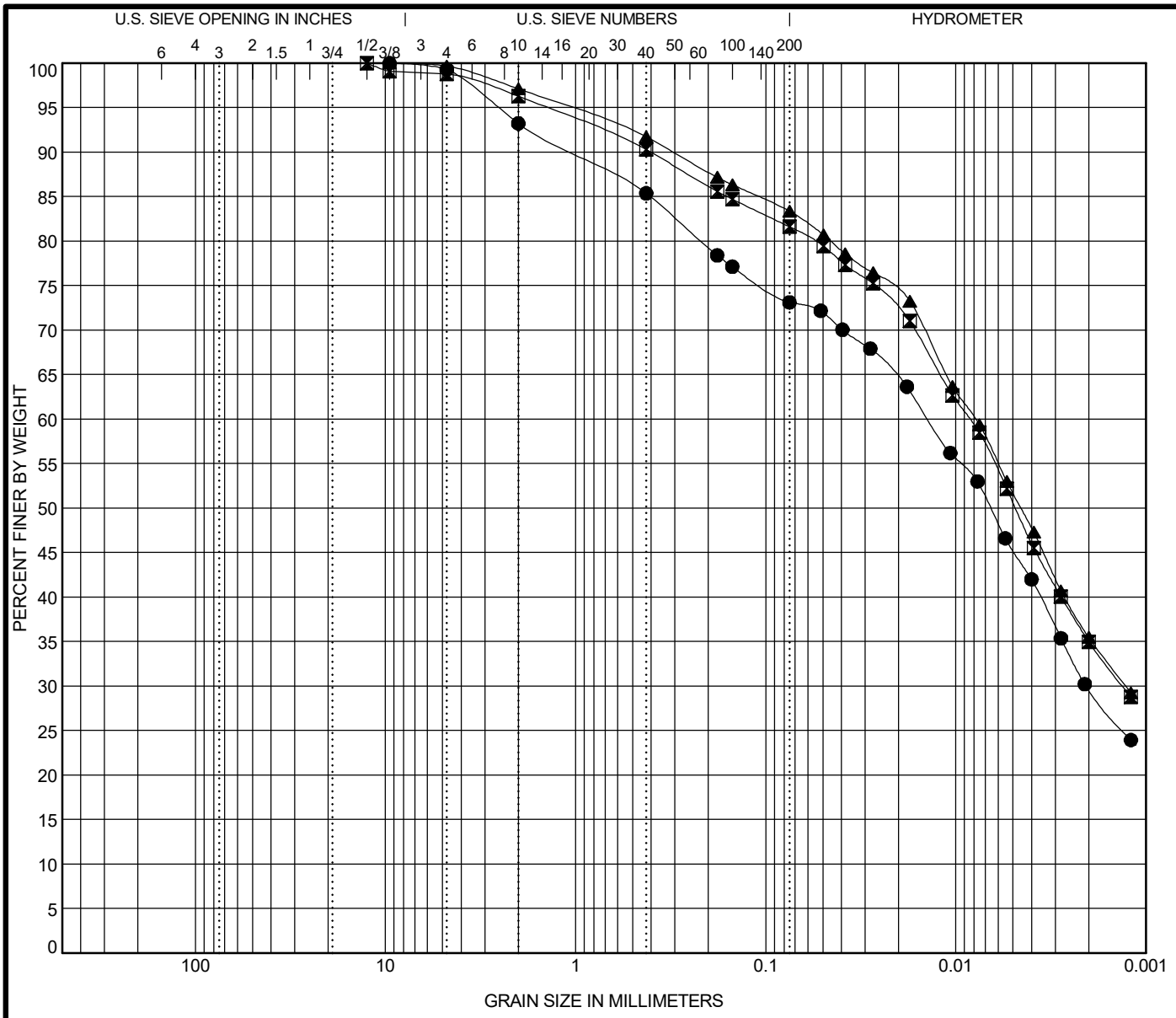

COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

	Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	Z051-RWB-04#7	15.0 ft	**Clay**	**32**	**17**	**15**		
⊠	Z051-RWB-04#11	25.0 ft	**Clay**	**33**	**17**	**16**		
▲	Z051-RWB-04#15	35.0 ft	**Clay**	**33**	**17**	**16**		

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	Z051-RWB-04#7	15.0 ft	**9.5**	**0.014**	**0.002**		**6.8**	**20.1**	**43.4**	**29.7**
⊠	Z051-RWB-04#11	25.0 ft	**12.5**	**0.008**	**0.001**		**3.7**	**14.7**	**46.6**	**35.0**
▲	Z051-RWB-04#15	35.0 ft	**9.5**	**0.008**	**0.001**		**2.9**	**13.8**	**47.8**	**35.5**

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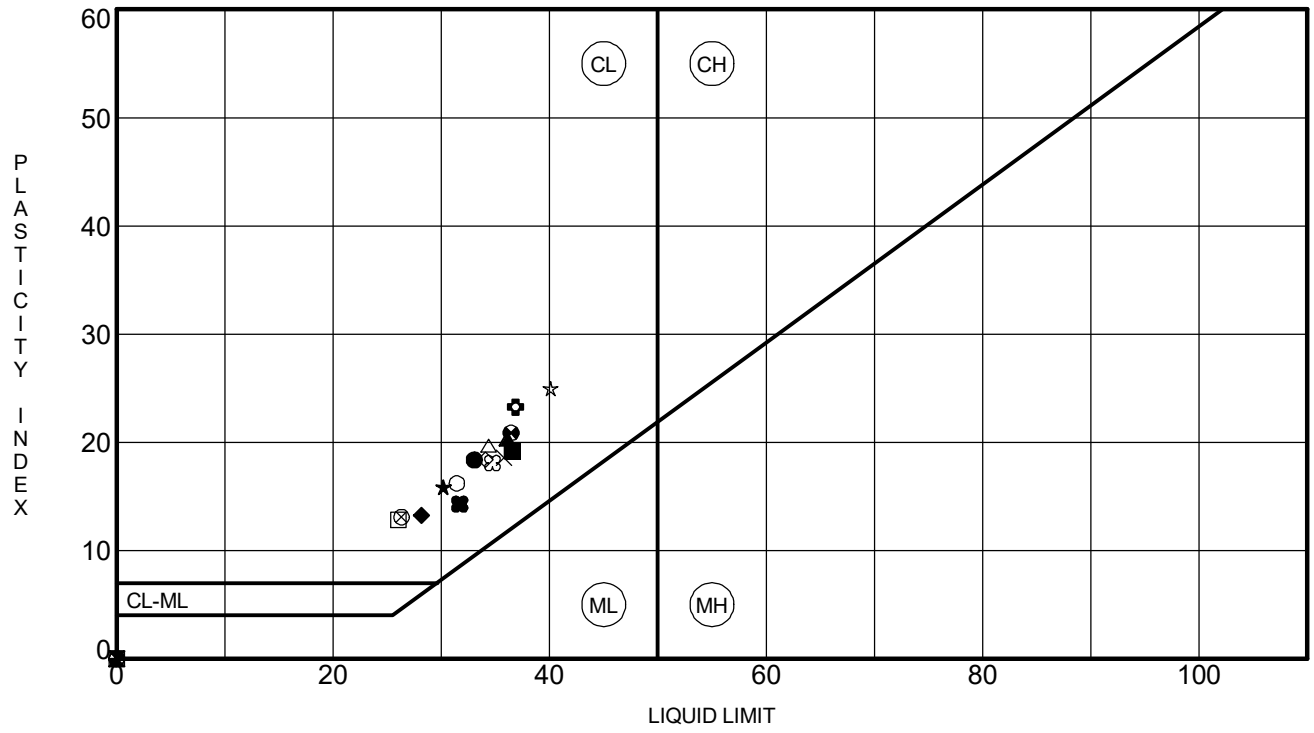

	Specimen Identification		LL	PL	PI	Fines	IDH Classification
●	02-RWB-01#5	11.0 ft	33	15	18	78	Silty Clay Loam
⊠	02-RWB-01#18	58.5 ft	NP	NP	NP	69	Silty Loam
▲	02-RWB-02#8	18.5 ft	36	16	20	81	Silty Clay
★	02-RWB-03#3	6.0 ft	30	14	16	71	Silty Clay Loam
⊙	02-RWB-03#15	43.5 ft	NP	NP	NP	85	Silt
✿	02-RWB-03#19	63.5 ft	37	14	23	88	Silty Clay
○	02-RWB-04#17	53.5 ft	31	15	16	91	Silty Clay
△	02-RWB-05#4	8.5 ft	34	15	19	78	Silty Clay
⊗	02-RWB-05#16	48.5 ft	26	13	13	69	Silty Loam
⊕	02-RWB-05#19	63.5 ft	NP	NP	NP	24	Sandy Loam
□	02-RWB-06#3	6.0 ft	26	13	13	73	Silty Clay Loam
❽	02-RWB-06#11	26.0 ft	36	16	20	81	Silty Clay
◕	02-RWB-06#19	63.5 ft	NP	NP	NP	20	Gravelly Sandy Loam
☆	02-RWB-06#23	83.5 ft	40	15	25	89	Silty Clay
⊠	02-ST-06#2	18.0 ft	35	17	18	81	Silty Clay Loam
■	02-ST-06#3	33.0 ft	37	17	20	82	Clay
◆	0589-B-01#8	58.5 ft	28	15	13	79	Silty Clay Loam
◇	0589-B-03#12	28.5 ft	34	16	18	79	Silty Clay
╳	08-RWB-01#8	18.5 ft	36	17	19	80	Silty Clay
❽	08-RWB-02#11	38.5 ft	32	17	15	76	Gravelly Silty Clay Loam

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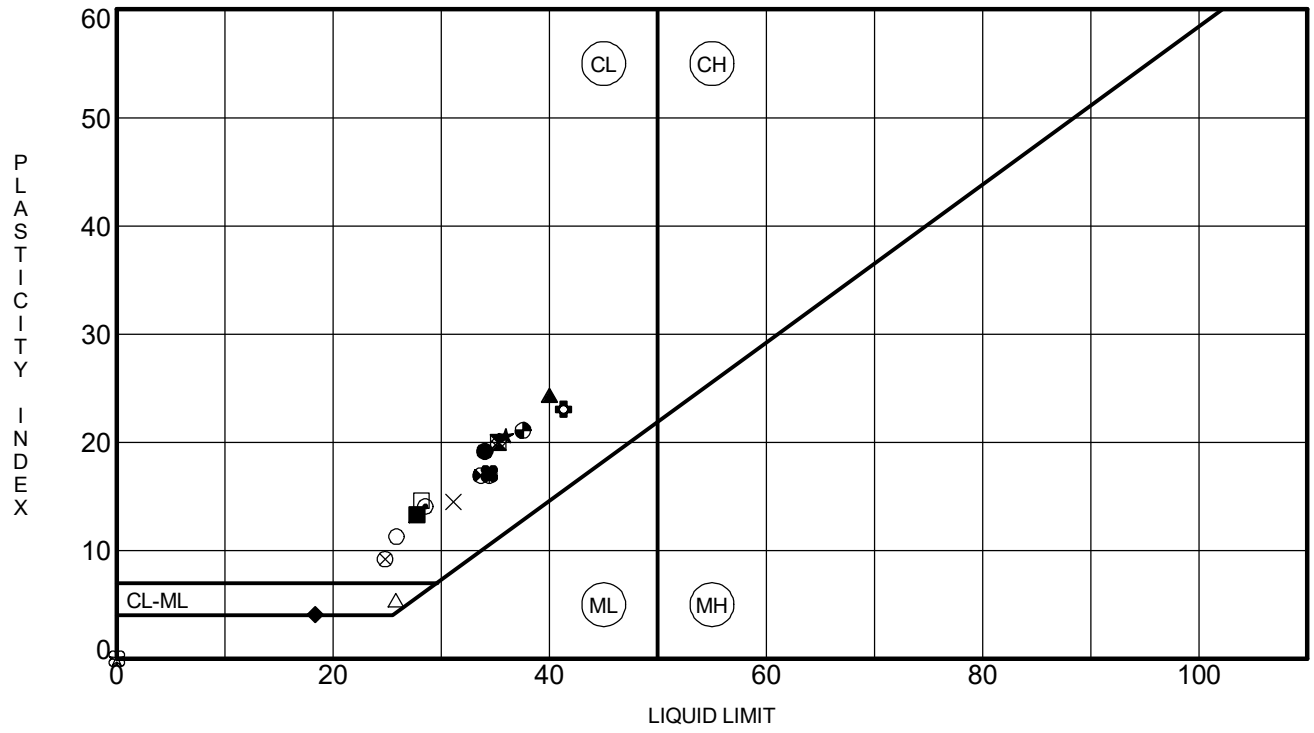
ATTERBERG LIMITS' RESULTS

Project: Jane Byrne Interchange

Location: Section 17, T39N, R14E of 3rd PM

Number: 1100-04-01

WEI ATTERBERG LIMITS IDH 11000401.GPJ US LAB.GDT 7/25/19



Specimen Identification			LL	PL	PI	Fines	IDH Classification
●	1088-B-02#11	26.0 ft	34	15	19	83	Silty Clay
⊠	1165-B-01B#13	33.5 ft	35	15	20	77	Clay
▲	1165-B-01B#19	63.5 ft	40	16	24	93	Clay
★	1165-B-02#6	13.5 ft	36	15	21	82	Silty Clay
⊙	1165-B-02#18	58.5 ft	29	14	15	70	Silty Clay Loam
✿	14-RWB-02#14	38.5 ft	41	18	23	94	Clay
○	14-RWB-03#16	48.5 ft	26	15	11	70	Clay Loam
△	16-RWB-01B#15	43.5 ft	26	20	6	95	Silty Loam
⊗	16-RWB-02#15	43.5 ft	25	16	9	71	Silty Clay Loam
⊕	16-RWB-04B#10	23.5 ft	34	18	16	83	Clay
□	1702-B-01#9	21.0 ft	28	14	14	72	Clay Loam
⊛	1702-B-03#9	63.5 ft	34	17	17	83	Silty Clay
◕	1705-B-02#13	33.5 ft	38	16	22	87	Silty Clay
☆	1705-B-02#19	63.5 ft	NP	NP	NP	22	Gravelly Sandy Loam
⊠	1705-B-02#22	78.5 ft	NP	NP	NP	17	Sand
■	1705-B-03#16	48.5 ft	28	14	14	91	Silty Loam
◆	1705-B-04#21	73.5 ft	18	14	4	62	Silty Loam
◇	1705-B-05#7	16.0 ft	35	15	20	77	Silty Clay Loam
╳	1705-B-05A#1	10.0 ft	31	17	14	77	Silty Clay Loam
⊠	1705-B-05A#2	16.0 ft	34	17	17	82	Silty Clay

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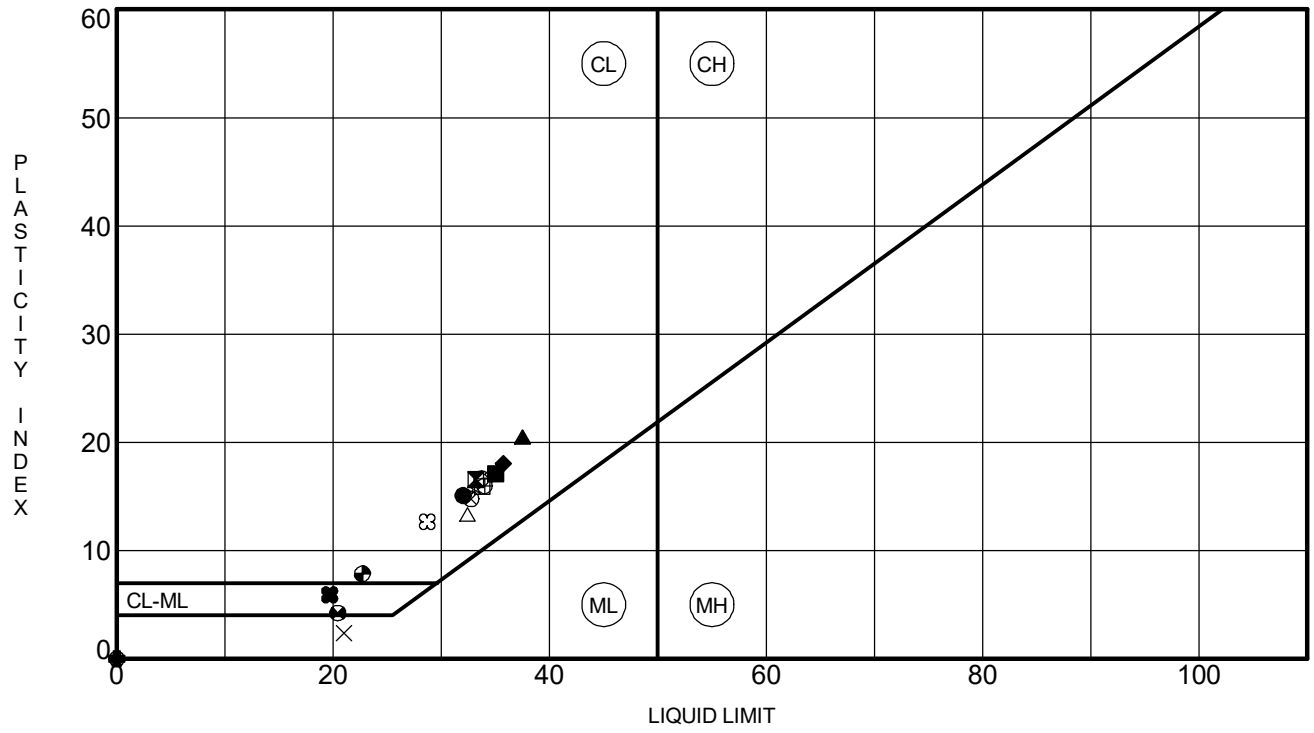
ATTERBERG LIMITS' RESULTS

Project: Jane Byrne Interchange

Location: Section 17, T39N, R14E of 3rd PM

Number: 1100-04-01

WEI ATTERBERG LIMITS IDH 11000401.GPJ US LAB.GDT 7/25/19



	Specimen Identification		LL	PL	PI	Fines	IDH Classification
●	1705-B-05A#	16.5 ft	32	17	15	83	Silty Clay
⊠	1705-B-05A#3	25.0 ft	33	17	16	83	Silty Clay
▲	1705-B-07#12	28.5 ft	38	17	21	85	Silty Clay
★	1705-B-07#23	83.5 ft	NP	NP	NP	96	Silt
⊙	1705-B-08#22	78.5 ft	NP	NP	NP	99	Silt
✿	1706-B-01#23	83.5 ft	NP	NP	NP	54	Gravelly Silty Loam
○	1706-B-02#8	18.5 ft	34	17	17	80	Silty Clay
△	1710-B-03#2	3.5 ft	32	19	13	82	Silty Clay Loam
⊗	1710-B-03#6	13.5 ft	33	18	15	80	Silty Clay Loam
⊕	1710-B-03#13	33.5 ft	34	18	16	80	Silty Clay
□	1710-B-03#16	48.5 ft	34	18	16	83	Clay
⊛	1710-B-03#20	68.5 ft	20	16	4	83	Silty Loam
◕	1710-B-03#23	83.5 ft	23	15	8	78	Silty Loam
☆	1710-B-04#5	11.0 ft	33	17	16	79	Clay
⊠	1710-B-04#9	21.0 ft	29	16	13	84	Silty Clay Loam
■	1710-B-04#15	43.5 ft	35	18	17	85	Clay
◆	1710-B-04#17	53.5 ft	36	18	18	91	Silty Clay
◇	1710-B-04#18	58.5 ft	35	18	17	83	Clay
×	1710-B-04#20	68.5 ft	21	19	2	88	Silt
✖	1710-B-04#23	83.5 ft	20	14	6	71	Silty Loam

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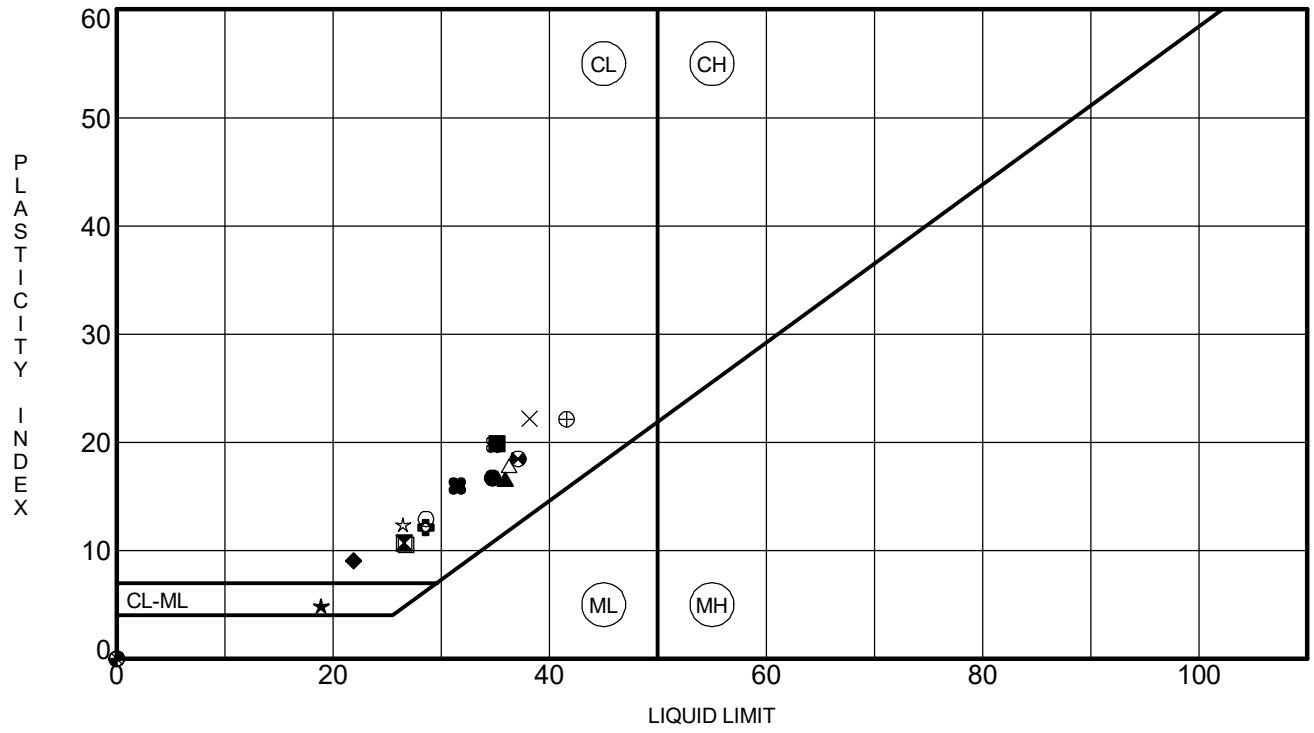

Specimen Identification			LL	PL	PI	Fines	IDH Classification
●	1712-B-02#9	21.0 ft	35	18	17	83	Silty Clay
⊠	1712-B-02#15	43.5 ft	27	16	11	66	Silty Loam
▲	1712-B-02#17	53.5 ft	36	19	17	98	Clay
★	1712-B-02#20	68.5 ft	19	14	5	72	Silty Loam
⊙	1712-B-02#23	83.5 ft	NP	NP	NP	99	Silt
✿	1715-B-01#21	73.5 ft	29	16	13	88	Silty Clay Loam
○	1715-B-01#24	88.5 ft	29	16	13	85	Silty Clay Loam
△	1715-B-03#16	48.5 ft	36	18	18	97	Silty Clay
⊗	1715-B-03#23	83.5 ft	NP	NP	NP	99	Silt
⊕	2054-B-01#6	13.5 ft	42	19	23	90	Clay
□	2054-B-02#15	43.5 ft	27	16	11	75	Silty Clay Loam
❁	2054-B-03#13	33.5 ft	37	19	18	84	Clay
◕	2054-B-03#23	83.5 ft	NP	NP	NP	73	Silty Loam
☆	2055-B-02#23	83.5 ft	26	14	12	72	Silty Clay Loam
⊠	2055-B-04#7	16.0 ft	35	15	20	81	Silty Clay
■	2055-B-04#14	38.5 ft	35	15	20	87	Silty Clay
◆	2055-B-04#15	43.5 ft	22	13	9	53	Gravelly Loam
◇	2055-B-05#6	13.5 ft	35	15	20	81	Clay
×	2055-B-05#14	38.5 ft	38	16	22	89	Clay
✖	20-RWB-01#7	16.0 ft	31	16	15	79	Silty Clay Loam

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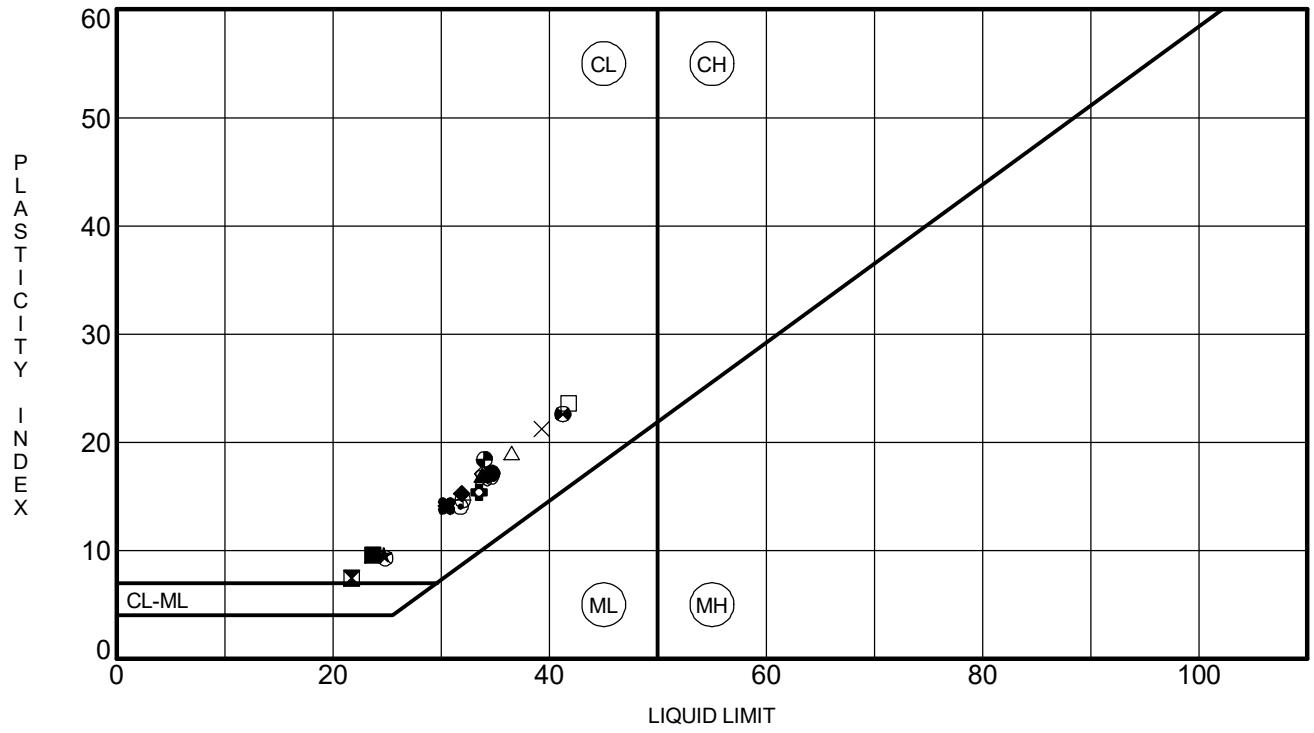

Specimen Identification			LL	PL	PI	Fines	IDH Classification
●	20-RWB-01#16	48.5 ft	35	18	17	93	Silty Clay
⊠	21-RWB-02#24	89.0 ft	22	14	8	77	Silty Loam
▲	21-RWB-04#10	23.5 ft	34	17	17	77	Silty Clay
★	21-RWB-05#18	58.5 ft	25	15	10	68	Silty Loam
⊙	22-RWB-03#6	13.5 ft	32	18	14	83	Silty Clay Loam
✿	22-RWB-03#13	33.5 ft	33	18	15	82	Silty Clay
○	22-RWB-03#18	58.5 ft	35	18	17	88	Silty Clay
△	23-RWB-03#12	28.5 ft	36	17	19	83	Clay
⊗	23-RWB-03#15	43.5 ft	25	16	9	68	Silty Clay Loam
⊕	24-RWB-03#8	18.5 ft	32	17	15	83	Silty Clay
□	24-RWB-03#17	53.5 ft	42	18	24	92	Clay
⊛	27-RWB-02#18	58.5 ft	41	19	22	98	Silty Clay
◕	27-RWB-03#10	23.5 ft	34	16	18	82	Silty Clay
☆	28-RWB-01#15	43.5 ft	30	16	14	82	Silty Clay
⊠	29-RWB-01#13	33.5 ft	34	17	17	76	Silty Clay
■	29-RWB-01#18	58.5 ft	24	14	10	75	Silty Loam
◆	30-RWB-03#1	13.5 ft	32	17	15	78	Silty Clay Loam
◇	30-RWB-03#4	28.5 ft	34	17	17	79	Silty Clay
×	31-RWB-01#17	53.5 ft	39	18	21	91	Clay
⊠	31-RWB-03#12	28.5 ft	30	16	14	82	Silty Clay

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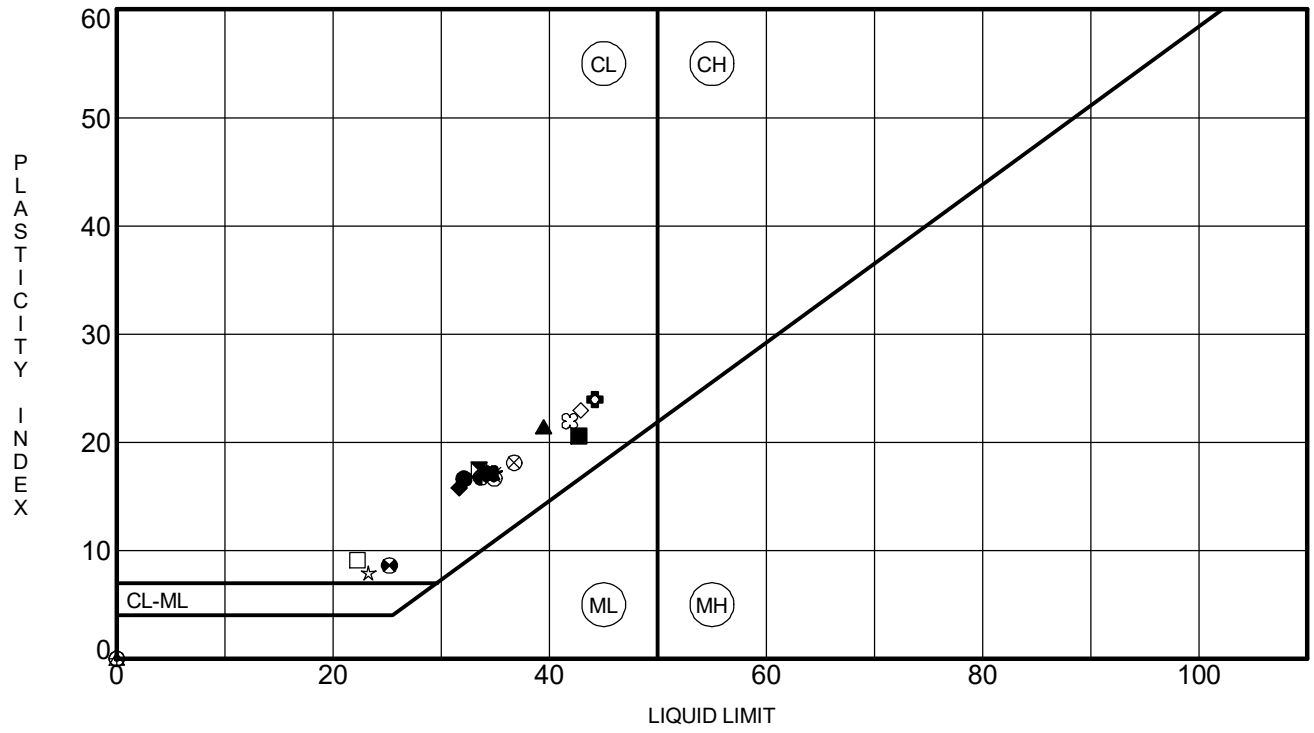

Specimen Identification			LL	PL	PI	Fines	IDH Classification
●	32-RWB-03B#2	18.5 ft	32	15	17	80	Silty Clay
⊠	32-RWB-03B#5	33.5 ft	33	16	17	83	Silty Clay
▲	33-RWB-02#9	21.0 ft	39	18	21	82	Clay
★	BFB-01#6	13.5 ft	35	18	17	81	Clay
⊙	BFB-01#21	63.5 ft	NP	NP	NP	17	Gravelly Sandy Loam
✿	BFB-02#2	3.5 ft	44	20	24	94	Clay
○	BFB-02#9	21.0 ft	35	18	17	82	Clay
△	BFB-02#21	63.5 ft	NP	NP	NP	17	Sand
⊗	BFB-03#13	31.0 ft	37	19	18	86	Clay
⊕	BFB-03#16	38.5 ft	NP	NP	NP	72	Silty Loam
□	BFB-03#23	73.5 ft	22	13	9	65	Silty Clay Loam
⊛	BFB-04#2	3.5 ft	25	17	8	59	Clay Loam
◕	BFB-04#9	21.0 ft	34	17	17	80	Silty Clay
☆	BFB-04#17	43.5 ft	23	15	8	65	Silty Clay Loam
⊠	BFB-04#24	78.5 ft	42	20	22	97	Clay
■	NB90-SGB-03#2	3.5 ft	43	22	21	75	Clay
◆	NB90-SGB-07#2	3.5 ft	32	16	16	83	Silty Clay
◇	NB90-SGB-10#3	5.0 ft	43	20	23	91	Clay
⊗	NB90-SGB-13#2	3.0 ft	35	18	17	83	Silty Clay
⊠	NB90-SGB-16B#2	3.0 ft	35	17	18	77	Clay

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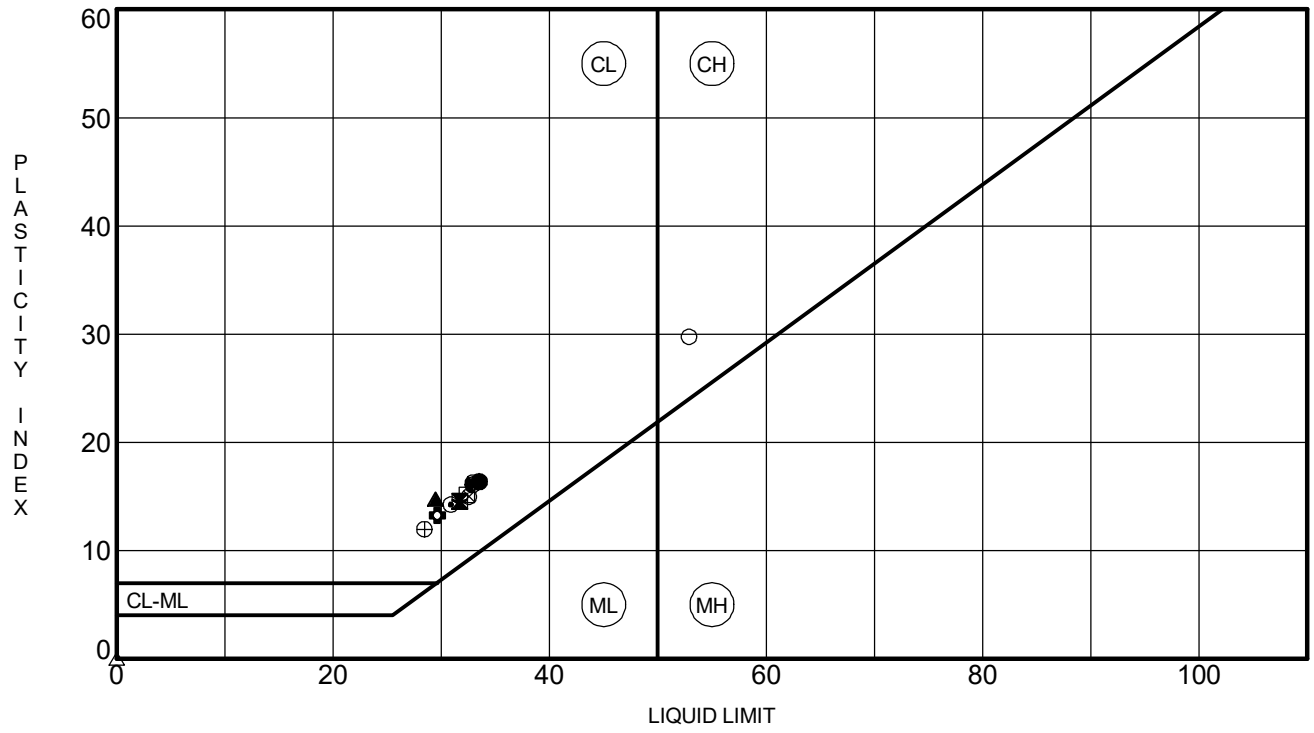

Specimen Identification			LL	PL	PI	Fines	IDH Classification
●	NB90-SGB-21#2	3.0 ft	34	17	17	79	Clay
⊠	NB90-SGB-23#2	3.0 ft	32	17	15	72	Silty Clay Loam
▲	SB90-SGB-02#2	3.0 ft	29	15	14	77	Silty Clay Loam
★	SB90-SGB-06#2	3.5 ft	32	17	15	81	Silty Clay
⊙	SB90-SGB-10#2	3.0 ft	31	17	14	86	Silty Clay Loam
✿	SB90-SGB-15#2	3.0 ft	30	16	14	78	Silty Clay Loam
○	SB90-SGB-18#3	5.0 ft	53	23	30	98	Clay
△	SB90-SGB-20#	3.0 ft	NP	NP	NP	55	Silty Loam
⊗	SB90-SGB-22#1	1.0 ft	33	18	15	83	Silty Clay
⊕	SB90-SGB-24#2	3.5 ft	28	16	12	84	Silty Clay Loam
□	Z051-RWB-04#7	15.0 ft	32	17	15	73	Clay
❽	Z051-RWB-04#11	25.0 ft	33	17	16	82	Clay
◕	Z051-RWB-04#15	35.0 ft	33	17	16	83	Clay

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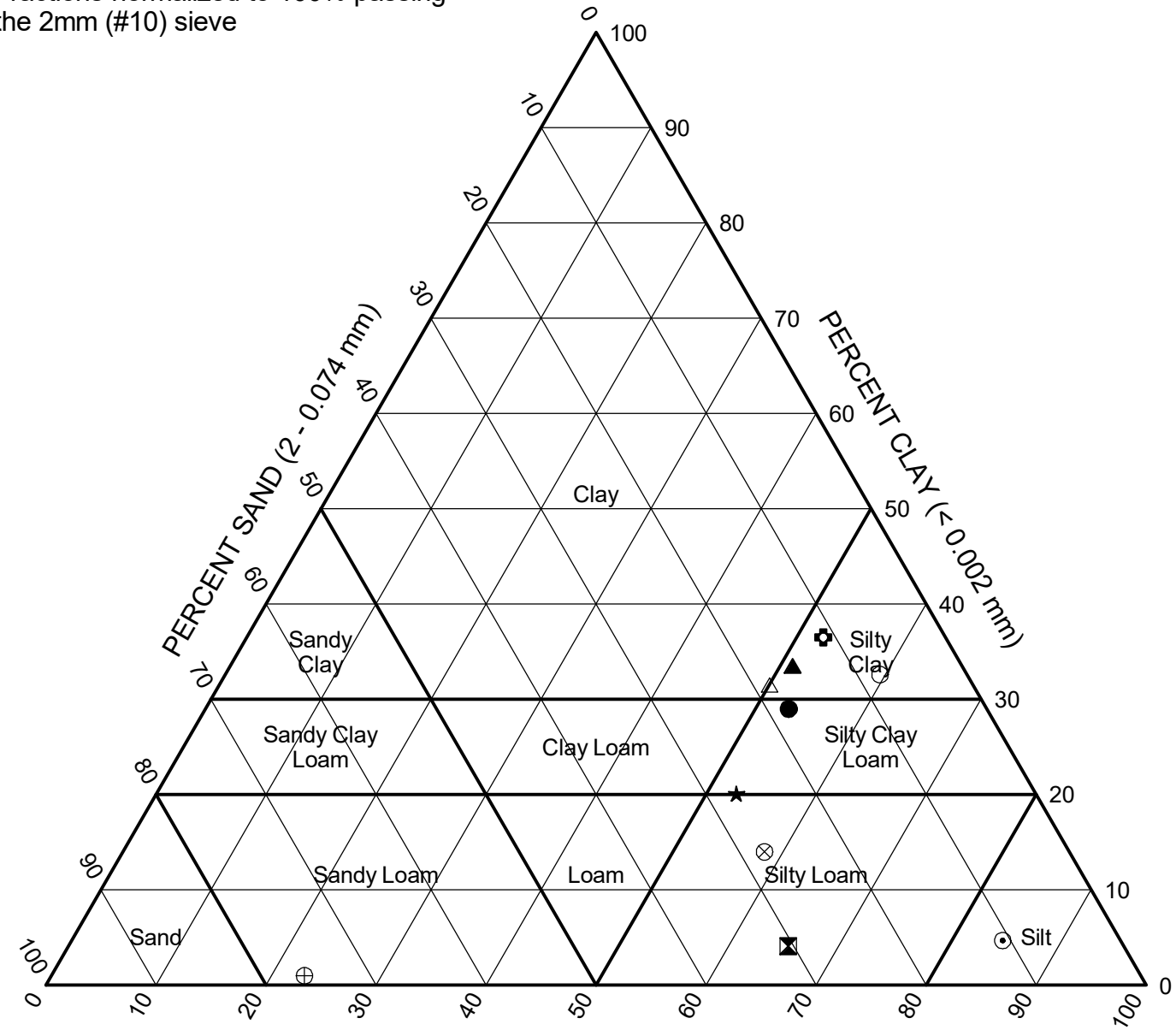
Fractions normalized to 100% passing the 2mm (#10) sieve



	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	02-RWB-01#5	11.0	18.0	53.0	29.0	Silty Clay Loam	A-6 (12)	CL
⊠	02-RWB-01#18	58.5	30.5	65.4	4.1	Silty Loam	A-4 (0)	ML
▲	02-RWB-02#8	18.5	15.4	51.1	33.5	Silty Clay	A-6 (15)	CL
★	02-RWB-03#3	6.0	27.1	52.7	20.1	Silty Clay Loam	A-6 (9)	CL
⊙	02-RWB-03#15	43.5	10.7	84.6	4.7	Silt	A-4 (0)	ML
✿	02-RWB-03#19	63.5	11.2	52.4	36.5	Silty Clay	A-6 (19)	CL
○	02-RWB-04#17	53.5	7.9	59.5	32.6	Silty Clay	A-6 (13)	CL
△	02-RWB-05#4	8.5	18.5	50.0	31.5	Silty Clay	A-6 (13)	CL
⊗	02-RWB-05#16	48.5	27.7	58.3	14.0	Silty Loam	A-6 (6)	CL
⊕	02-RWB-05#19	63.5	76.0	23.0	1.0	Sandy Loam	A-2-4 (0)	SM

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Number: 1100-04-01

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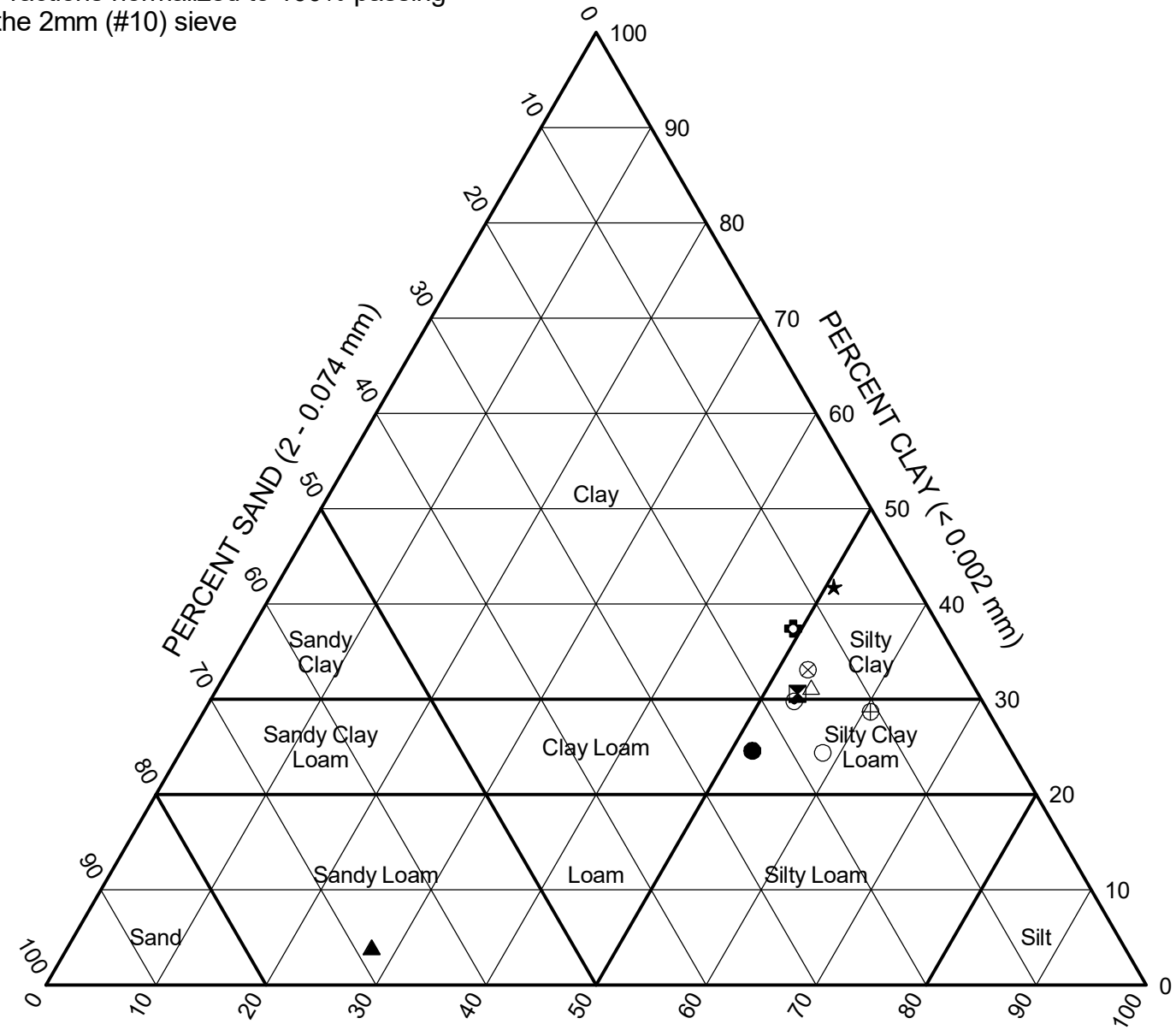

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	02-RWB-06#3	6.0	**23.5**	**51.9**	**24.6**	**Silty Clay Loam**	**A-6 (7)**	**CL**
⊠	02-RWB-06#11	26.0	**16.6**	**53.0**	**30.6**	**Silty Clay**	**A-6 (15)**	**CL**
▲	02-RWB-06#19	63.5	**68.4**	**27.6**	**4.0**	**Gravelly Sandy Loam**	**A-1-b (0)**	**SM**
★	02-RWB-06#23	83.5	**7.5**	**50.7**	**41.8**	**Silty Clay**	**A-6 (22)**	**CL**
⊙	02-ST-06#2	18.0	**17.1**	**53.1**	**29.8**	**Silty Clay Loam**	**A-6 (13)**	**CL**
✿	02-ST-06#3	33.0	**13.5**	**49.2**	**37.4**	**Clay**	**A-6 (15)**	**CL**
○	0589-B-01#8	58.5	**17.2**	**58.4**	**24.4**	**Silty Clay Loam**	**A-6 (8)**	**CL**
△	0589-B-03#12	28.5	**14.9**	**53.9**	**31.3**	**Silty Clay**	**A-6 (13)**	**CL**
⊗	08-RWB-01#8	18.5	**14.2**	**52.7**	**33.1**	**Silty Clay**	**A-6 (14)**	**CL**
⊕	08-RWB-02#11	38.5	**10.6**	**60.6**	**28.7**	**Gravelly Silty Clay Loam**	**A-6 (10)**	**CL**

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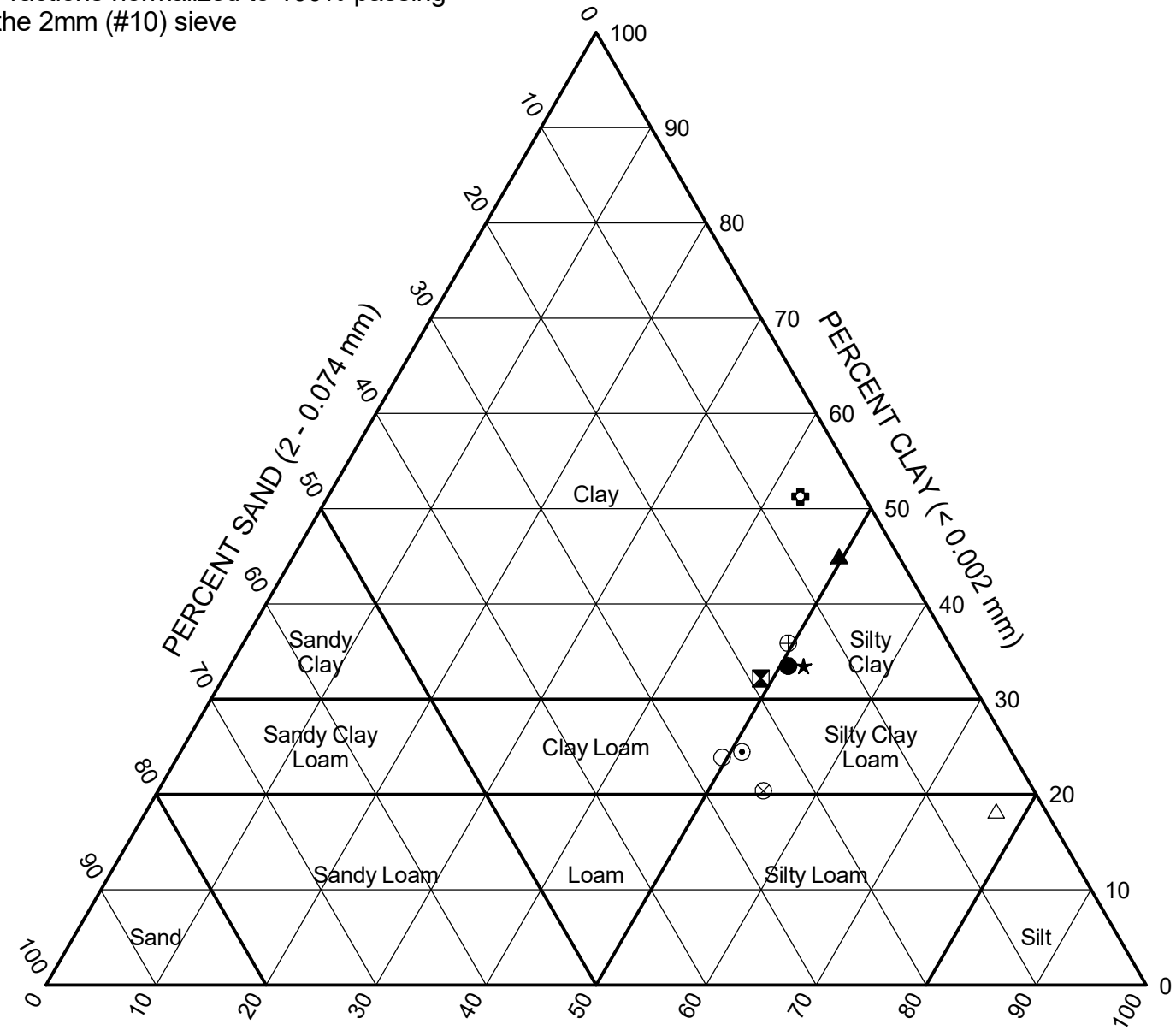

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	1088-B-02#11	26.0	**15.8**	**50.7**	**33.5**	**Silty Clay**	**A-6 (14)**	**CL**
⊠	1165-B-01B#13	33.5	**18.9**	**48.9**	**32.2**	**Clay**	**A-6 (14)**	**CL**
▲	1165-B-01B#19	63.5	**5.4**	**49.6**	**45.0**	**Clay**	**A-6 (23)**	**CL**
★	1165-B-02#6	13.5	**14.4**	**52.1**	**33.5**	**Silty Clay**	**A-6 (16)**	**CL**
⊙	1165-B-02#18	58.5	**24.6**	**51.0**	**24.5**	**Silty Clay Loam**	**A-6 (8)**	**CL**
✿	14-RWB-02#14	38.5	**5.8**	**42.9**	**51.3**	**Clay**	**A-7-6 (22)**	**CL**
○	14-RWB-03#16	48.5	**26.6**	**49.5**	**23.9**	**Clay Loam**	**A-6 (5)**	**CL**
△	16-RWB-01B#15	43.5	**4.4**	**77.2**	**18.3**	**Silty Loam**	**A-4 (5)**	**CL-ML**
⊗	16-RWB-02#15	43.5	**24.6**	**55.0**	**20.4**	**Silty Clay Loam**	**A-4 (4)**	**CL**
⊕	16-RWB-04B#10	23.5	**14.6**	**49.5**	**35.9**	**Clay**	**A-6 (12)**	**CL**

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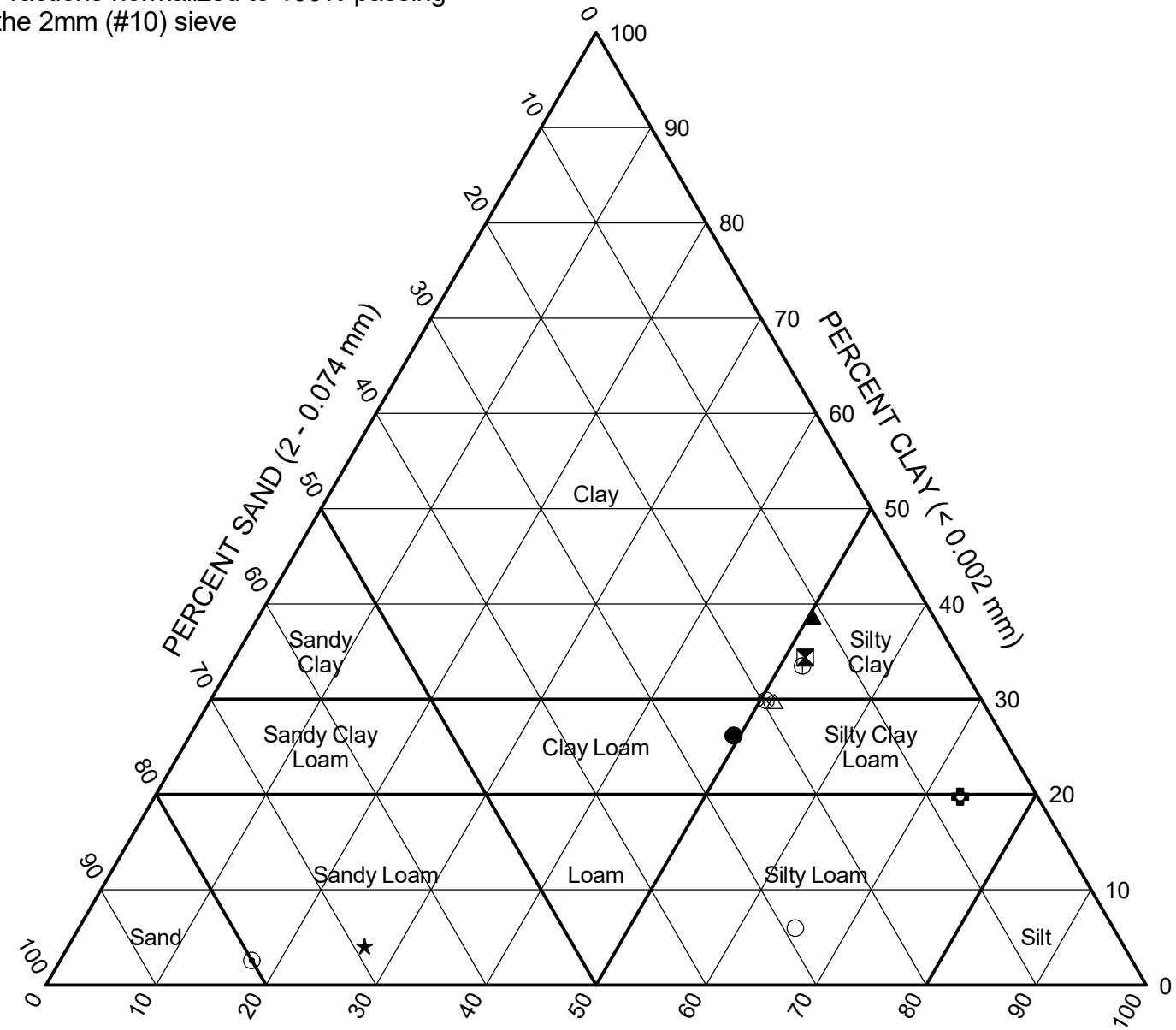

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	1702-B-01#9	21.0	24.3	49.4	26.2	Clay Loam	A-6 (7)	CL
⊠	1702-B-03#9	63.5	13.8	51.8	34.4	Silty Clay	A-6 (13)	CL
▲	1705-B-02#13	33.5	10.9	50.3	38.7	Silty Clay	A-6 (19)	CL
★	1705-B-02#19	63.5	69.2	26.9	4.1	Gravelly Sandy Loam	A-1-b (0)	SM
⊙	1705-B-02#22	78.5	80.0	17.4	2.6	Sand	A-1-b (0)	SM
✿	1705-B-03#16	48.5	7.0	73.2	19.8	Silty Loam	A-6 (11)	CL
○	1705-B-04#21	73.5	28.9	65.1	6.0	Silty Loam	A-4 (0)	CL-ML
△	1705-B-05#7	16.0	18.9	51.3	29.8	Silty Clay Loam	A-6 (14)	CL
⊗	1705-B-05A#1	10.0	19.6	50.5	29.9	Silty Clay Loam	A-6 (9)	CL
⊕	1705-B-05A#2	16.0	14.5	52.0	33.5	Silty Clay	A-6 (13)	CL

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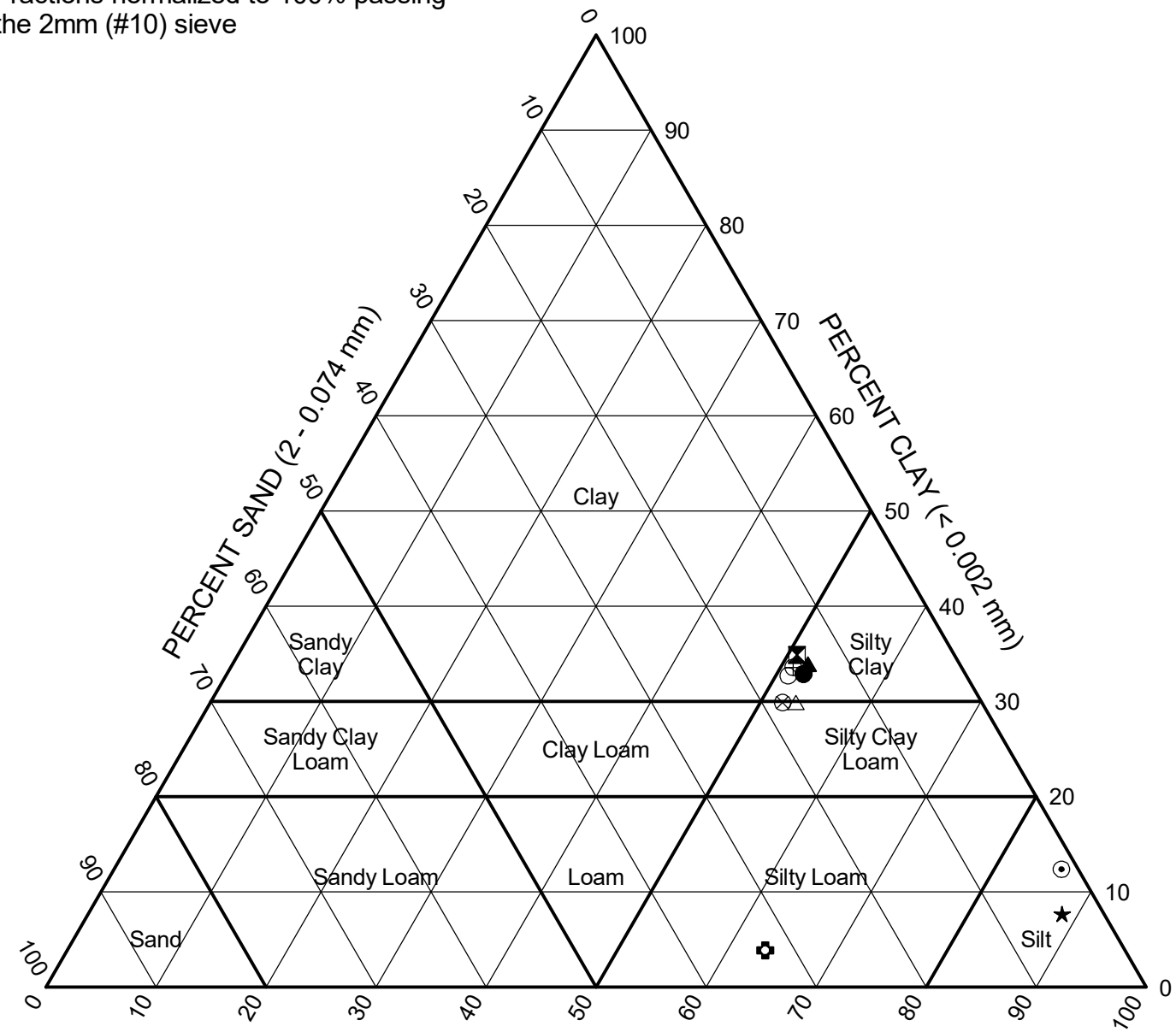

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	1705-B-05A#	16.5	14.7	52.4	32.9	Silty Clay	A-6 (11)	CL
⧓	1705-B-05A#3	25.0	14.2	50.8	34.9	Silty Clay	A-6 (12)	CL
▲	1705-B-07#12	28.5	13.7	52.3	33.9	Silty Clay	A-6 (17)	CL
★	1705-B-07#23	83.5	3.9	88.5	7.7	Silt	A-4 (0)	ML
⊙	1705-B-08#22	78.5	1.5	86.1	12.4	Silt	A-4 (0)	ML
✿	1706-B-01#23	83.5	32.7	63.4	3.9	Gravelly Silty Loam	A-4 (0)	ML
○	1706-B-02#8	18.5	16.3	51.1	32.7	Silty Clay	A-6 (12)	CL
△	1710-B-03#2	3.5	16.9	53.2	29.9	Silty Clay Loam	A-6 (10)	CL
⊗	1710-B-03#6	13.5	18.1	52.0	29.9	Silty Clay Loam	A-6 (11)	CL
⊕	1710-B-03#13	33.5	15.4	51.1	33.6	Silty Clay	A-6 (12)	CL

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Number: 1100-04-01

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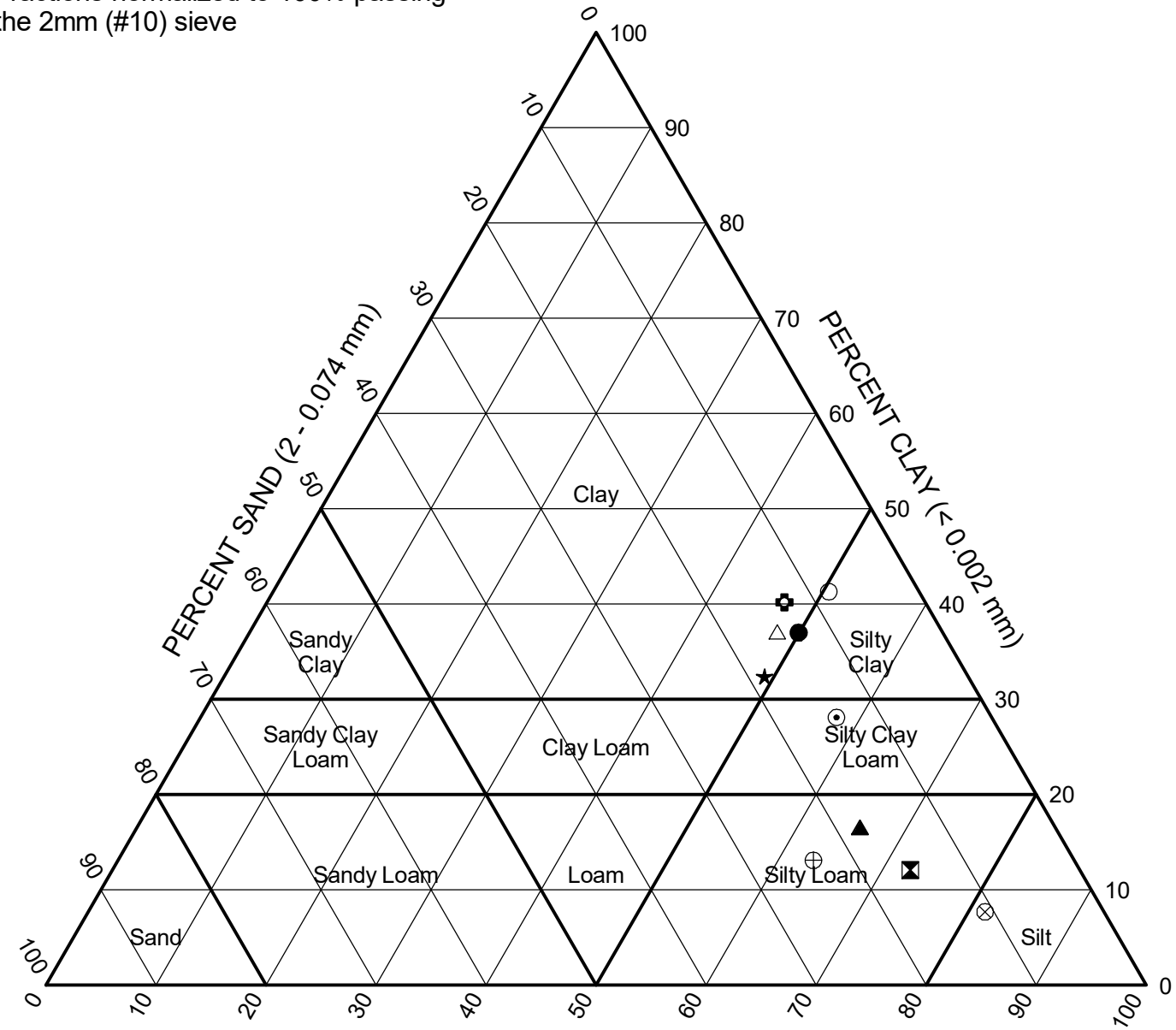
Fractions normalized to 100% passing the 2mm (#10) sieve



	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	1710-B-03#16	48.5	13.1	49.9	37.0	Clay	A-6 (12)	CL
⧓	1710-B-03#20	68.5	15.3	72.5	12.1	Silty Loam	A-4 (1)	CL-ML
▲	1710-B-03#23	83.5	17.6	65.7	16.6	Silty Loam	A-4 (4)	CL
★	1710-B-04#5	11.0	18.5	49.1	32.4	Clay	A-6 (11)	CL
⊙	1710-B-04#9	21.0	14.2	57.8	28.1	Silty Clay Loam	A-6 (9)	CL
✿	1710-B-04#15	43.5	12.8	47.0	40.2	Clay	A-6 (14)	CL
○	1710-B-04#17	53.5	8.2	50.5	41.3	Silty Clay	A-6 (16)	CL
△	1710-B-04#18	58.5	15.0	47.9	37.1	Clay	A-6 (13)	CL
⊗	1710-B-04#20	68.5	10.7	81.5	7.7	Silt	A-4 (0)	ML
⊕	1710-B-04#23	83.5	23.6	63.2	13.1	Silty Loam	A-4 (1)	CL-ML

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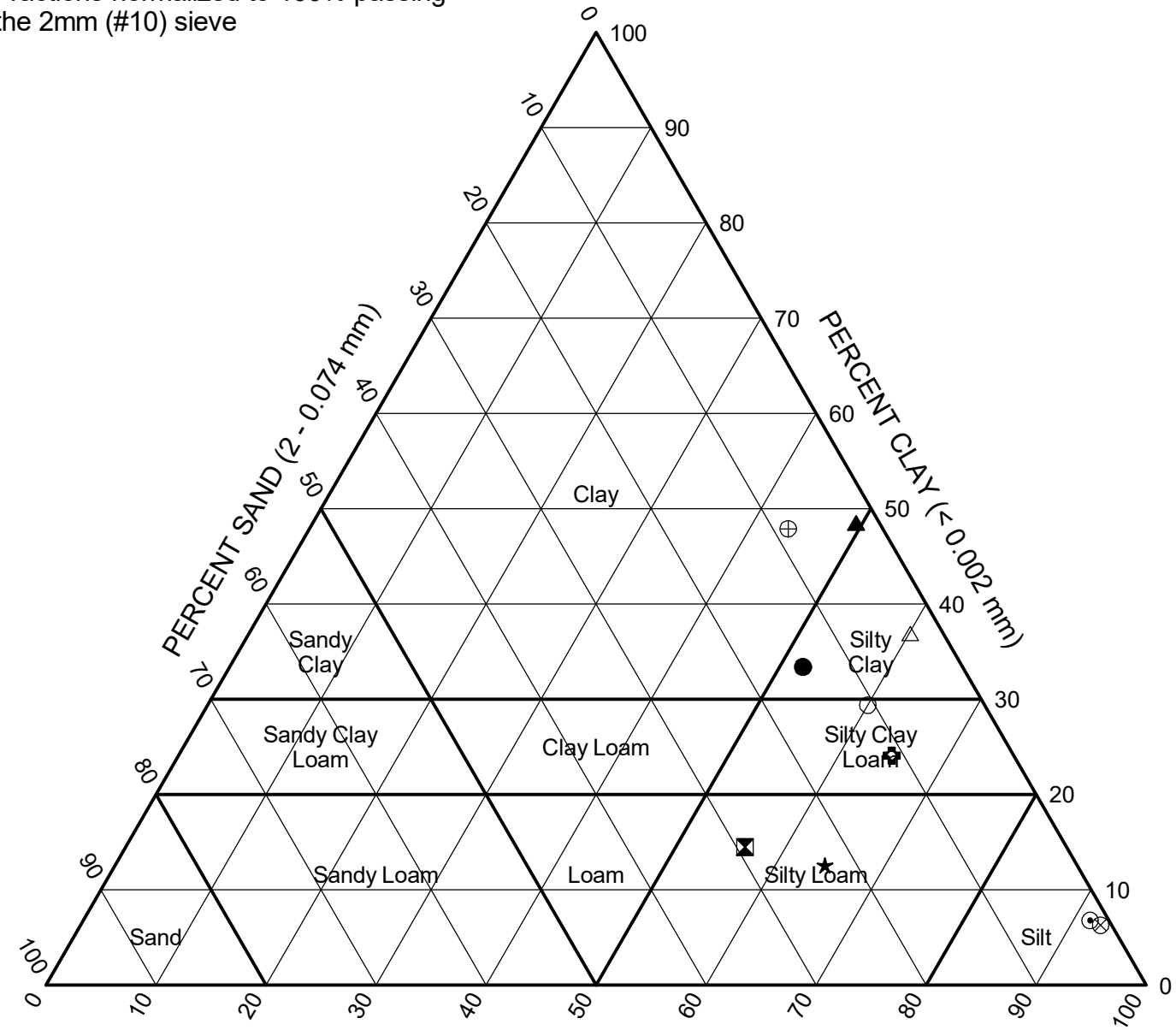

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	1712-B-02#9	21.0	14.5	52.1	33.4	Silty Clay	A-6 (13)	CL
⊠	1712-B-02#15	43.5	29.3	56.3	14.5	Silty Loam	A-6 (5)	CL
▲	1712-B-02#17	53.5	2.0	49.4	48.5	Clay	A-6 (17)	CL
★	1712-B-02#20	68.5	23.0	64.5	12.6	Silty Loam	A-4 (1)	CL-ML
⊙	1712-B-02#23	83.5	1.7	91.5	6.8	Silt	A-4 (0)	ML
✿	1715-B-01#21	73.5	11.0	64.8	24.1	Silty Clay Loam	A-6 (10)	CL
○	1715-B-01#24	88.5	10.6	60.0	29.4	Silty Clay Loam	A-6 (9)	CL
△	1715-B-03#16	48.5	3.1	60.1	36.9	Silty Clay	A-6 (18)	CL
⊗	1715-B-03#23	83.5	1.1	92.7	6.3	Silt	A-4 (0)	ML
⊕	2054-B-01#6	13.5	8.6	43.5	47.9	Clay	A-7-6 (21)	CL

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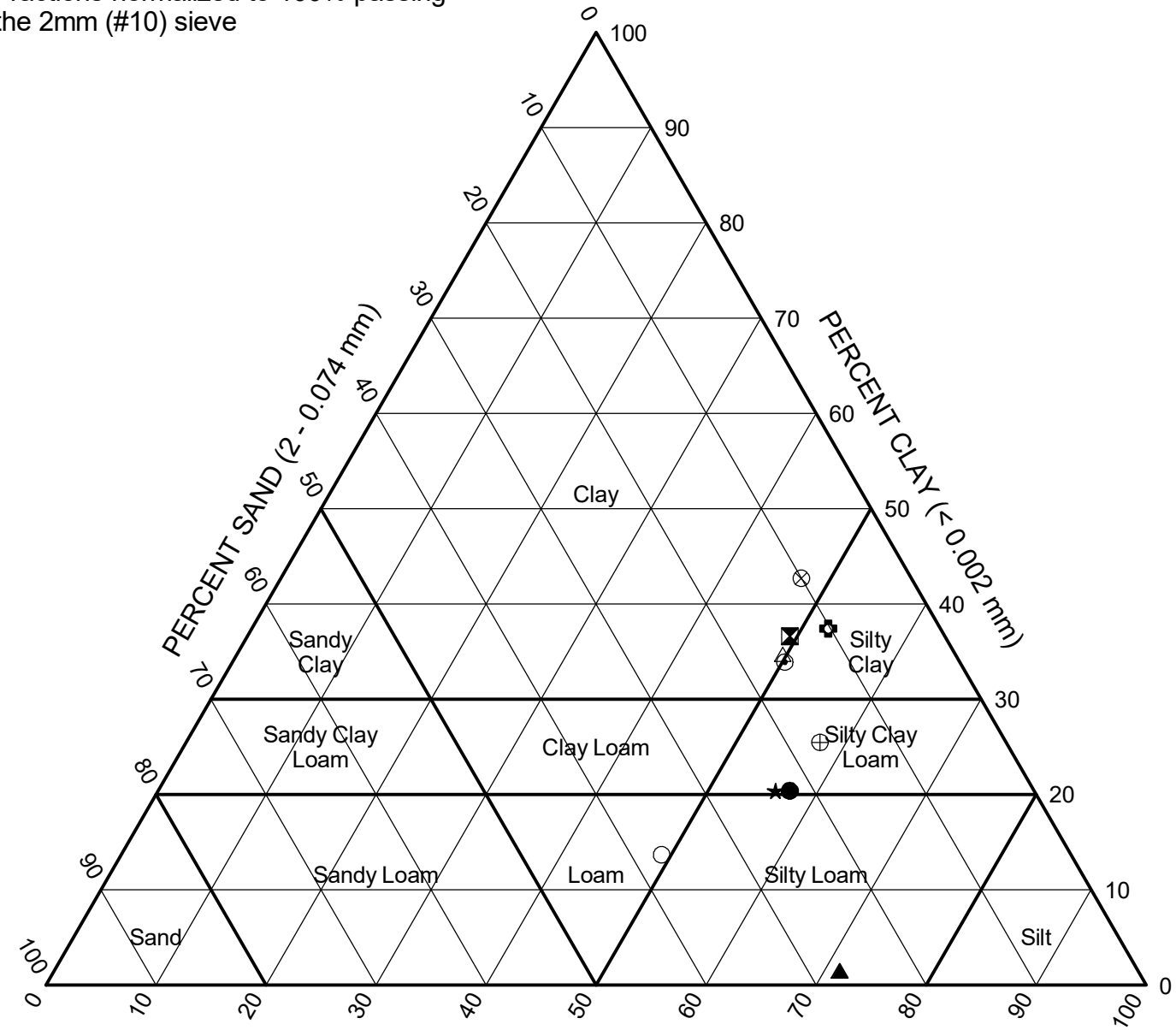

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	2054-B-02#15	43.5	22.2	57.4	20.4	Silty Clay Loam	A-6 (6)	CL
⧓	2054-B-03#13	33.5	14.1	49.3	36.6	Clay	A-6 (15)	CL
▲	2054-B-03#23	83.5	27.1	71.4	1.5	Silty Loam	A-4 (0)	ML
★	2055-B-02#23	83.5	23.6	56.1	20.4	Silty Clay Loam	A-6 (6)	CL
⊙	2055-B-04#7	16.0	15.9	50.2	33.9	Silty Clay	A-6 (15)	CL
✿	2055-B-04#14	38.5	10.2	52.4	37.4	Silty Clay	A-6 (16)	CL
○	2055-B-04#15	43.5	37.2	49.1	13.7	Gravelly Loam	A-4 (2)	CL
△	2055-B-05#6	13.5	15.7	49.6	34.7	Clay	A-6 (15)	CL
⊗	2055-B-05#14	38.5	9.9	47.3	42.7	Clay	A-6 (19)	CL
⊕	20-RWB-01#7	16.0	16.9	57.6	25.5	Silty Clay Loam	A-6 (10)	CL

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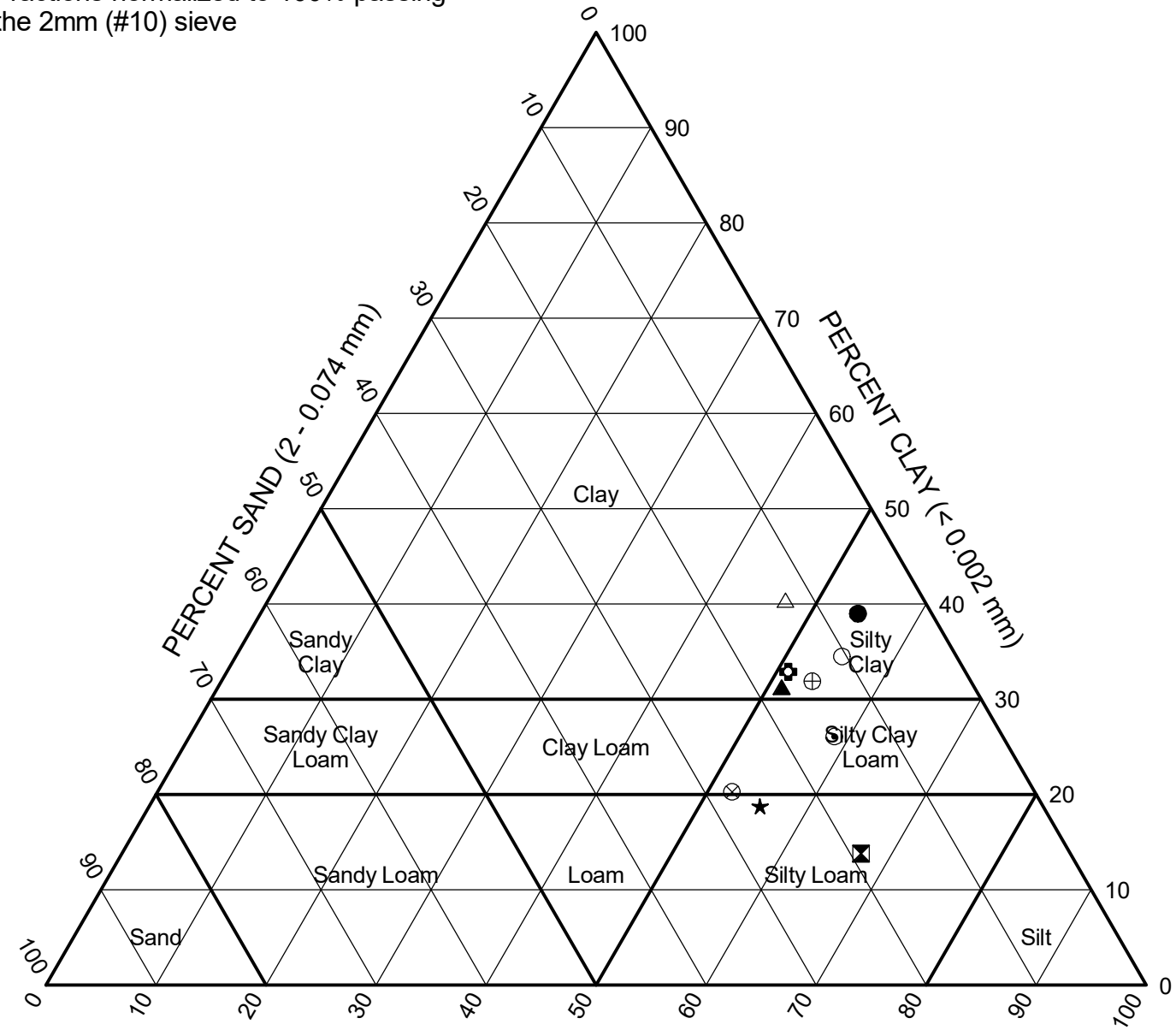

Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 20-RWB-01#16	48.5	**6.8**	**54.3**	**39.0**	**Silty Clay**	**A-6 (16)**	**CL**
⊠ 21-RWB-02#24	89.0	**19.1**	**67.2**	**13.8**	**Silty Loam**	**A-4 (3)**	**CL**
▲ 21-RWB-04#10	23.5	**17.4**	**51.2**	**31.3**	**Silty Clay**	**A-6 (11)**	**CL**
★ 21-RWB-05#18	58.5	**25.8**	**55.5**	**18.8**	**Silty Loam**	**A-4 (4)**	**CL**
⊙ 22-RWB-03#6	13.5	**15.4**	**58.6**	**26.1**	**Silty Clay Loam**	**A-6 (10)**	**CL**
✿ 22-RWB-03#13	33.5	**16.1**	**51.0**	**32.9**	**Silty Clay**	**A-6 (11)**	**CL**
○ 22-RWB-03#18	58.5	**10.4**	**55.1**	**34.5**	**Silty Clay**	**A-6 (14)**	**CL**
△ 23-RWB-03#12	28.5	**12.7**	**47.0**	**40.4**	**Clay**	**A-6 (15)**	**CL**
⊗ 23-RWB-03#15	43.5	**27.4**	**52.2**	**20.3**	**Silty Clay Loam**	**A-4 (4)**	**CL**
⊕ 24-RWB-03#8	18.5	**14.2**	**53.7**	**31.9**	**Silty Clay**	**A-6 (11)**	**CL**

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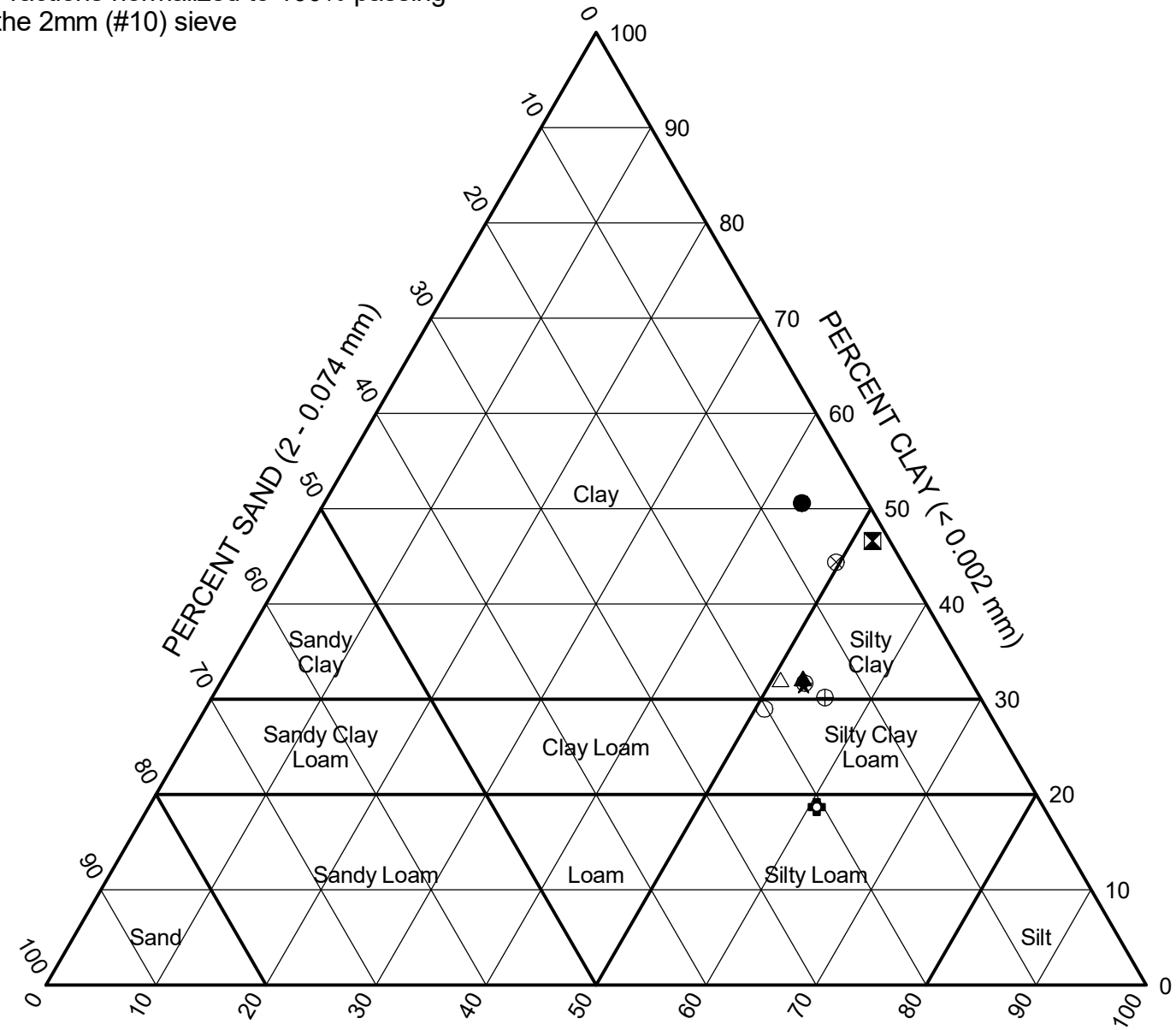

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	24-RWB-03#17	53.5	**5.9**	**43.4**	**50.6**	**Clay**	**A-7-6 (23)**	**CL**
⧓	27-RWB-02#18	58.5	**1.6**	**51.8**	**46.6**	**Silty Clay**	**A-7-6 (23)**	**CL**
▲	27-RWB-03#10	23.5	**15.2**	**52.7**	**32.2**	**Silty Clay**	**A-6 (13)**	**CL**
★	28-RWB-01#15	43.5	**15.5**	**53.1**	**31.5**	**Silty Clay**	**A-6 (10)**	**CL**
⊙	29-RWB-01#13	33.5	**15.3**	**53.1**	**31.7**	**Silty Clay**	**A-6 (11)**	**CL**
✿	29-RWB-01#18	58.5	**20.6**	**60.7**	**18.7**	**Silty Loam**	**A-4 (5)**	**CL**
○	30-RWB-03#1	13.5	**20.1**	**50.8**	**29.0**	**Silty Clay Loam**	**A-6 (10)**	**CL**
△	30-RWB-03#4	28.5	**17.2**	**50.7**	**32.1**	**Silty Clay**	**A-6 (12)**	**CL**
⊗	31-RWB-01#17	53.5	**5.9**	**49.6**	**44.4**	**Clay**	**A-6 (19)**	**CL**
⊕	31-RWB-03#12	28.5	**14.1**	**55.7**	**30.2**	**Silty Clay**	**A-6 (10)**	**CL**

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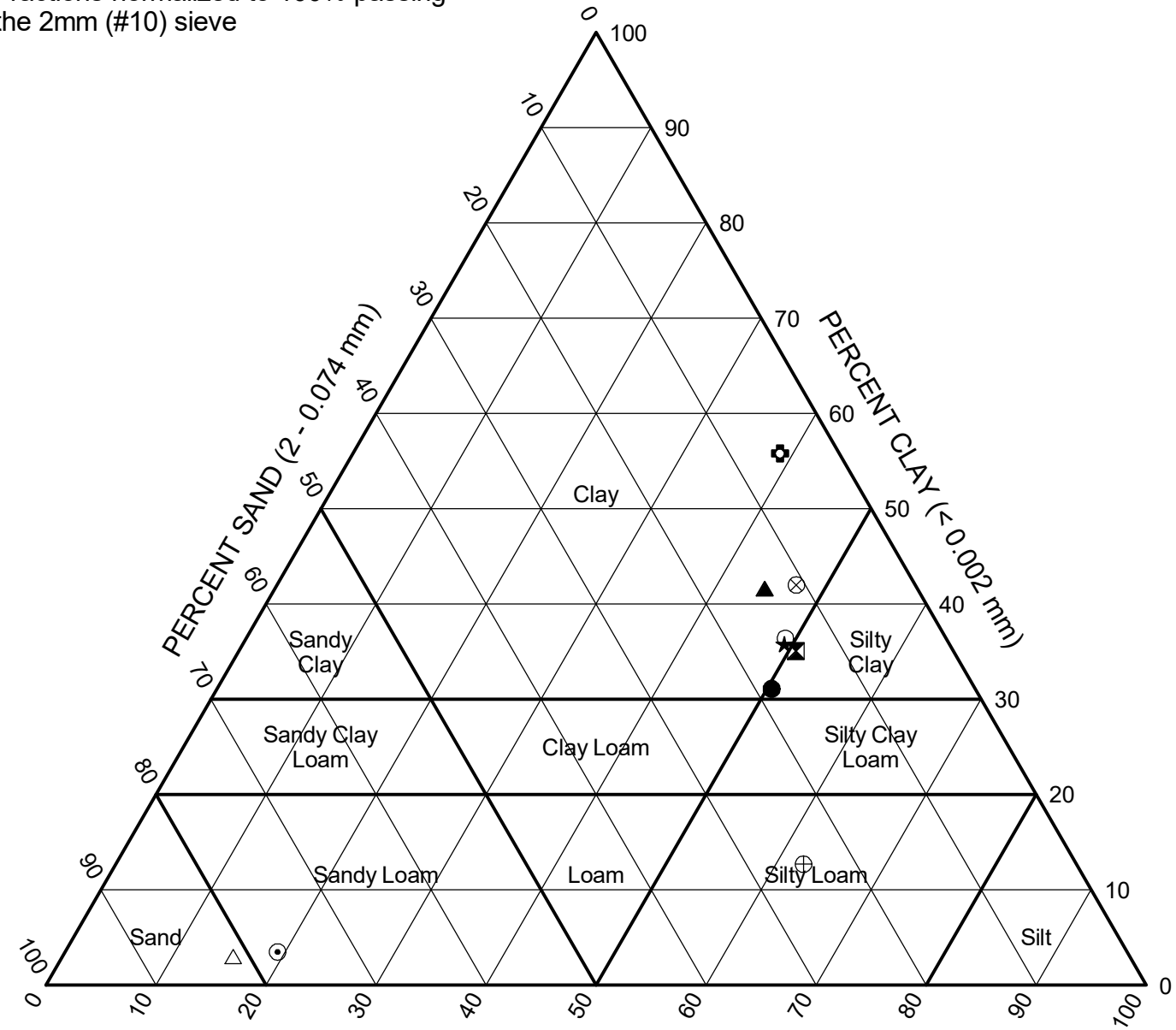

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	32-RWB-03B#2	18.5	18.4	50.4	31.1	Silty Clay	A-6 (12)	CL
⊠	32-RWB-03B#5	33.5	14.3	50.6	35.1	Silty Clay	A-6 (13)	CL
▲	33-RWB-02#9	21.0	13.9	44.5	41.6	Clay	A-6 (17)	CL
★	BFB-01#6	13.5	14.9	49.2	35.8	Clay	A-6 (13)	CL
⊙	BFB-01#21	63.5	77.3	19.3	3.5	Gravelly Sandy Loam	A-1-b (0)	SM
✿	BFB-02#2	3.5	5.3	38.8	55.8	Clay	A-7-6 (24)	CL
○	BFB-02#9	21.0	14.5	49.0	36.4	Clay	A-6 (13)	CL
△	BFB-02#21	63.5	81.4	15.5	3.0	Sand	A-1-b (0)	SM
⊗	BFB-03#13	31.0	10.9	47.2	42.0	Clay	A-6 (15)	CL
⊕	BFB-03#16	38.5	24.9	62.5	12.7	Silty Loam	A-4 (0)	ML

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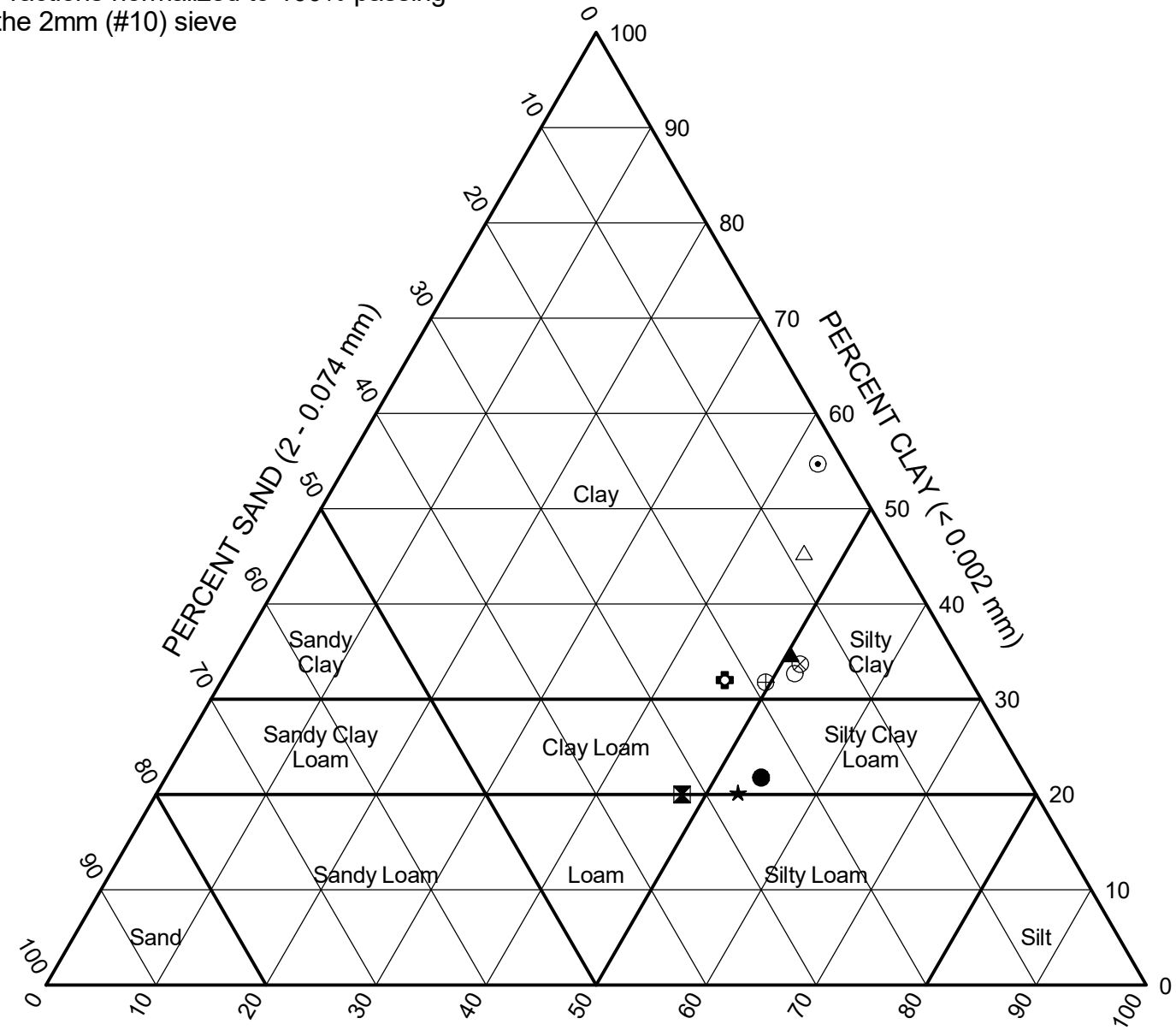

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	BFB-03#23	73.5	24.1	54.1	21.8	Silty Clay Loam	A-4 (3)	CL
⊠	BFB-04#2	3.5	32.2	47.8	20.0	Clay Loam	A-4 (2)	CL
▲	BFB-04#9	21.0	15.0	50.3	34.7	Silty Clay	A-6 (12)	CL
★	BFB-04#17	43.5	27.0	52.8	20.2	Silty Clay Loam	A-4 (2)	CL
⊙	BFB-04#24	78.5	2.4	42.8	54.7	Clay	A-7-6 (23)	CL
✿	NB90-SGB-03#2	3.5	22.3	45.7	32.0	Clay	A-7-6 (15)	CL
⊕	NB90-SGB-07#2	3.5	15.6	51.7	32.7	Silty Clay	A-6 (12)	CL
△	NB90-SGB-10#3	5.0	8.2	46.2	45.4	Clay	A-7-6 (22)	CL
⊗	NB90-SGB-13#2	3.0	14.6	51.7	33.7	Silty Clay	A-6 (13)	CL
⊛	NB90-SGB-16B#2	3.0	18.7	49.5	31.8	Clay	A-6 (12)	CL

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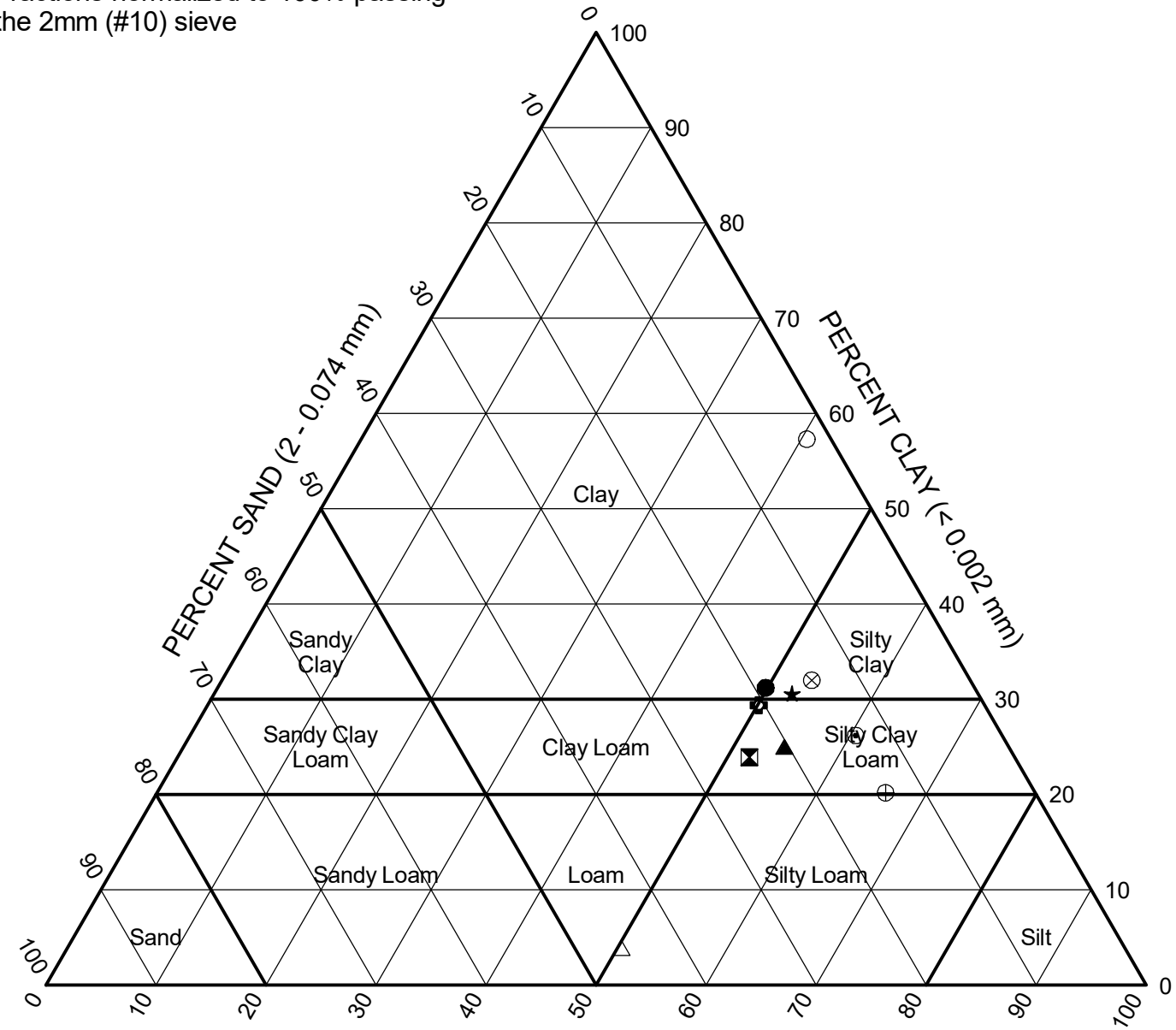

Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
SB90-SGB-21#2	3.0	**19.0**	**49.8**	**31.2**	**Clay**	**A-6 (12)**	**CL**
SB90-SGB-23#2	3.0	**24.3**	**52.0**	**23.9**	**Silty Clay Loam**	**A-6 (9)**	**CL**
SB90-SGB-02#2	3.0	**20.4**	**54.6**	**25.0**	**Silty Clay Loam**	**A-6 (9)**	**CL**
SB90-SGB-06#2	3.5	**17.0**	**52.5**	**30.6**	**Silty Clay**	**A-6 (11)**	**CL**
SB90-SGB-10#2	3.0	**13.3**	**60.5**	**26.2**	**Silty Clay Loam**	**A-6 (11)**	**CL**
SB90-SGB-15#2	3.0	**20.4**	**50.1**	**29.4**	**Silty Clay Loam**	**A-6 (9)**	**CL**
SB90-SGB-18#3	5.0	**2.2**	**40.5**	**57.3**	**Clay**	**A-7-6 (33)**	**CH**
SB90-SGB-20#	3.0	**45.7**	**50.4**	**3.9**	**Silty Loam**	**A-4 (0)**	**ML**
SB90-SGB-22#1	1.0	**14.4**	**53.6**	**32.0**	**Silty Clay**	**A-6 (11)**	**CL**
SB90-SGB-24#2	3.5	**13.7**	**66.2**	**20.2**	**Silty Clay Loam**	**A-6 (8)**	**CL**

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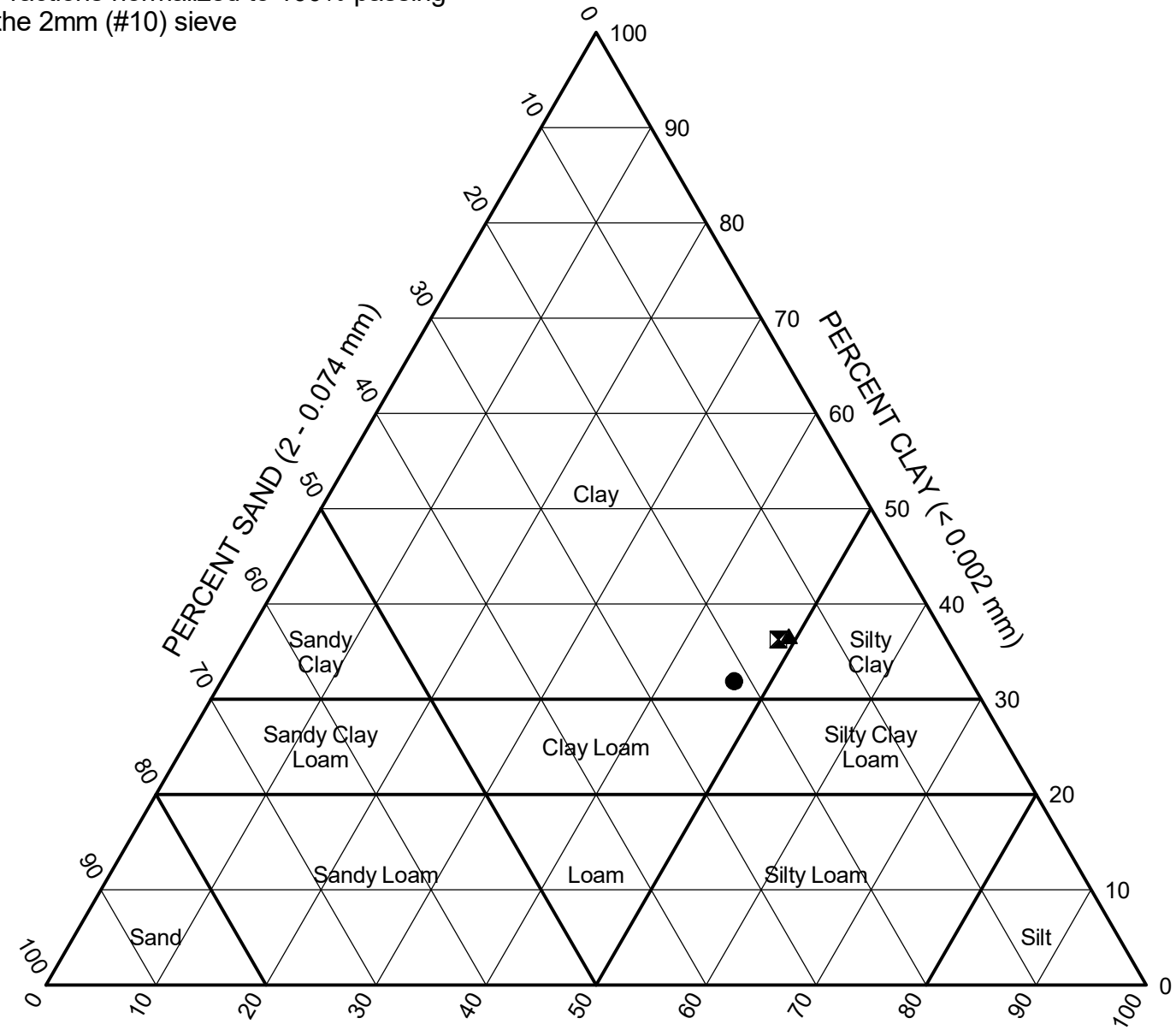

	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	051-RWB-04#7	15.0	**21.6**	**46.6**	**31.9**	**Clay**	**A-6 (9)**	**CL**
⧗	051-RWB-04#11	25.0	**15.3**	**48.4**	**36.3**	**Clay**	**A-6 (12)**	**CL**
▲	051-RWB-04#15	35.0	**14.2**	**49.2**	**36.6**	**Clay**	**A-6 (12)**	**CL**

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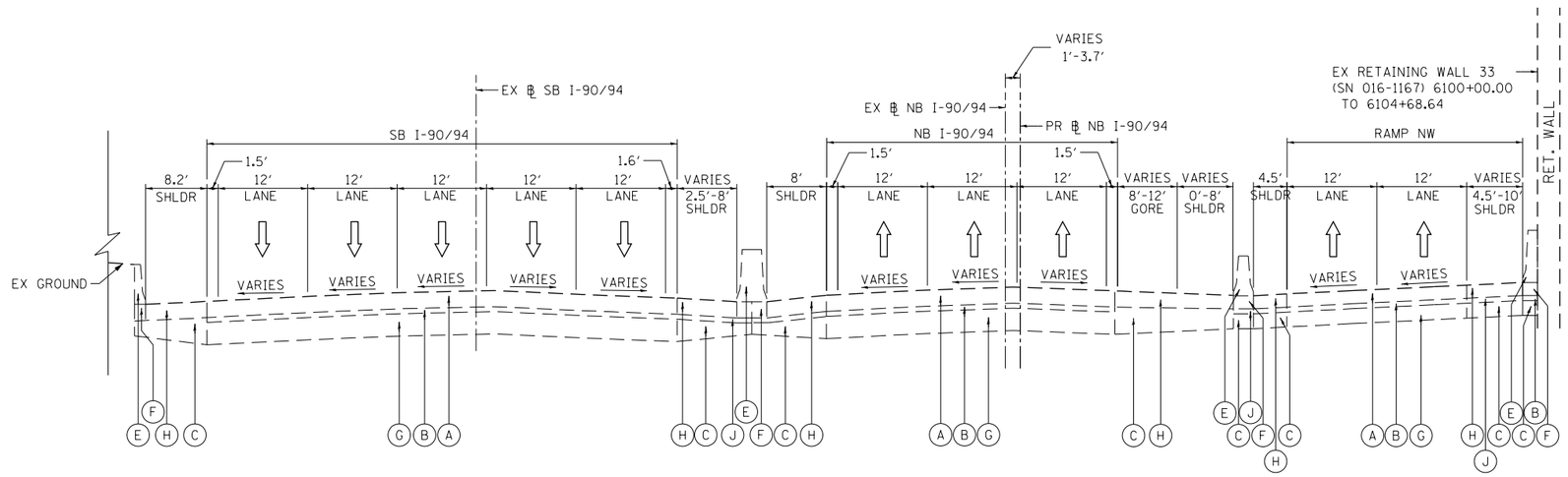
APPENDIX D

Proposed Pavement Structure

- I-90/94 NB and Connecting Ramps
- I-90/94 SB and Connecting Ramps

- I-90/94 NB and Connecting Ramps



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6100+00.00 TO STA 6110+60.77

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABLIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

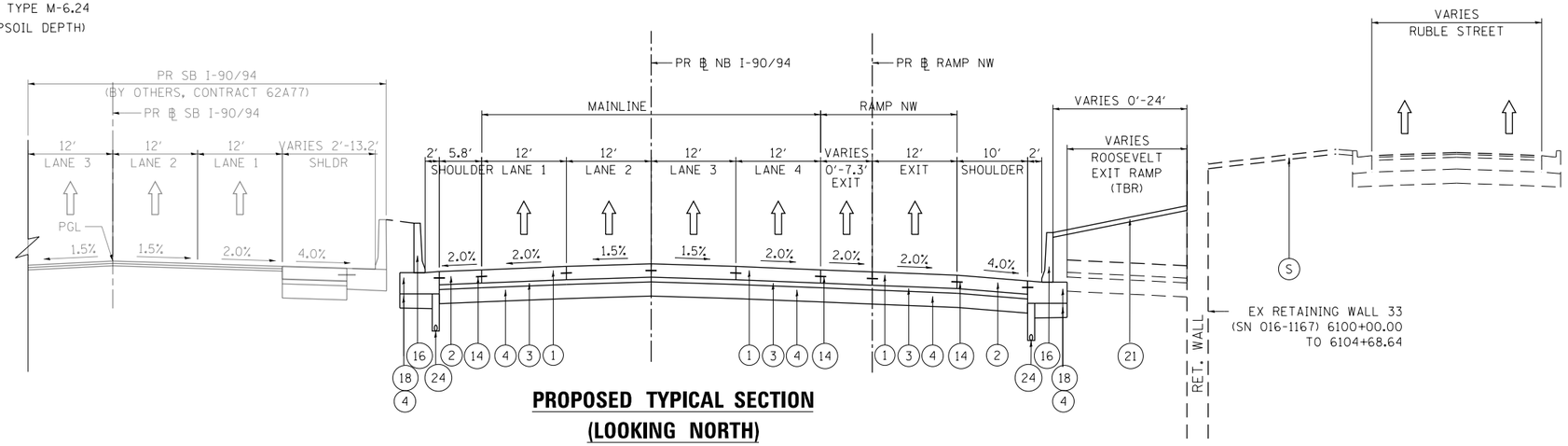
PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (22) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (23) PIPE UNDERDRAINS, TYPE 2, 6"
- (24) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6100+00.00 TO STA 6108+17.74

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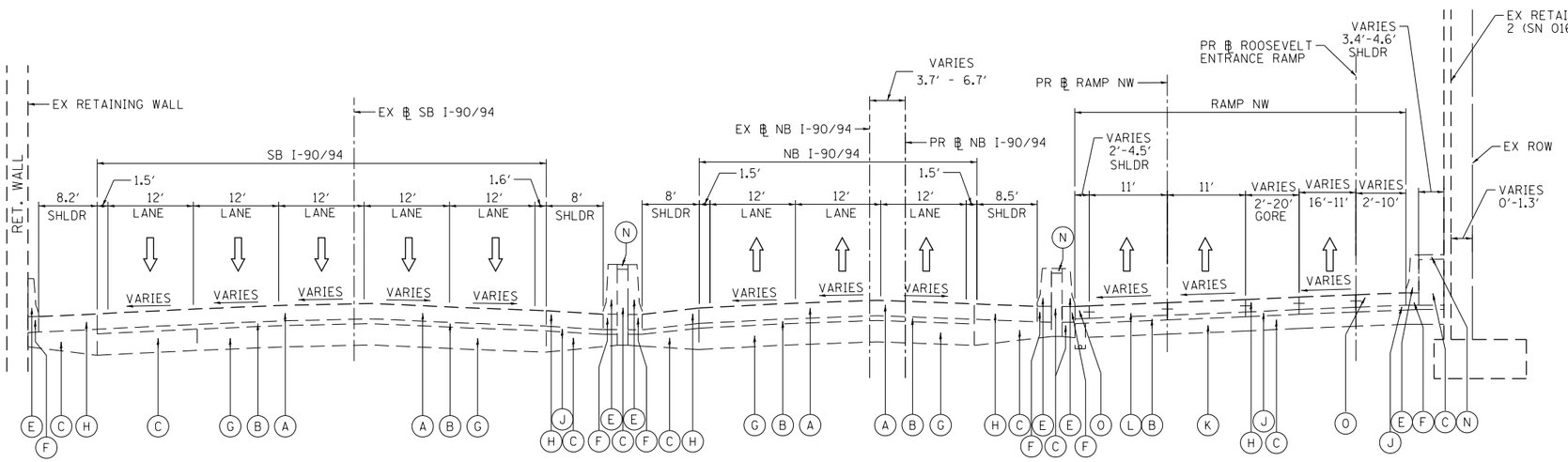
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

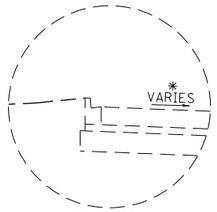
SCALE: NONE | SHEET 1 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	27
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
(LOOKING NORTH)

PR ℄ NB I-90/94
STA 6110+60.77 TO STA 6113+40.77

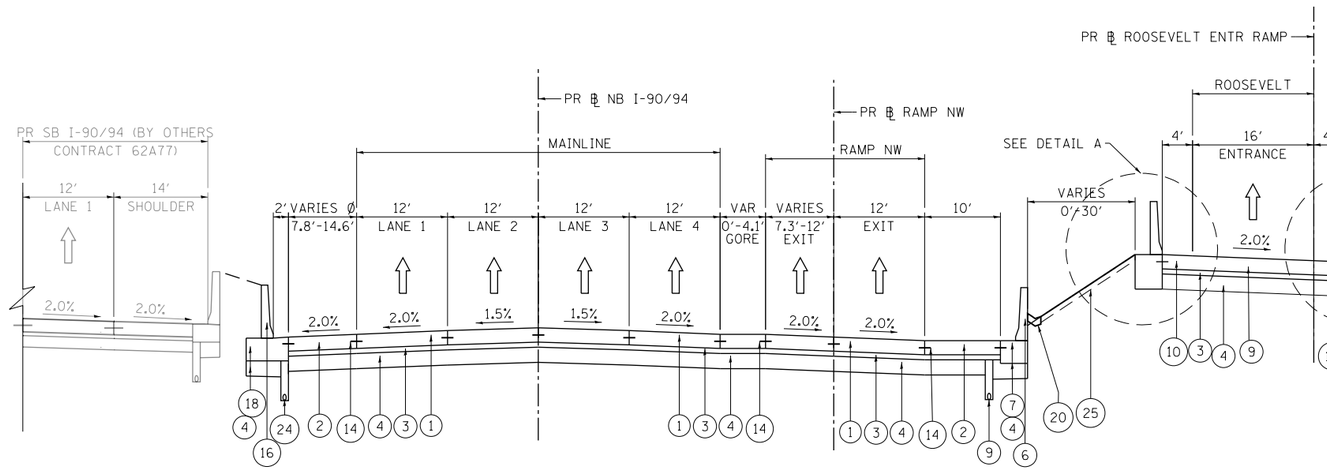


DETAIL A

CURB AND GUTTER FROM:
STA 6108+17.74 TO STA 6109+89.07

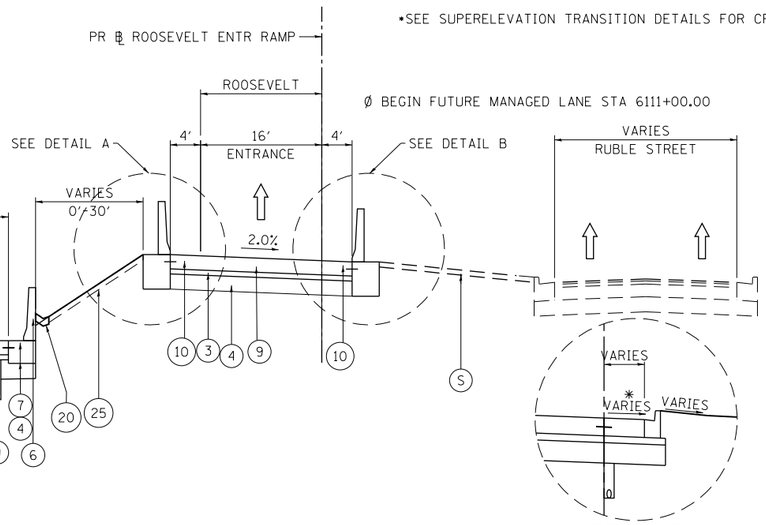
EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABLIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)



PROPOSED TYPICAL SECTION
(LOOKING NORTH)

PR ℄ NB I-90/94
STA 6108+17.74 TO STA 6111+29.73



DETAIL B

CURB AND GUTTER FROM:
STA 6109+92.13 TO STA 6110+64.08

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGH
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (22) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (23) PIPE UNDERDRAINS, TYPE 2, 6"
- (24) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (25) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (26) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (27) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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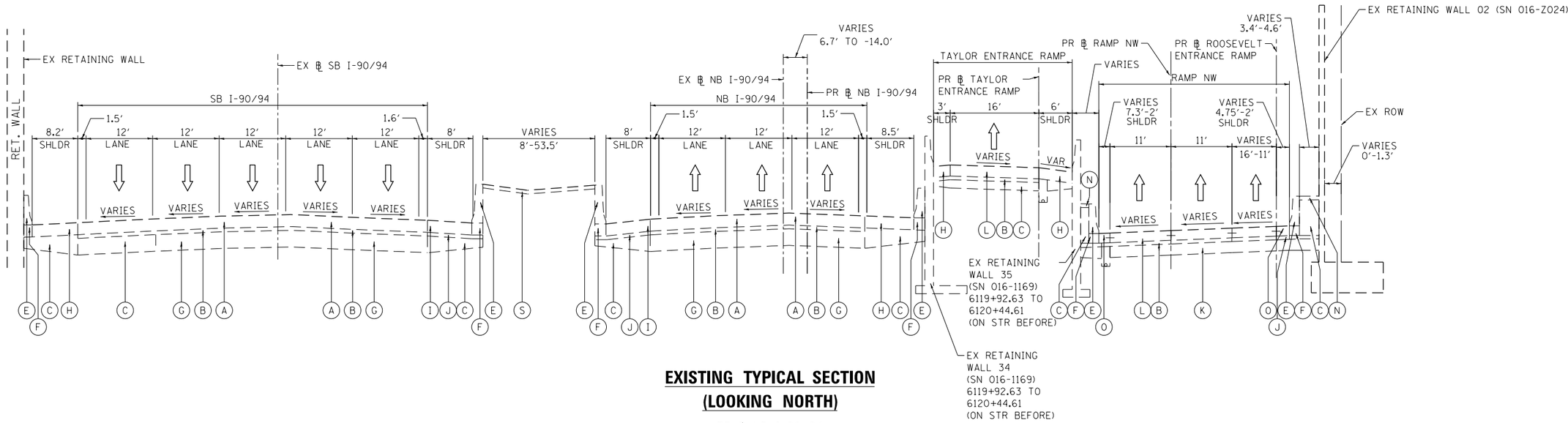
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JMG	REVISED -	
	PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -	

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 2 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	28
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6113+40.77 TO STA 6120+44.61

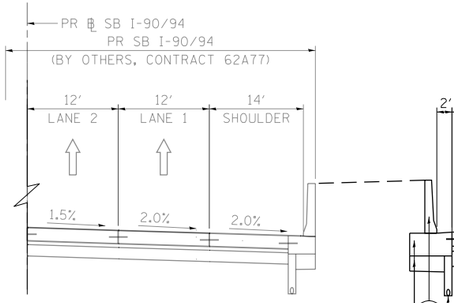
PROPOSED

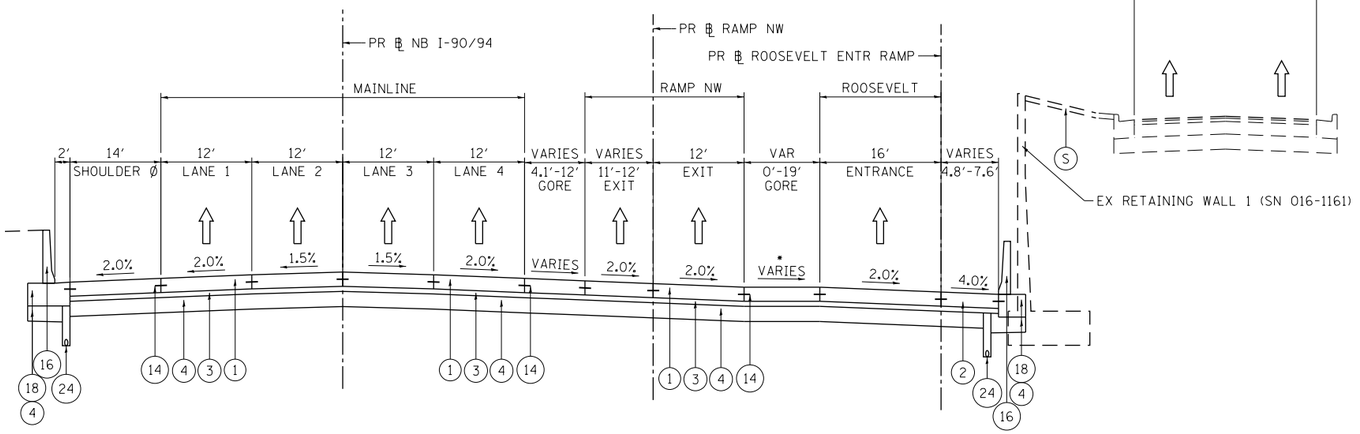
1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2″
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2″
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
4. AGGREGATE SUBGRADE IMPROVEMENT 12″
5. PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11″
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4″ (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4″
9. PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9″
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4″ (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4″
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2″ (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4″
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42″ HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4″
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6″
24. TOPSOIL FURNISH AND PLACE, 4″ AND SEEDING OR SODDING,
25. (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2″
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2″

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES





EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7″ TO 13″
- (B) STABLIZED SUBBASE, 4″
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0″ TO 36″
- (D) HOT-MIX ASPHALT PAVEMENT, 3″ TO 7″
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12″
- (H) HOT-MIX ASPHALT SHOULDERS, 10″ TO 13″
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4″
- (K) AGGREGATE SUBGRADE 12″
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7″ TO 10″
- (M) SUBBASE GRANULAR MATERIAL, 8″
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11″
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4″
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6
- (S) GROUND SURFACE (ASSUME EXISTING 9″ TOPSOIL DEPT

PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6111+29.73 TO STA STA 6114+64.26

Ø BEGIN FUTURE MANAGED LANE STA 6111+00.00

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TranSystems

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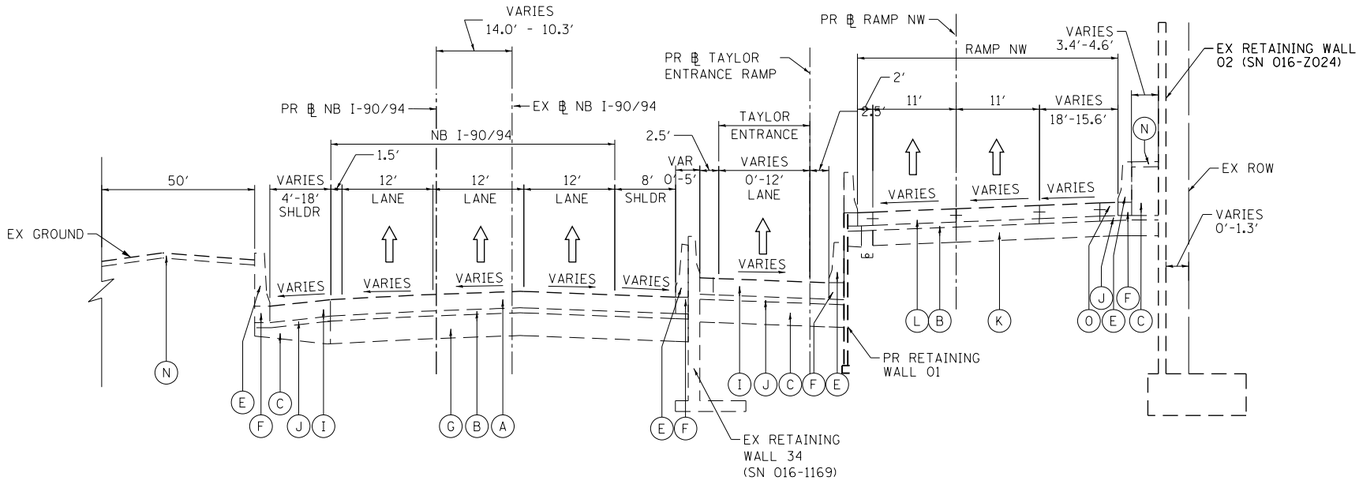
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

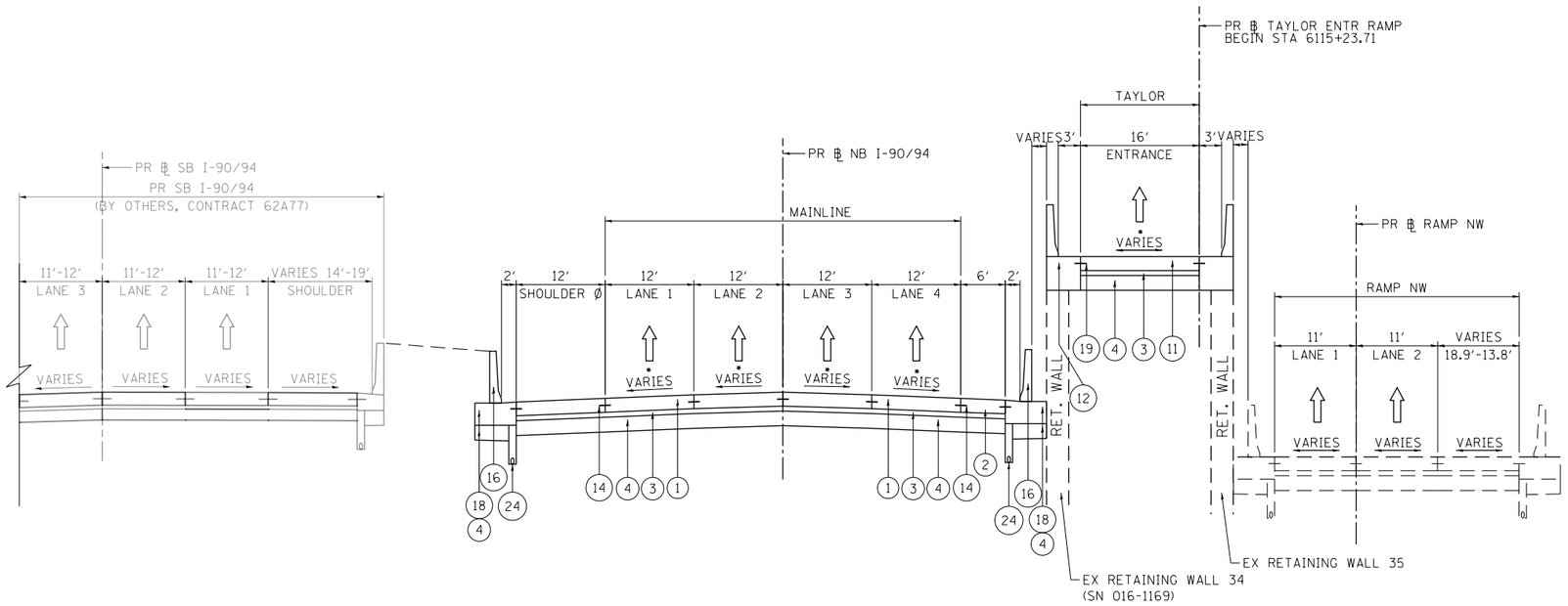
SCALE: NONE | SHEET 3 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	29
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6120+44.61 TO STA 6121+59.43



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6114+64.26 TO STA 6119+92.46

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7'' TO 13''
- (B) STABLIZED SUBBASE, 4''
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0'' TO 36''
- (D) HOT-MIX ASPHALT PAVEMENT, 3'' TO 7''
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12''
- (H) HOT-MIX ASPHALT SHOULDERS, 10'' TO 13''
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4''
- (K) AGGREGATE SUBGRADE 12''
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7'' TO 10''
- (M) SUBBASE GRANULAR MATERIAL, 8''
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11''
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4''
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9'' TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2''
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12''
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11''
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9''
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4''
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4''
- (22) CONCRETE CURB, TYPE B
- (22) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (23) PIPE UNDERDRAINS, TYPE 2, 6''
- (24) TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (25) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (26) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
- (27) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

Ø BEGIN FUTURE MANAGED LANE STA 6111+00.00

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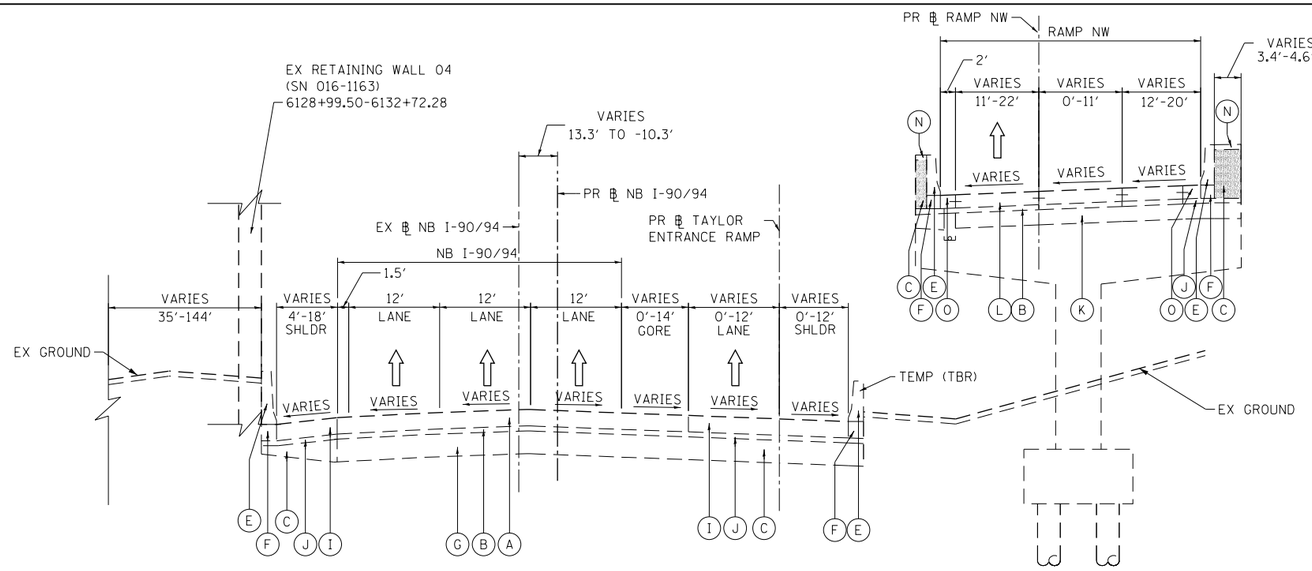
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -	

TYPICAL SECTIONS
I-90/94

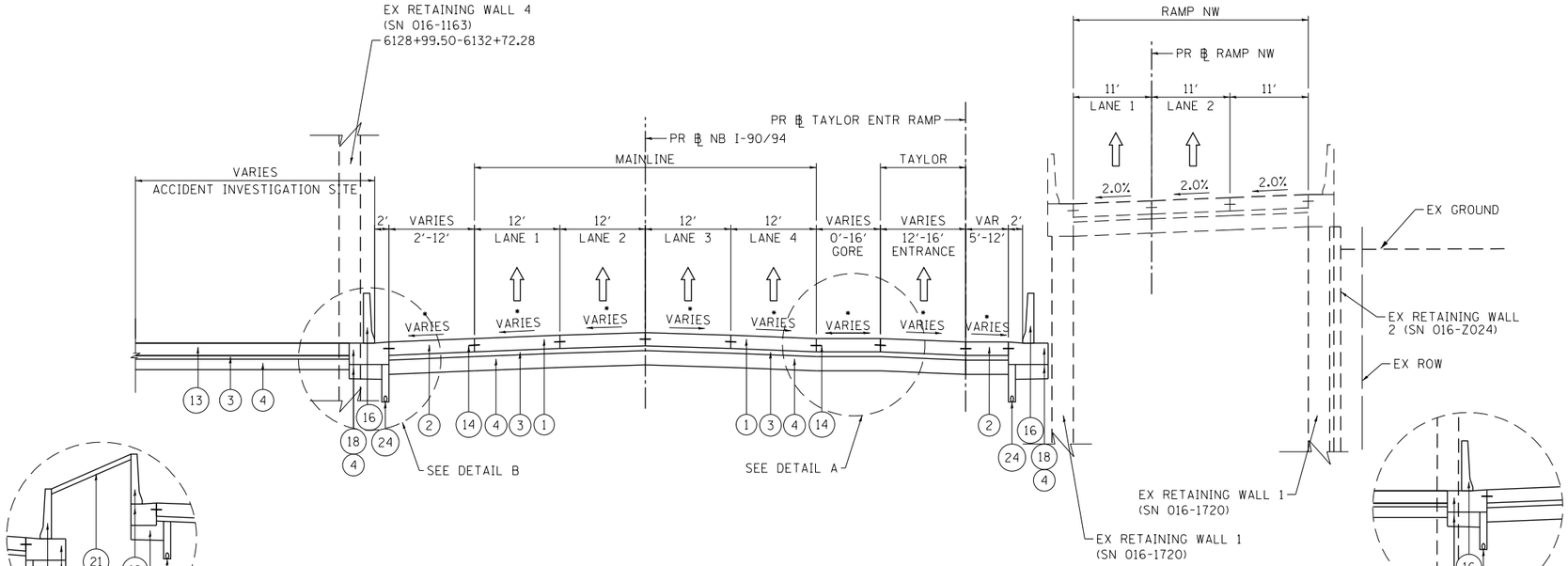
SCALE: NONE | SHEET 4 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	30
		CONTRACT NO. 62A76		
		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ I-90/94
STA 6121+59.43 TO STA 6138+60.62



DETAIL A

MEDIAN BARRIER FROM:
STA 6120+44.59 TO STA 6121+95.31

PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6119+92.46 TO STA 6128+29.23

DETAIL B

MEDIAN BARRIER FROM:
STA 6120+44.59 TO STA 6121+95.31

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7'' TO 13''
- (B) STABLIZED SUBBASE, 4''
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0'' TO 36''
- (D) HOT-MIX ASPHALT PAVEMENT, 3'' TO 7''
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12''
- (H) HOT-MIX ASPHALT SHOULDERS, 10'' TO 13''
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4''
- (K) AGGREGATE SUBGRADE 12''
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7'' TO 10''
- (M) SUBBASE GRANULAR MATERIAL, 8''
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11''
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4''
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9'' TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2''
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12''
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11''
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9''
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4''
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4''
- (22) CONCRETE CURB, TYPE B
- (22) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (23) PIPE UNDERDRAINS, TYPE 2, 6''
- (24) TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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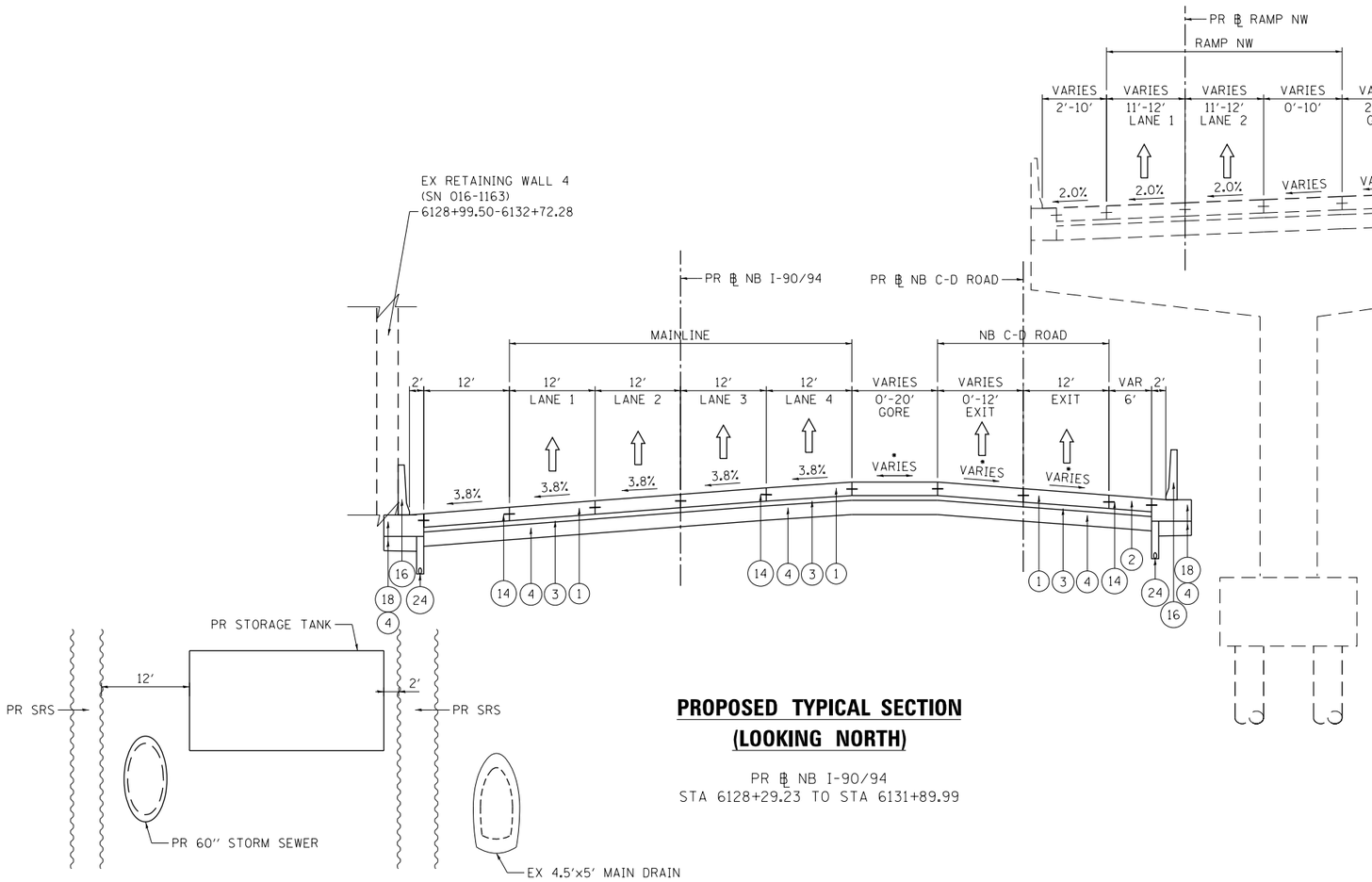
	PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 5 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	31
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6128+29.23 TO STA 6131+89.99

PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2''
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
4. AGGREGATE SUBGRADE IMPROVEMENT 12''
5. PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11''
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
9. PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9''
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4''
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4''
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6''
24. TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
25. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
26. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
27. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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TranSystems

D162A76-sht-Typical-01.dgn	DESIGNED - MKW	REVISED -
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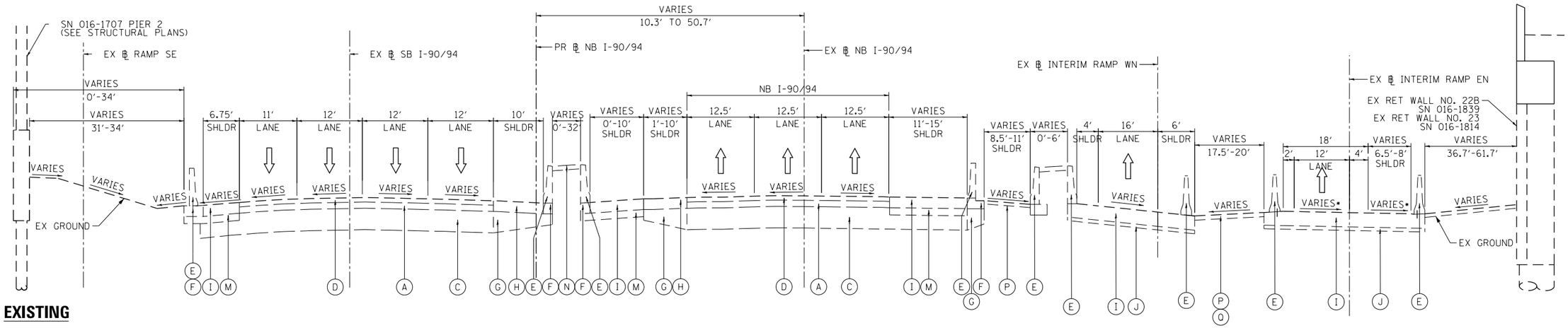
PLOT SCALE = 20.0000 ' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 6 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	32
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			

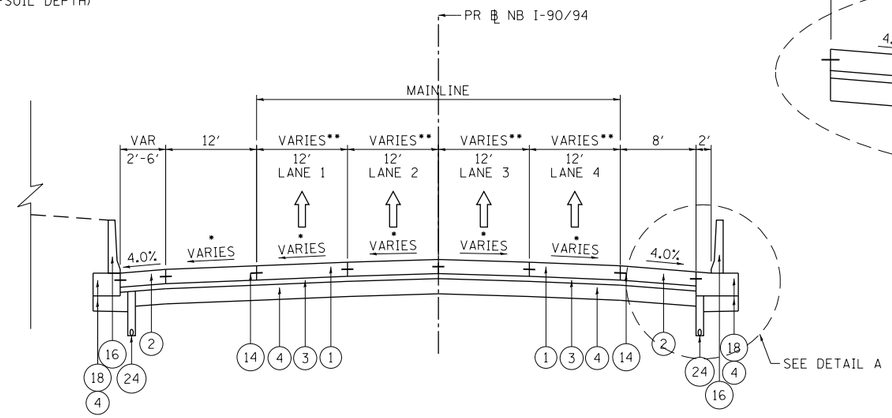


EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABLIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6138+60.62 TO STA 6147+70.77

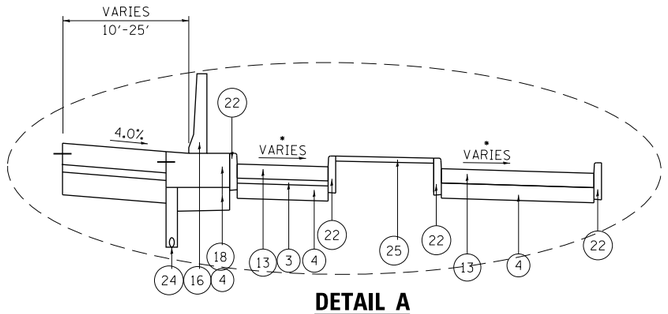


PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6131+89.99 TO STA 6139+26.76

** LANE TAPER FROM 12' TO 11'
STA 6137+60.77 TO 6139+26.76

++ MAINTENANCE LOT FROM
STA 6135+66.11 TO STA 6138+97.37



DETAIL A

MAINTENANCE LOT FROM
STA 6135+66.11 TO STA 6138+97.37

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (22) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (23) PIPE UNDERDRAINS, TYPE 2, 6"
- (24) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (25) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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	PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 7 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	33
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		

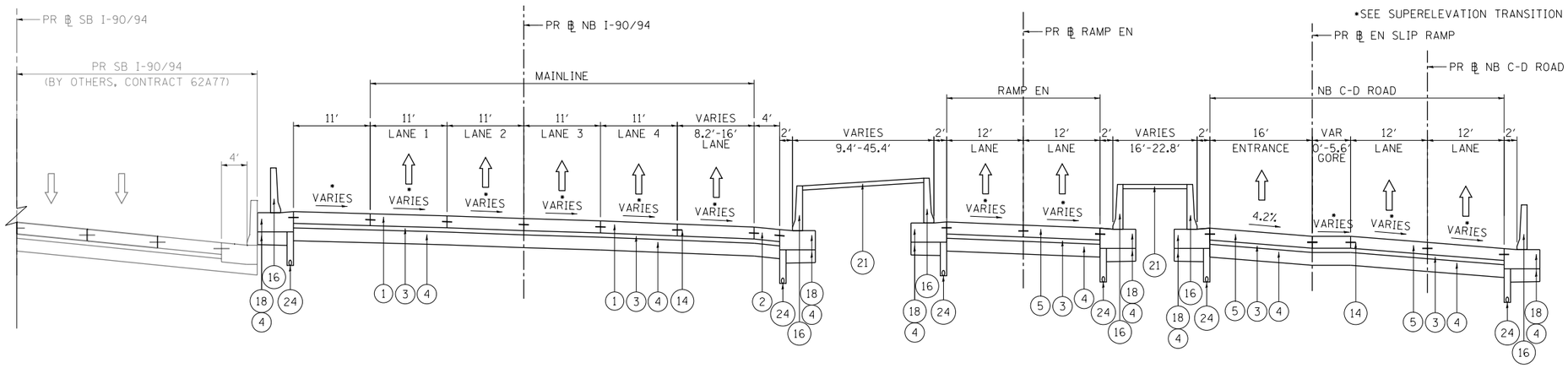
PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
4. AGGREGATE SUBGRADE IMPROVEMENT 12"
5. PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11"
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
9. PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9"
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4"
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4"
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6"
24. TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING,
25. (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6141+34.86 TO STA 6144+04.70

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 9 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	35
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		

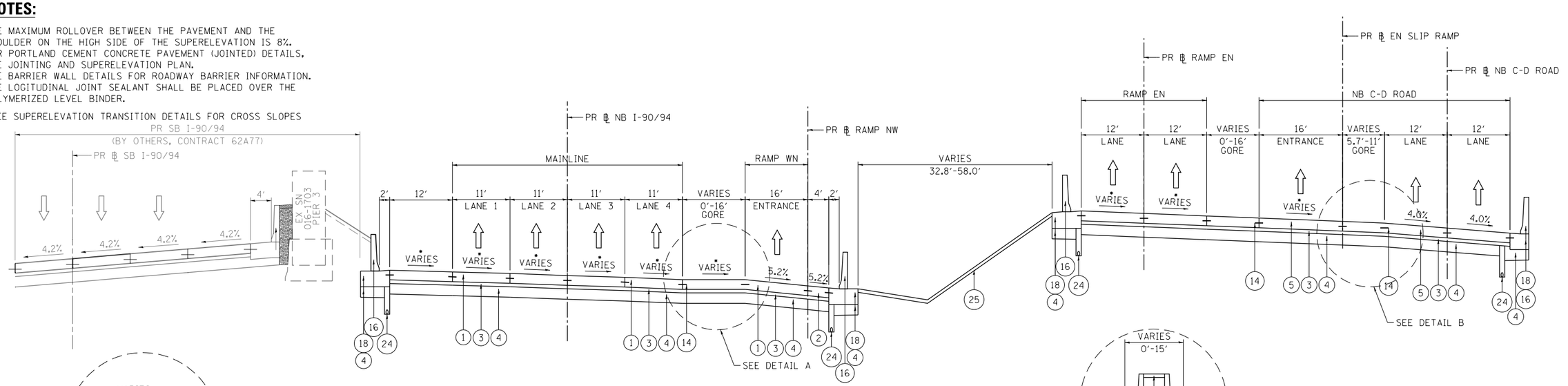
PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
4. AGGREGATE SUBGRADE IMPROVEMENT 12"
5. PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11"
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
9. PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9"
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4"
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4"
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6"
24. TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
25. 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

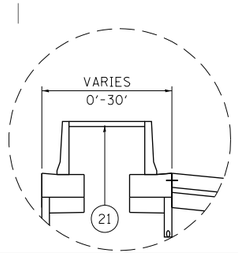
1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



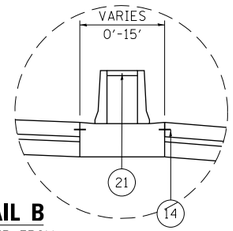
PROPOSED TYPICAL SECTION (LOOKING NORTH)

℄ PR NB I-90/94
STA 6139+26.76 TO STA 6141+34.86



DETAIL A

BARRIER FROM
STA 6139+26.76 TO STA 6139+95.15



DETAIL B

BARRIER FROM
STA 6139+26.76 TO STA 6140+04.56

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TranSystems

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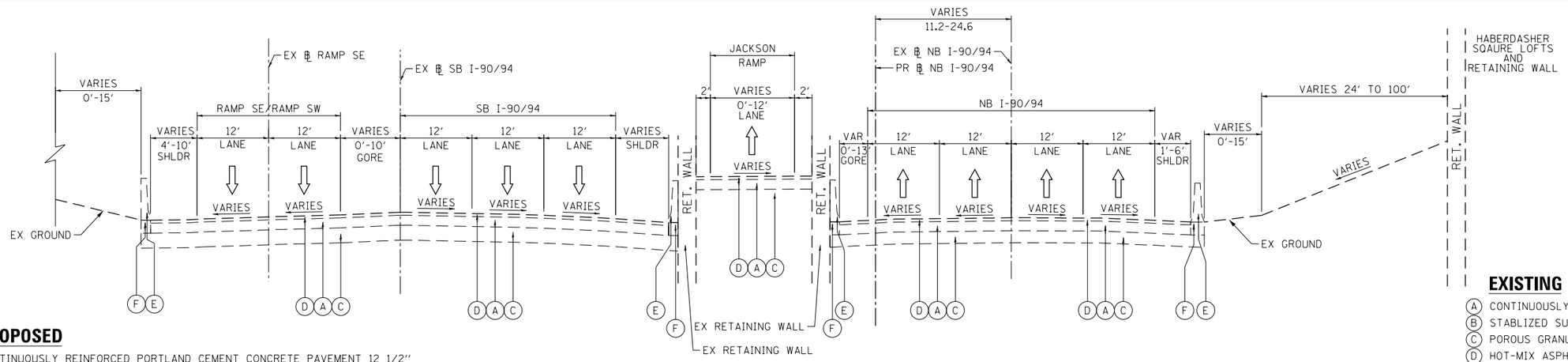
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 8 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	34
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ I-90/94
STA 6147+70.77 TO STA 6152+34.42

PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
4. AGGREGATE SUBGRADE IMPROVEMENT 12"
5. PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11"
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
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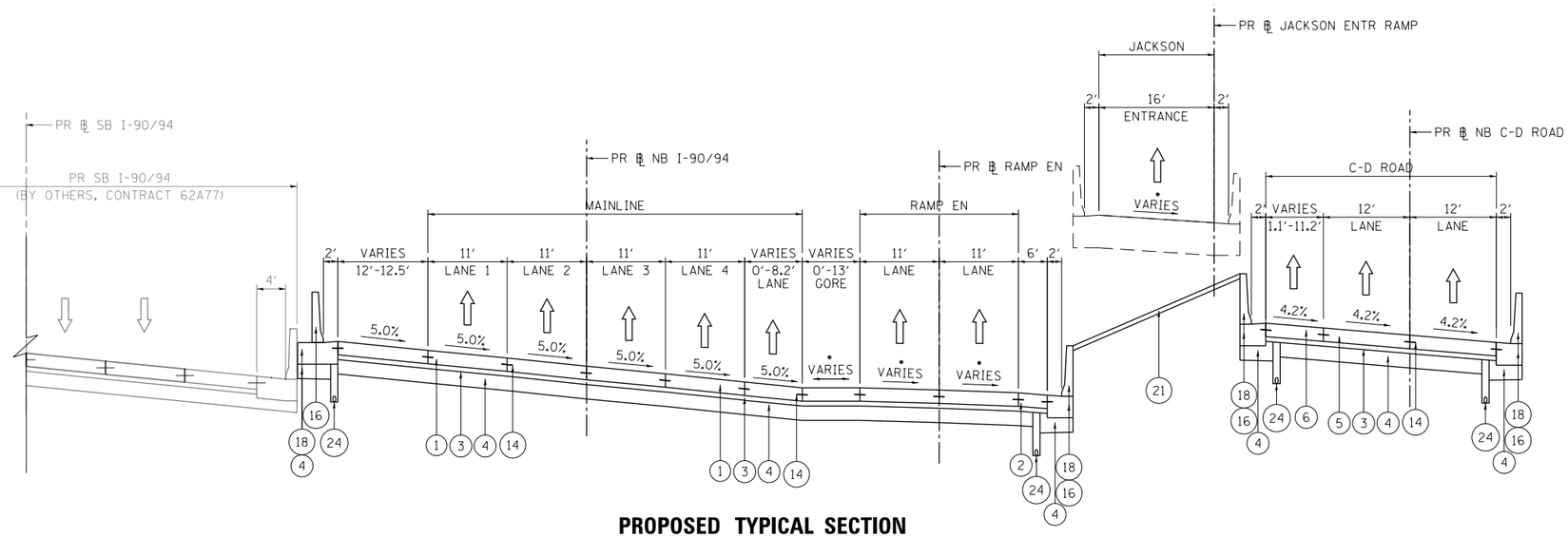
10. PORTLAND CEMENT CONCRETE PAVEMENT 9"
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4"
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4"
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6"
24. TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING,
25. (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

*SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6144+04.70 TO STA 6147+02.10

EXISTING

A. CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
B. STABLIZED SUBBASE, 4"
C. POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
D. HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
E. CONCRETE BARRIER
F. CONCRETE BARRIER BASE
G. SUBBASE GRANULAR MATERIAL, 12"
H. HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
I. TEMPORARY PAVEMENT
J. SUBBASE GRANULAR MATERIAL, 4"
K. AGGREGATE SUBGRADE 12"
L. PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
M. SUBBASE GRANULAR MATERIAL, 8"
N. CONCRETE MEDIAN SURFACE
O. PORTLAND CEMENT CONCRETE SHOULDERS, 11"
P. AGGREGATE SURFACE COURSE
Q. HOT-MIX ASPHALT MEDIAN SURFACE, 4"
R. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
S. GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

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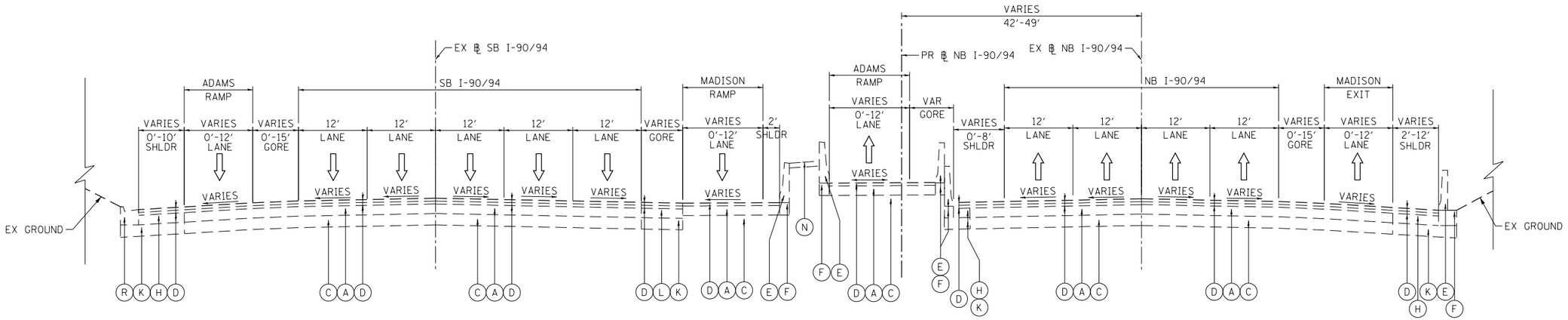
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JMG	REVISED -
	PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 10 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	36
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ I-90/94
STA 6152+34.42 TO STA 6155+68.09

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7'' TO 13''
- (B) STABLIZED SUBBASE, 4''
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0'' TO 36''
- (D) HOT-MIX ASPHALT PAVEMENT, 3'' TO 7''
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12''
- (H) HOT-MIX ASPHALT SHOULDERS, 10'' TO 13''
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4''
- (K) AGGREGATE SUBGRADE 12''
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7'' TO 10''
- (M) SUBBASE GRANULAR MATERIAL, 8''
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11''
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4''
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9'' TOPSOIL DEPTH)

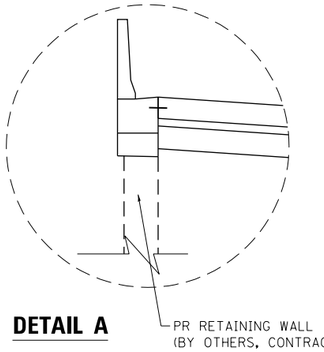
PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2''
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
4. AGGREGATE SUBGRADE IMPROVEMENT 12''
5. PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11''
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
9. PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9''
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID ITEM PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4''
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4''
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6''
24. TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
25.
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''

NOTES:

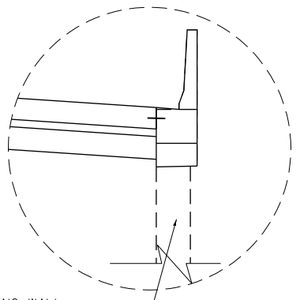
1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

*SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



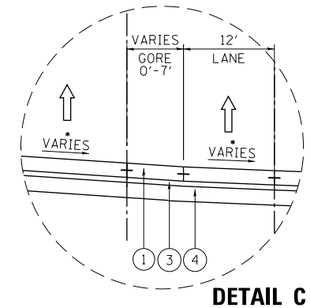
DETAIL A

RETAINING WALL FROM
STA 6147+98.72 TO STA 6148+95.47



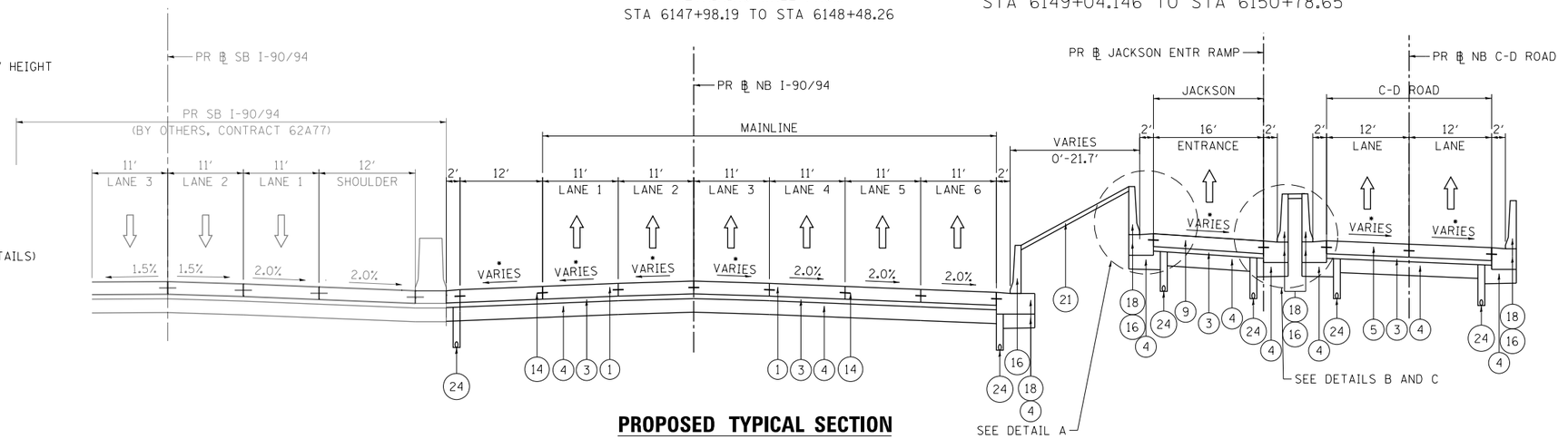
DETAIL B

RETAINING WALL FROM
STA 6147+98.19 TO STA 6148+48.26



DETAIL C

PAVED GORE FROM
STA 6149+04.146 TO STA 6150+78.65



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6147+02.10 TO STA 6150+49.69

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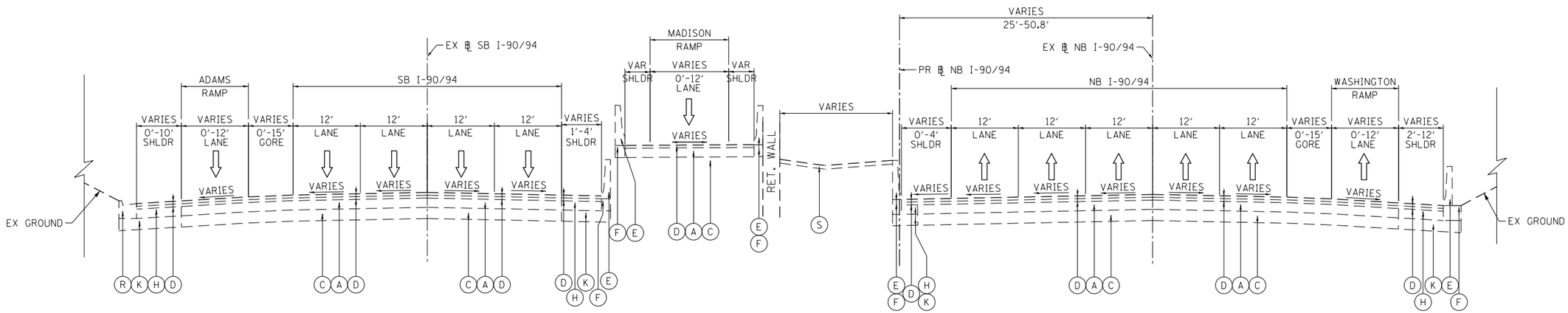
PLOT SCALE = 20.0000 ' / in.	CHECKED - JMG	REVISED -	
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -	

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 11 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	37
		CONTRACT NO. 62A76		
		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ I-90/94
STA 6155+68.09 TO STA 6159+43.99

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7'' TO 13''
- (B) STABLIZED SUBBASE, 4''
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0'' TO 36''
- (D) HOT-MIX ASPHALT PAVEMENT, 3'' TO 7''
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12''
- (H) HOT-MIX ASPHALT SHOULDERS, 10'' TO 13''
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4''
- (K) AGGREGATE SUBGRADE 12''
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7'' TO 10''
- (M) SUBBASE GRANULAR MATERIAL, 8''
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11''
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4''
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9'' TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2''
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12''
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11''
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9''
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4''
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4''
- (22) CONCRETE CURB, TYPE B
- (22) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (23) PIPE UNDERDRAINS, TYPE 2, 6''
- (24) TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING,
- (25) (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''

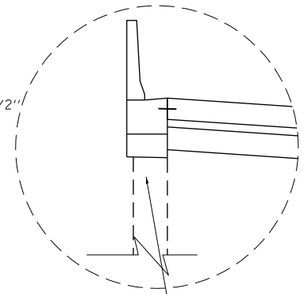
NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

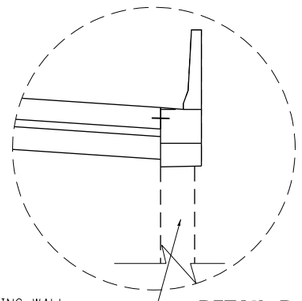
DETAIL A

RETAINING WALL FROM
STA 6152+82.14 TO STA 6153+48.99



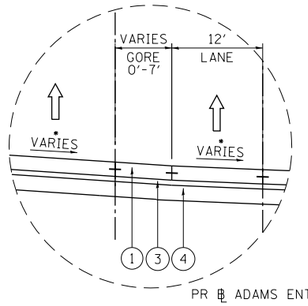
DETAIL B

RETAINING WALL FROM
STA 6152+81.27 TO STA 6154+02.57



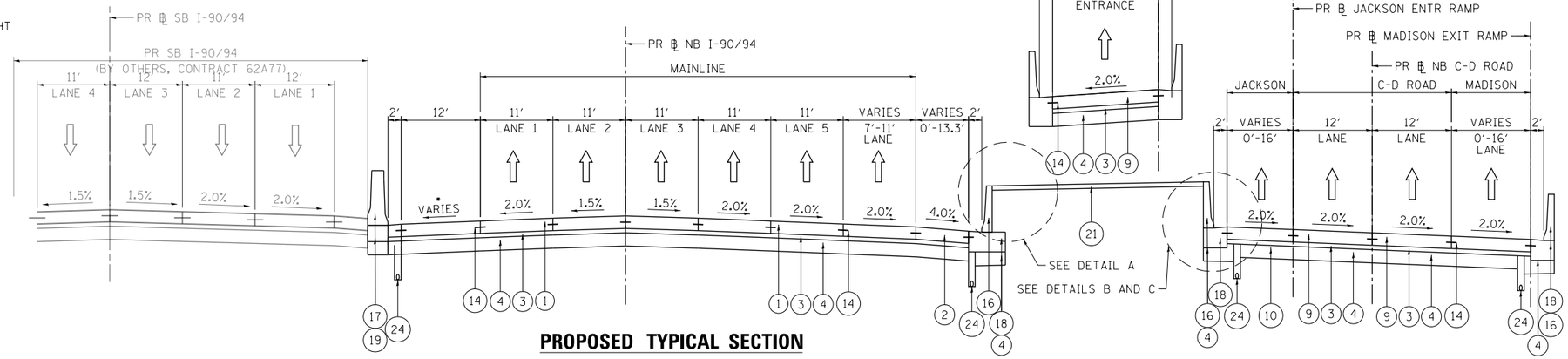
DETAIL C

PAVED GORE FROM
STA 6154+76.30 TO STA 6156+45.94



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6150+49.69 TO STA 6156+67.37



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TranSystems

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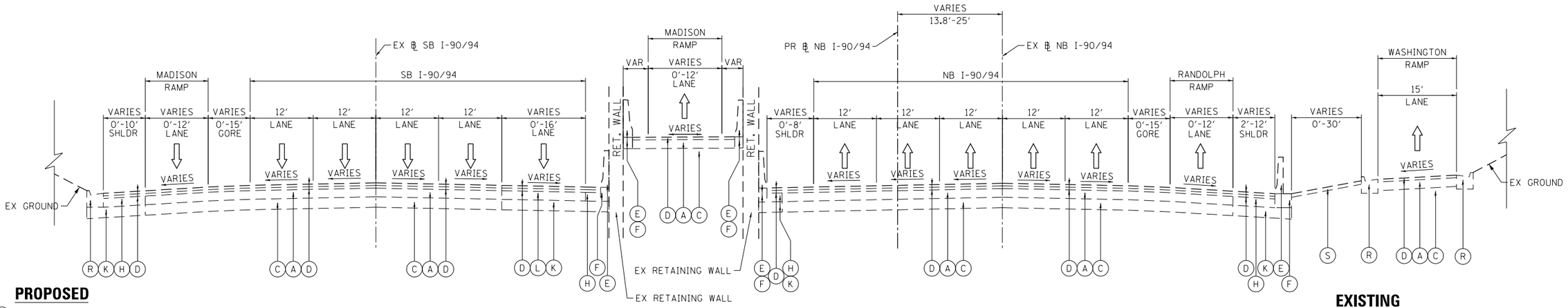
PLOT SCALE = 20.0000 '/ in.	CHECKED - JMG	REVISED -
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 12 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	38
		CONTRACT NO. 62A76		
		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION
(LOOKING NORTH)

PR ℄ I-90/94
STA 6159+43.99 TO STA 6163+97.95

PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
4. AGGREGATE SUBGRADE IMPROVEMENT 12"
5. PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11"
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
9. PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9"
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4"
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4"
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6"
24. TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING,
25. (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

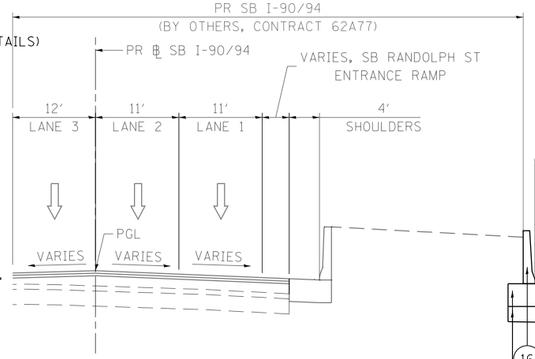
NOTES:

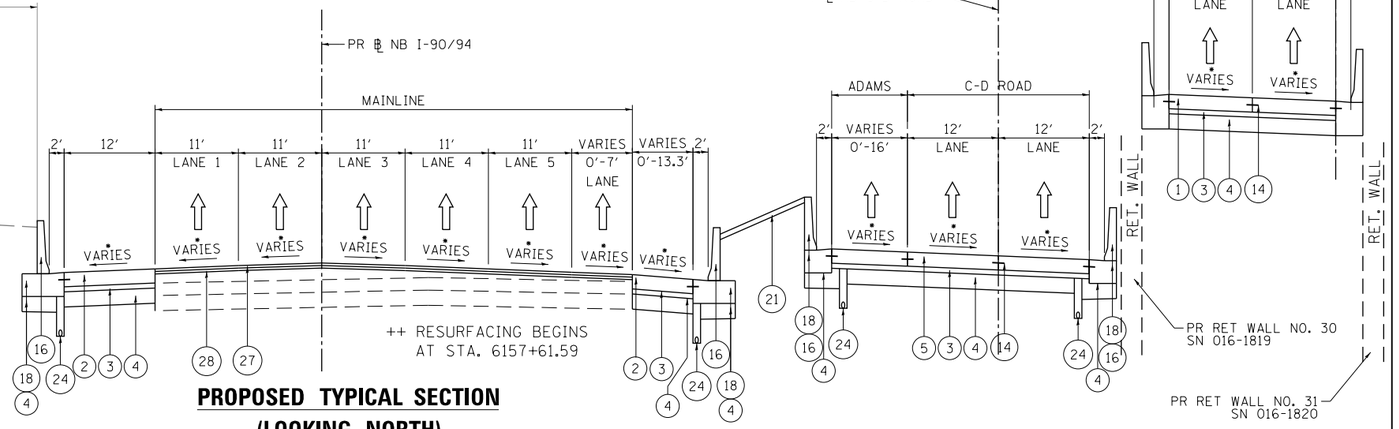
1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABLIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)





PROPOSED TYPICAL SECTION
(LOOKING NORTH)

PR ℄ NB I-90/94
STA 6159+30.00 TO STA 6160+06.86

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PLOT SCALE = 20.0000 ' / in.	CHECKED - JMG	REVISED -	
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -	

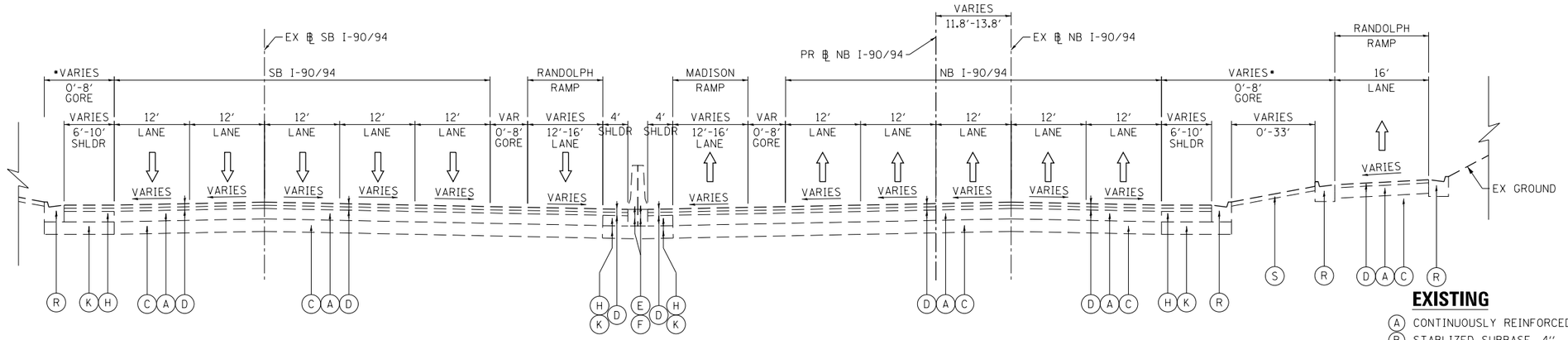
TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 13 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	39
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION (LOOKING NORTH)

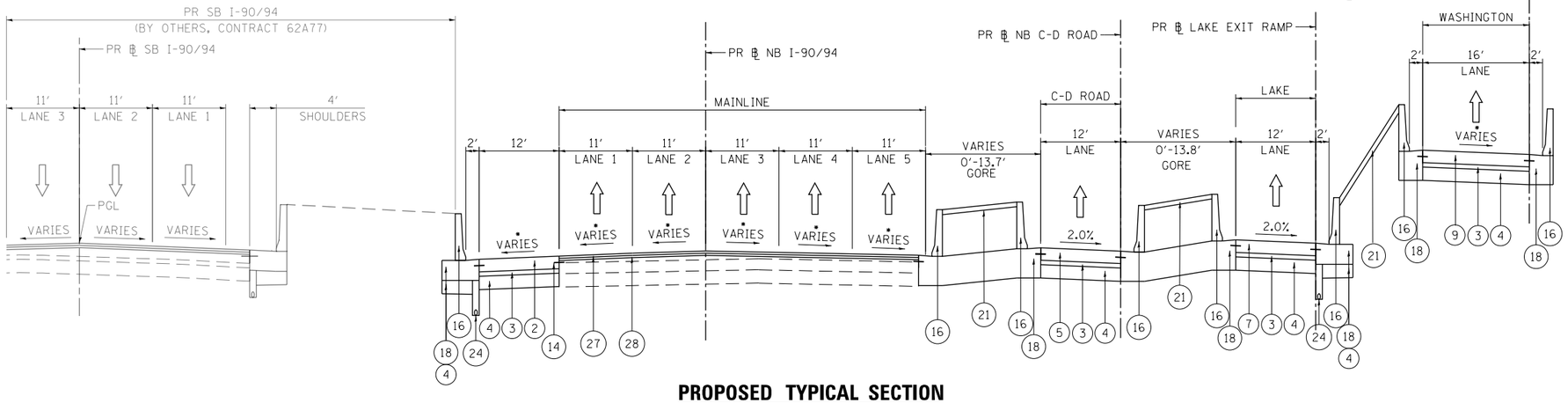
PR ℄ I-90/94
STA 6163+97.95 TO STA 6166+31.75

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7'' TO 13''
- (B) STABLIZED SUBBASE, 4''
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0'' TO 36''
- (D) HOT-MIX ASPHALT PAVEMENT, 3'' TO 7''
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12''
- (H) HOT-MIX ASPHALT SHOULDERS, 10'' TO 13''
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4''
- (K) AGGREGATE SUBGRADE 12''
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7'' TO 10''
- (M) SUBBASE GRANULAR MATERIAL, 8''
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11''
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4''
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9'' TOPSOIL DEPTH)

PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2''
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
4. AGGREGATE SUBGRADE IMPROVEMENT 12''
5. PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11''
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
9. PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9''
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4''
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4''
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6''
24. TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6160+06.86 TO STA 6164+05.78

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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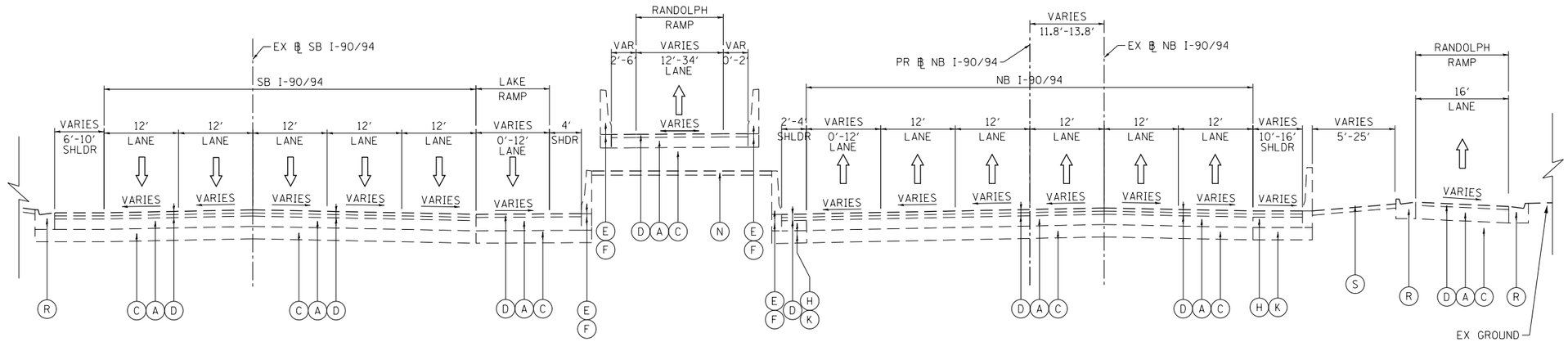
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 14 OF 17 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	40
		CONTRACT NO. 62A76		
		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ I-90/94
STA 6168+83.44 TO STA 6170+39.66

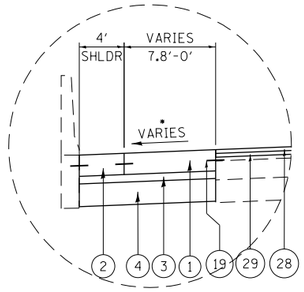
PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
4. AGGREGATE SUBGRADE IMPROVEMENT 12"
5. PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11"
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
9. PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9"
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4"
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4"
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6"
24. TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING,
25. (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

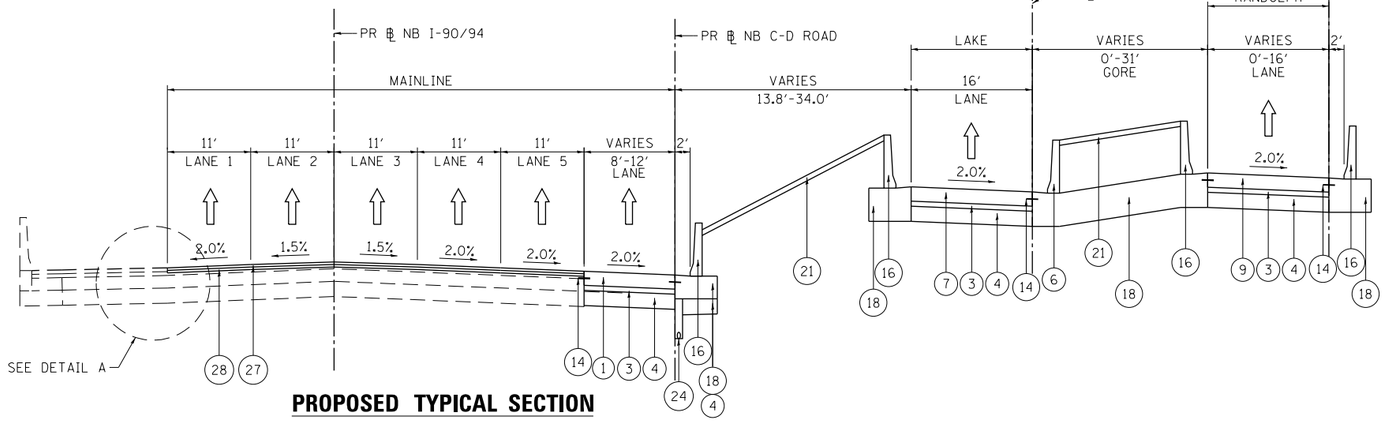
1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



DETAIL A

FULL DEPTH PAVEMENT FROM
STA 6168+79.46 TO STA 6170+90.31



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6164+05.78 TO STA 6170+41.66

EXISTING

A. CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
B. STABLIZED SUBBASE, 4"
C. POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
D. HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
E. CONCRETE BARRIER
F. CONCRETE BARRIER BASE
G. SUBBASE GRANULAR MATERIAL, 12"
H. HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
I. TEMPORARY PAVEMENT
J. SUBBASE GRANULAR MATERIAL, 4"
K. AGGREGATE SUBGRADE 12"
L. PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
M. SUBBASE GRANULAR MATERIAL, 8"
N. CONCRETE MEDIAN SURFACE
O. PORTLAND CEMENT CONCRETE SHOULDERS, 11"
P. AGGREGATE SURFACE COURSE
Q. HOT-MIX ASPHALT MEDIAN SURFACE, 4"
R. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
S. GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

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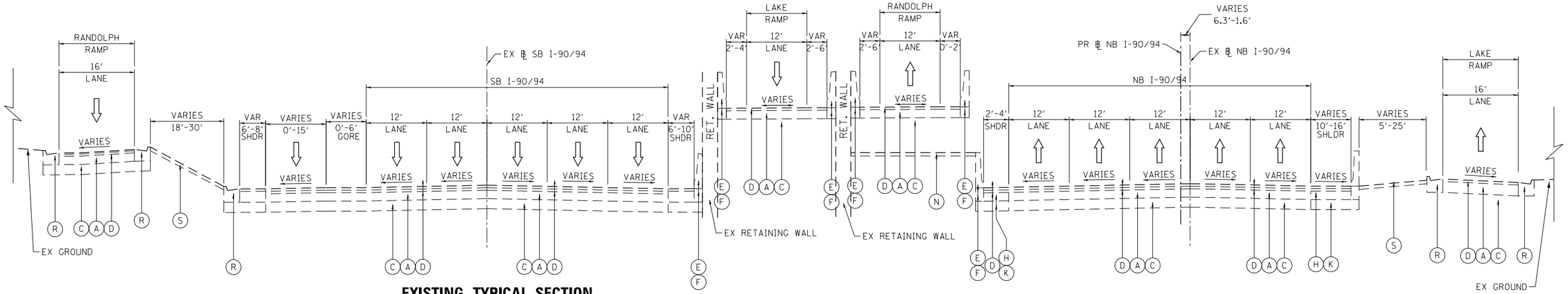
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 15 OF 17 SHEETS | STA. | TO STA.

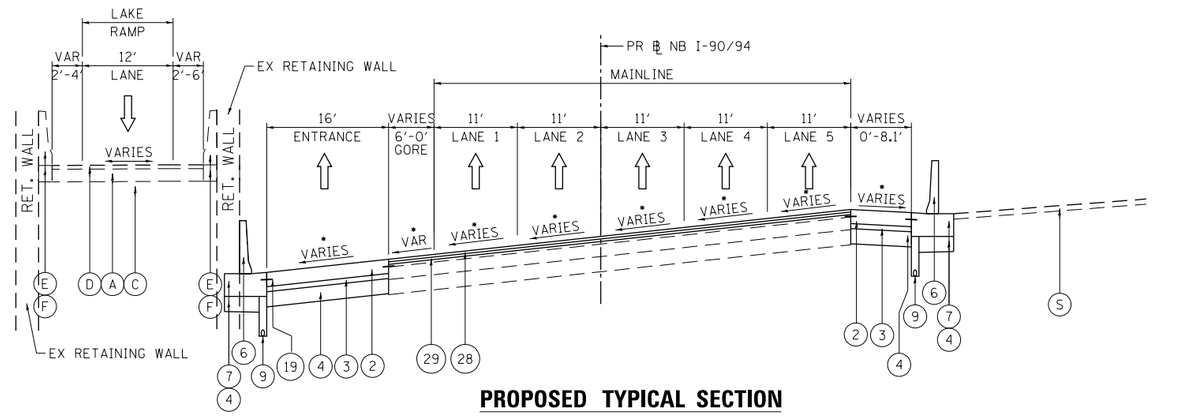
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	41

CONTRACT NO. 62A76
ILLINOIS FED. AID PROJECT



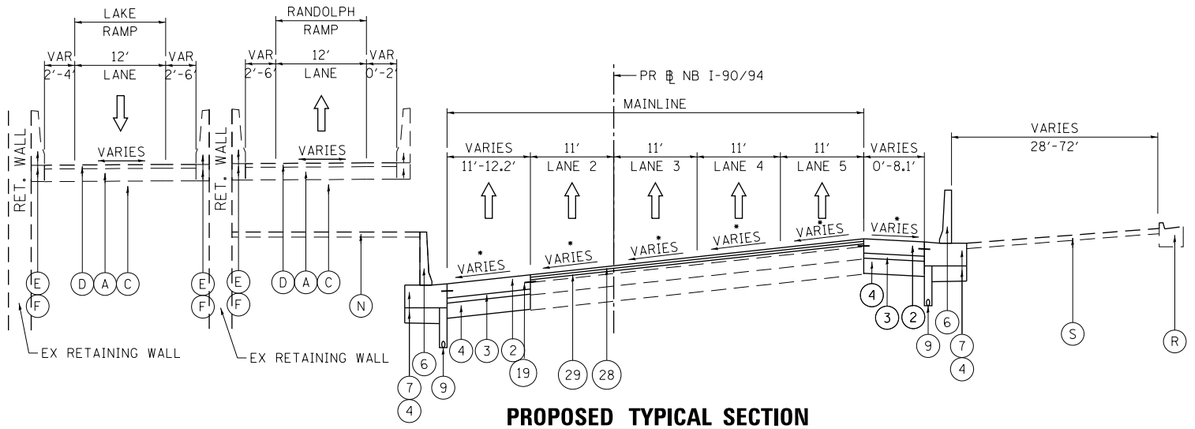
EXISTING TYPICAL SECTION (LOOKING NORTH)

PR ℄ I-90/94
STA 6170+39.66 TO STA 6175+07.63



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6173+02.31 TO STA 6175+00.00



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR ℄ NB I-90/94
STA 6170+41.66 TO STA 6173+02.31

PROPOSED

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2
2. PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2''
3. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4''
4. AGGREGATE SUBGRADE IMPROVEMENT 12''
5. PORTLAND CEMENT CONCRETE PAVEMENT 11'' (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS 11''
7. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4'' (JOINTED)
8. PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4''
9. PORTLAND CEMENT CONCRETE PAVEMENT 9'' (JOINTED)
10. PORTLAND CEMENT CONCRETE PAVEMENT 9''
11. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4'' (JOINTED)
12. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4''
13. PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2'' (JOINTED)
14. TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
15. SUBBASE GRANULAR MATERIAL, TYPE C 4''
16. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
17. CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42'' HEIGHT
18. CONCRETE BARRIER BASE
19. CONCRETE BARRIER BASE (SPECIAL NO. 1)
20. CONCRETE GUTTER TYPE A
21. CONCRETE MEDIAN SURFACE, 4''
22. CONCRETE CURB, TYPE B
22. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
23. PIPE UNDERDRAINS, TYPE 2, 6''
24. TOPSOIL FURNISH AND PLACE, 4'' AND SEEDING OR SODDING,
25. (SEE EROSION CONTROL PLANS) 34
26. TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
27. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2''
28. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2''

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7'' TO 13''
- (B) STABLIZED SUBBASE, 4''
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0'' TO 36''
- (D) HOT-MIX ASPHALT PAVEMENT, 3'' TO 7''
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12''
- (H) HOT-MIX ASPHALT SHOULDERS, 10'' TO 13''
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4''
- (K) AGGREGATE SUBGRADE 12''
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7'' TO 10''
- (M) SUBBASE GRANULAR MATERIAL, 8''
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11''
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4''
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9'' TOPSOIL DEPTH)

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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TranSystems

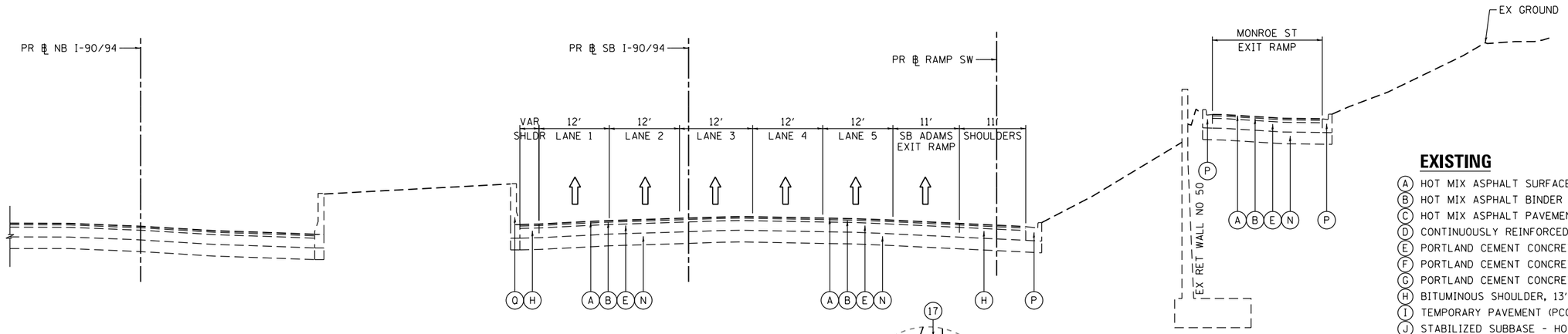
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-90/94

SCALE: NONE | SHEET 16 OF 17 SHEETS | STA. | TO STA.

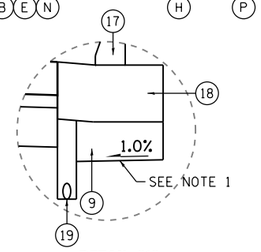
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	42
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			

- I-90/94 SB and Connecting Ramps



EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

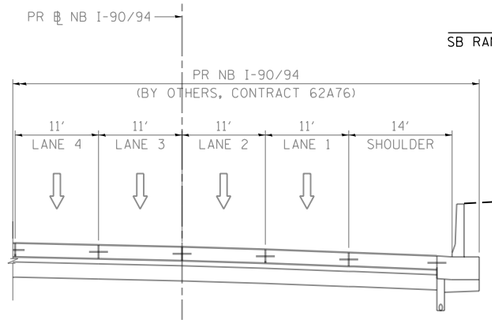
PR ℄ SB I-90/94
STA 6201+18.73 TO STA 6204+00.00

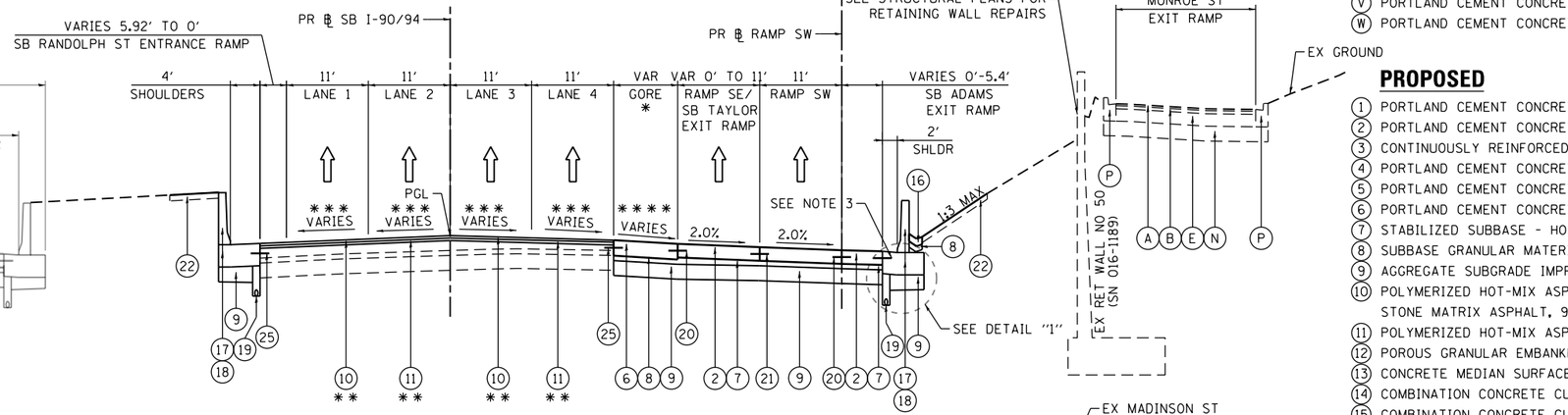


DETAIL "1"
SCALE: NONE

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5″
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5″
- (C) HOT MIX ASPHALT PAVEMENT, 5″ TO 11″
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13″
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10″
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9″
- (H) BITUMINOUS SHOULDER, 13″
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8″
- (M) SUBBASE GRANULAR MATERIAL, 12″
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0″ TO 30″
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4″ TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11″





PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

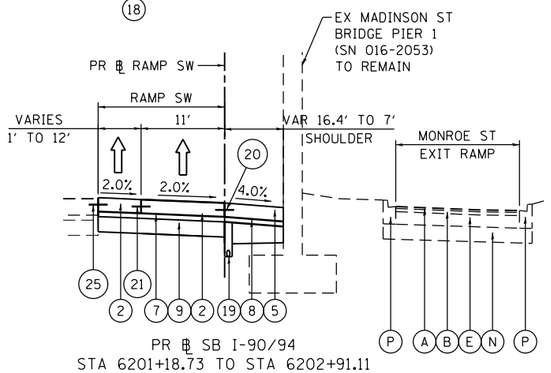
PR ℄ SB I-90/94
STA 6201+18.73 TO STA 6204+00.00

* GORE VARIES FROM 1′ TO 8.6′
STA 6202+91.11 TO STA 6204+00.00
(PR ℄ SB I-90/94)

** STA 6202+91.11 TO STA 6204+00.00
(PR ℄ SB I-90/94)

*** SEE NOTE 4.

**** SEE NOTE 5.



PROPOSED

1. PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
2. PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
3. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½″
4. PORTLAND CEMENT CONCRETE PAVEMENT 12½″ (JOINTED)
5. PORTLAND CEMENT CONCRETE SHOULDERS 11″
6. PORTLAND CEMENT CONCRETE SHOULDERS 12½″
7. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
8. SUBBASE GRANULAR MATERIAL, TYPE B 4″
9. AGGREGATE SUBGRADE IMPROVEMENT 12″
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾″
11. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼″
12. POROUS GRANULAR EMBANKMENT
13. CONCRETE MEDIAN SURFACE, 4″
14. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
15. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
16. CONCRETE GUTTER, TYPE B
17. CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
18. CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
19. PIPE UNDERDRAINS 4″ OR 6″ (SEE DRAINAGE PLANS)
20. #6 TIE BARS, 24″ LONG AT 36″ C-C
(INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
21. #6 TIE BARS, 30″ LONG AT 36″ C-C
(INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
22. TOPSOIL FURNISH AND PLACE, 4″ AND SEEDING OR SODDING
(SEE EROSION CONTROL PLANS)
23. TOPSOIL FURNISH AND PLACE, 24″ AND SEEDING
24. ANCHOR SLAB (SEE STRUCTURAL PLANS)
25. DRILL AND GROUT #8 TIE BARS
26. CONCRETE CURB, TYPE B
27. PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13″

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12″.
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01128.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT SCALE = 20.0000 ′ / in.	CHECKED - MJE	REVISED -
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 1 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	33
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		

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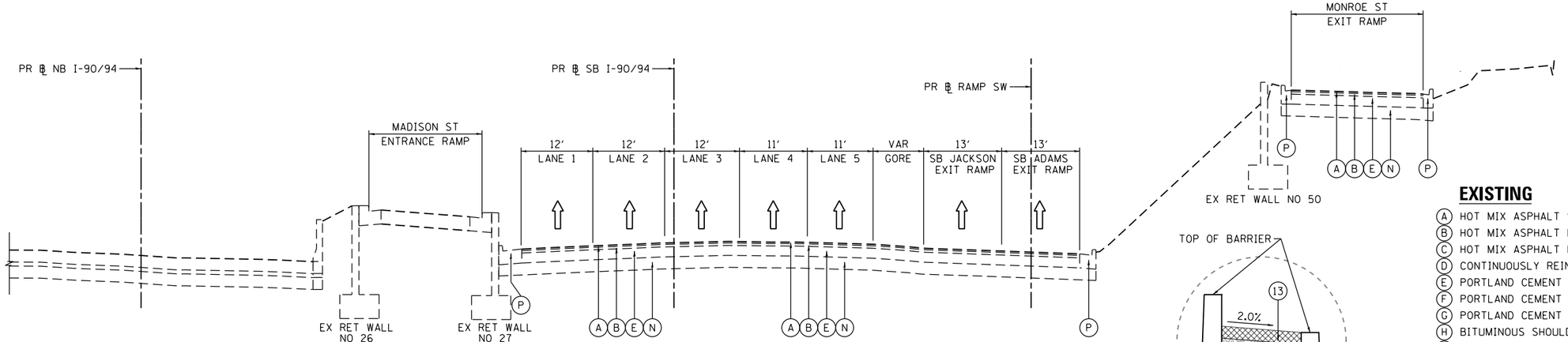
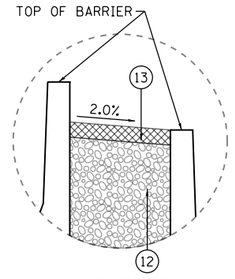


EXISTING TYPICAL SECTION
SB I–90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6204+00.00 TO STA 6206+64.78



DETAIL 2"
SCALE: NONE

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED TYPICAL SECTION
SB I–90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6204+00.00 TO STA 6206+64.78

* APPROACH SLAB STA 8562+04.40 TO STA 8563+33.33
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
STA 8563+33.33 TO STA 8563+48.33
(PR ℄ SB MADISON ST ENTRANCE RAMP)

** SEE NOTE 4.

*** (13) BEGINS AT STA 6204+91.52

**** (16)(8) BEGIN AT STA 6202+12.22 AND END AT STA 6206+43.41

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C
  (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C
  (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING
  (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01128.

AECOM
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PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I–90/94

SCALE: NONE | SHEET 2 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	34
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		

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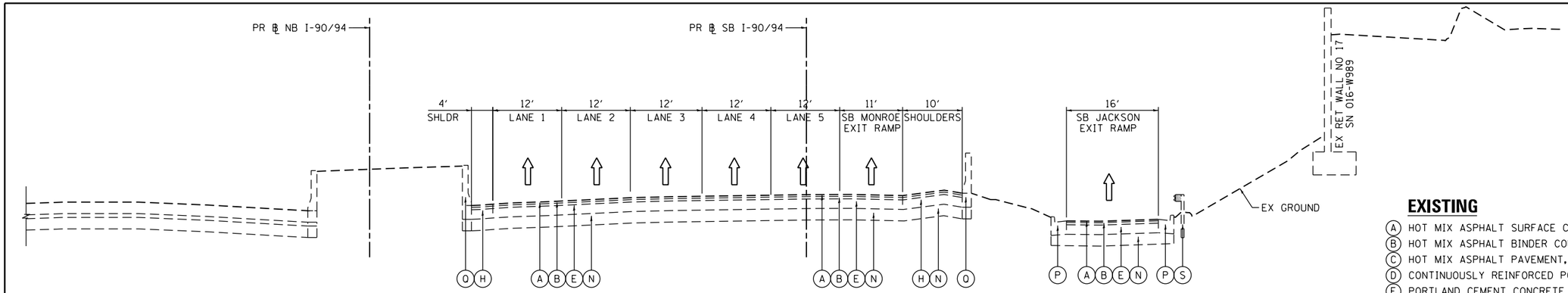
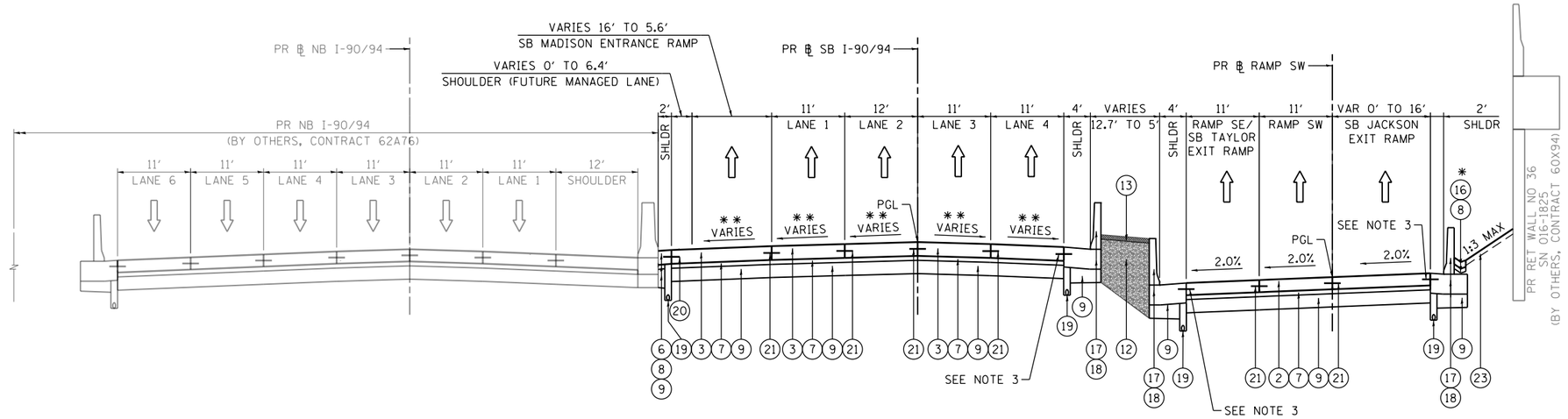


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6206+64.78 TO STA 6212+15.64



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6206+64.78 TO STA 6212+15.64

* (16)(8) BEGIN AT STA 6207+31.80 AND END AT STA 6210+74.46

** SEE NOTE 4.

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS GGD01128.

EXISTING

(A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
(B) HOT MIX ASPHALT BINDER COURSE, 2.5"
(C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
(D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
(E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
(F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
(G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
(H) BITUMINOUS SHOULDER, 13"
(I) TEMPORARY PAVEMENT (PCC/HMA)
(J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
(K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
(L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
(M) SUBBASE GRANULAR MATERIAL, 12"
(N) AGGREGATE SUBGRADE IMPROVEMENT 12"
(O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
(P) COMBINATION CONCRETE CURB AND GUTTER
(Q) CONCRETE BARRIER
(R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
(S) GUARDRAIL
(T) PIPE UNDERDRAINS
(U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
(V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
(W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

(1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
(2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
(3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
(4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
(5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
(6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
(7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
(8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
(9) AGGREGATE SUBGRADE IMPROVEMENT 12"
(10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
(11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
(12) POROUS GRANULAR EMBANKMENT
(13) CONCRETE MEDIAN SURFACE, 4"
(14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
(16) CONCRETE GUTTER, TYPE B
(17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
(18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
(19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
(20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
(21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
(22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
(23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
(24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
(25) DRILL AND GROUT #8 TIE BARS
(26) CONCRETE CURB, TYPE B
(27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

AECOM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 3 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	35
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		

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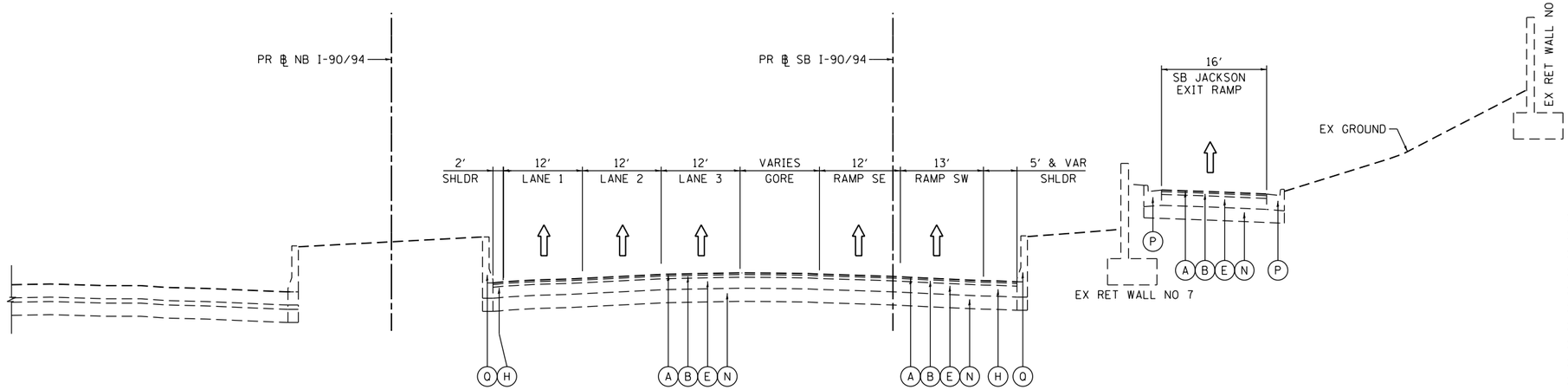
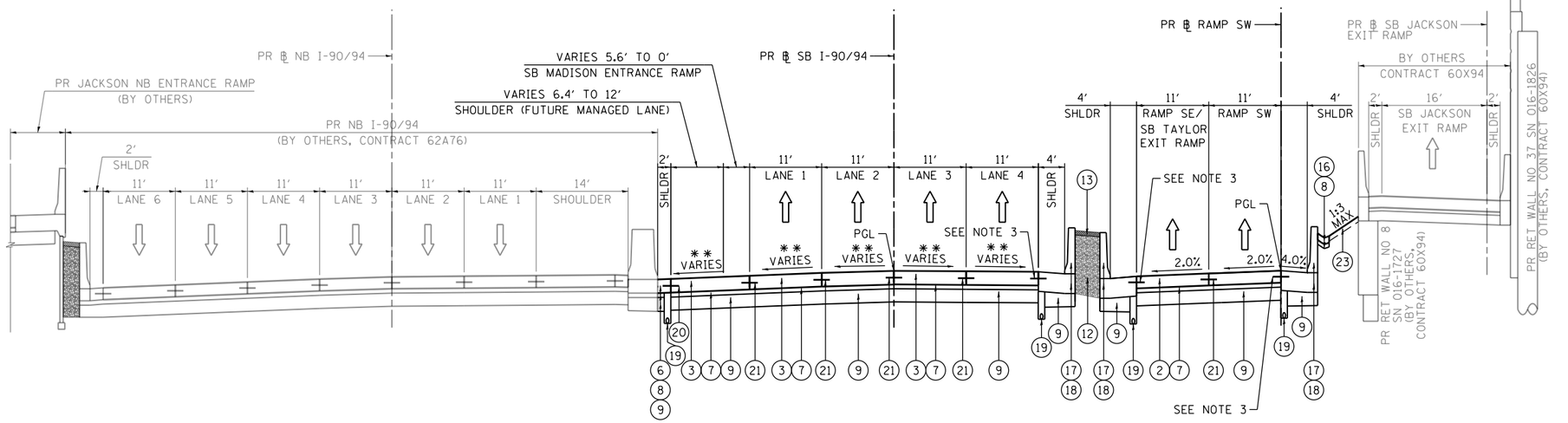


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

EX ℄ SB I-90/94
STA 6212+15.64 TO STA 6216+52.70



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6212+15.64 TO STA 6216+52.70

** SEE NOTE 4.

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01 128 .

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
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- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
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- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
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- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 4 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	36
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

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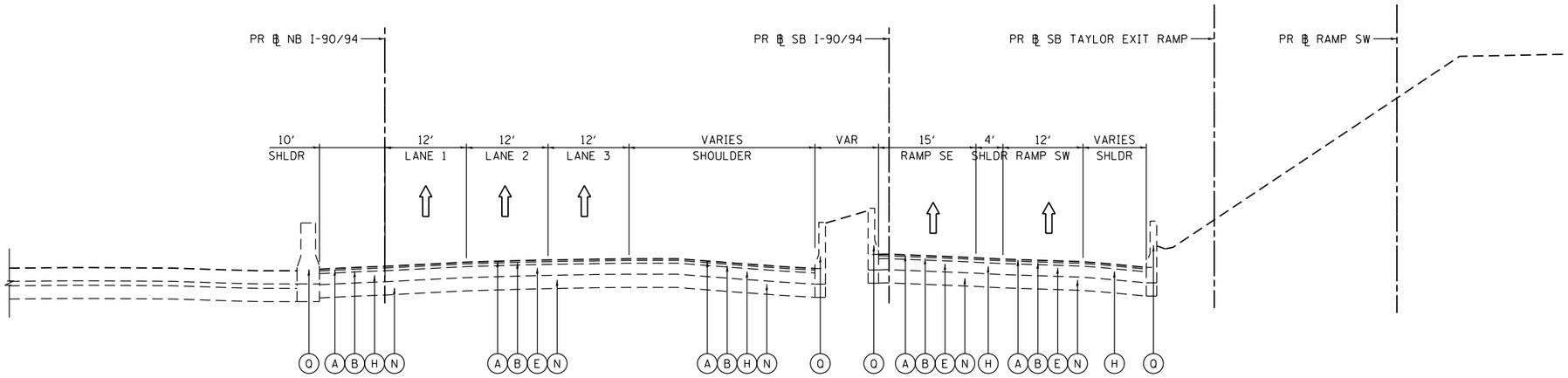
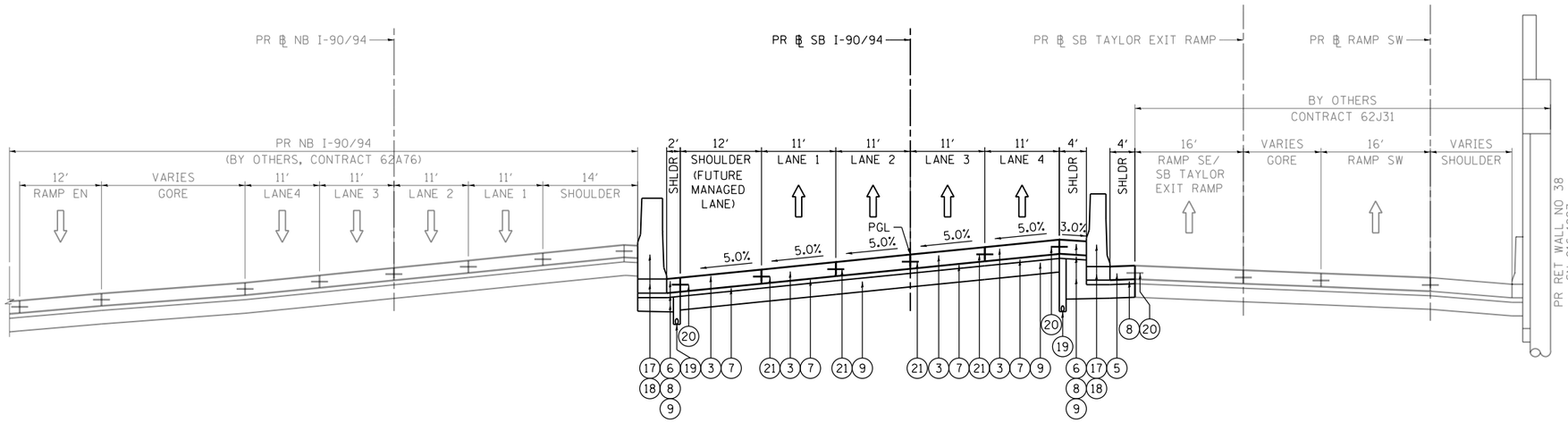


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6216+52.70 TO STA 6218+37.53



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6216+52.70 TO STA 6218+37.53

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12″.
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01 128 .

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5″
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5″
- (C) HOT MIX ASPHALT PAVEMENT, 5″ TO 11″
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13″
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10″
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9″
- (H) BITUMINOUS SHOULDER, 13″
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8″
- (M) SUBBASE GRANULAR MATERIAL, 12″
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0″ TO 30″
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4″ TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11″

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½″
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½″ (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11″
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½″
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX ″F″, N80, 1¾″
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼″
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4″
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4″ OR 6″ (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24″ LONG AT 36″ C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30″ LONG AT 36″ C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4″ AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24″ AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13″

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AECOM
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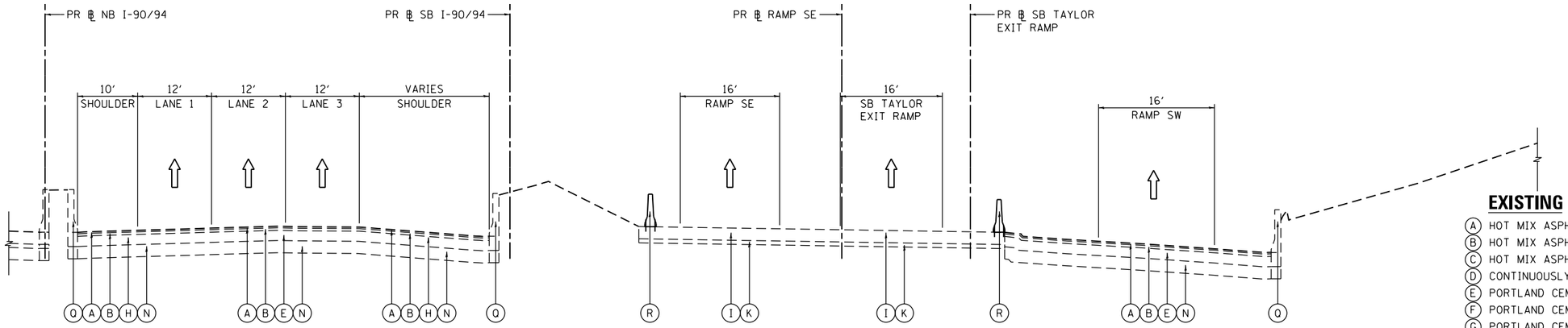
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

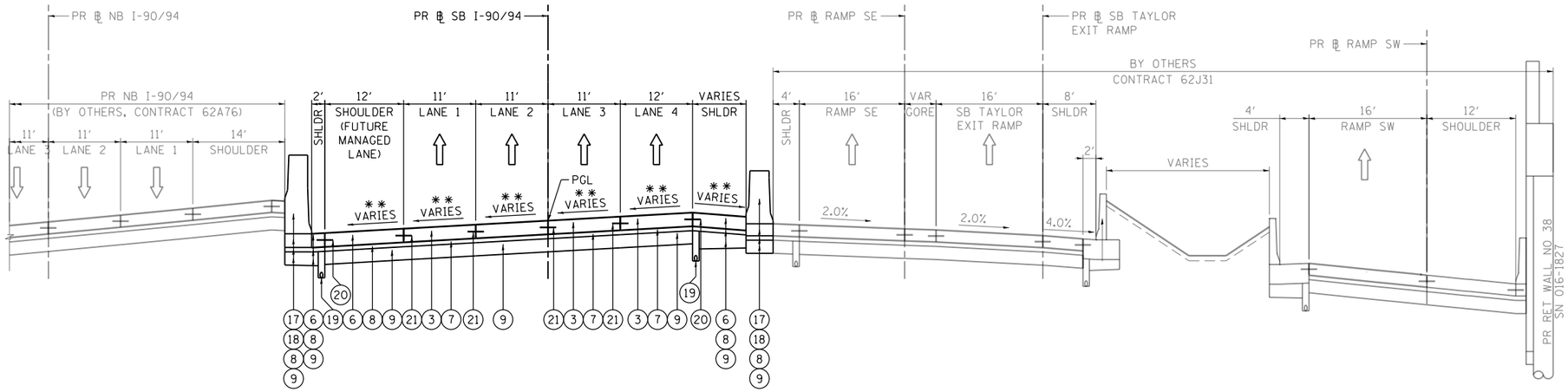
SCALE: NONE | SHEET 5 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	37
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6218+37.53 TO STA 6220+47.18



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6218+37.53 TO STA 6220+47.18

** SEE SUPERELEVATION DETAILS SHEET 105

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12″.
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01 128 .

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5″
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5″
- (C) HOT MIX ASPHALT PAVEMENT, 5″ TO 11″
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13″
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10″
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9″
- (H) BITUMINOUS SHOULDER, 13″
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8″
- (M) SUBBASE GRANULAR MATERIAL, 12″
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0″ TO 30″
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4″ TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11″

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½″
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½″ (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11″
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½″
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX ″F″, N80, 1¾″
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼″
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4″
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4″ OR 6″ (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24″ LONG AT 36″ C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30″ LONG AT 36″ C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4″ AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24″ AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13″

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PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 6 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	38
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		

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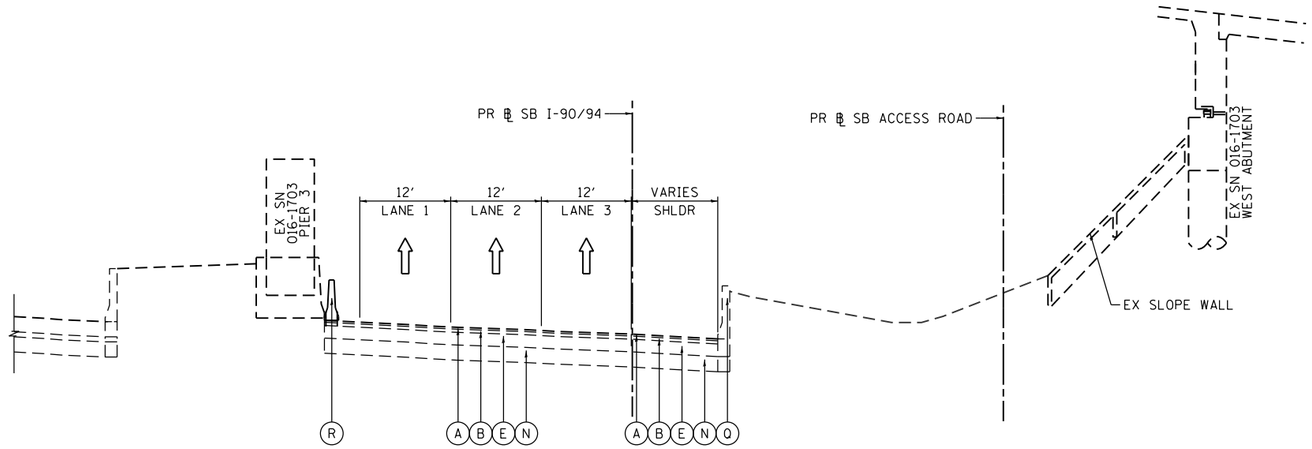
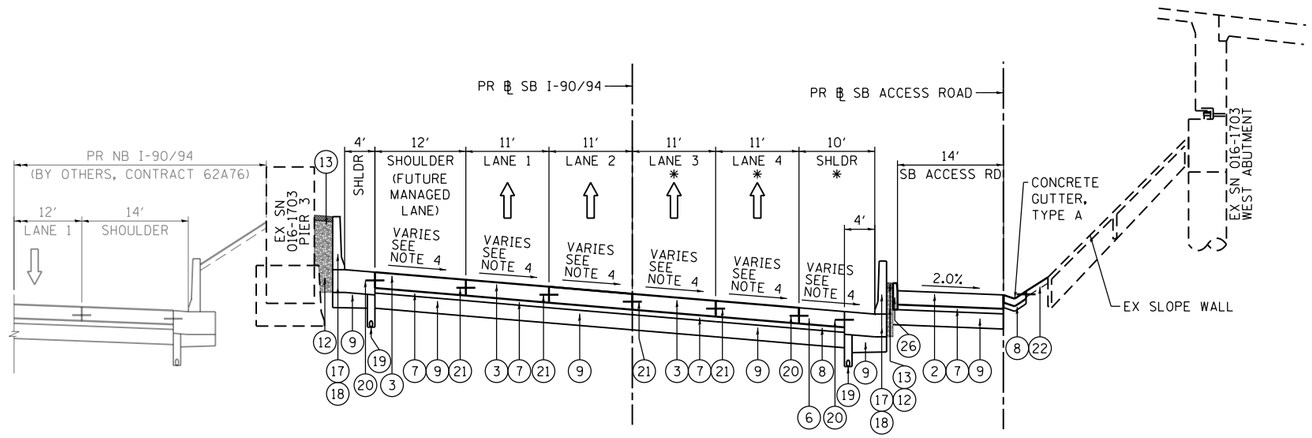


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6220+47.18 TO STA 6229+11.25



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6220+47.18 TO STA 6229+11.25

* PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
STA 6224+31.78 TO STA STA 6224+49.02
STRUCTURAL SLAB (SN 016-D006)
STA 6224+49.02 TO STA 6225+05.31
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
STA 6225+05.31 TO STA 6225+20.31

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01128.

EXISTING

(A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
(B) HOT MIX ASPHALT BINDER COURSE, 2.5"
(C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
(D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
(E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
(F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
(G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
(H) BITUMINOUS SHOULDER, 13"
(I) TEMPORARY PAVEMENT (PCC/HMA)
(J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
(K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
(L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
(M) SUBBASE GRANULAR MATERIAL, 12"
(N) AGGREGATE SUBGRADE IMPROVEMENT 12"
(O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
(P) COMBINATION CONCRETE CURB AND GUTTER
(Q) CONCRETE BARRIER
(R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
(S) GUARDRAIL
(T) PIPE UNDERDRAINS
(U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
(V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
(W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

(1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
(2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
(3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
(4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
(5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
(6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
(7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
(8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
(9) AGGREGATE SUBGRADE IMPROVEMENT 12"
(10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
(11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
(12) POROUS GRANULAR EMBANKMENT
(13) CONCRETE MEDIAN SURFACE, 4"
(14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
(16) CONCRETE GUTTER, TYPE B
(17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
(18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
(19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
(20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
(21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
(22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
(23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
(24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
(25) DRILL AND GROUT #8 TIE BARS
(26) CONCRETE CURB, TYPE B
(27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

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PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 7 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	39
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		

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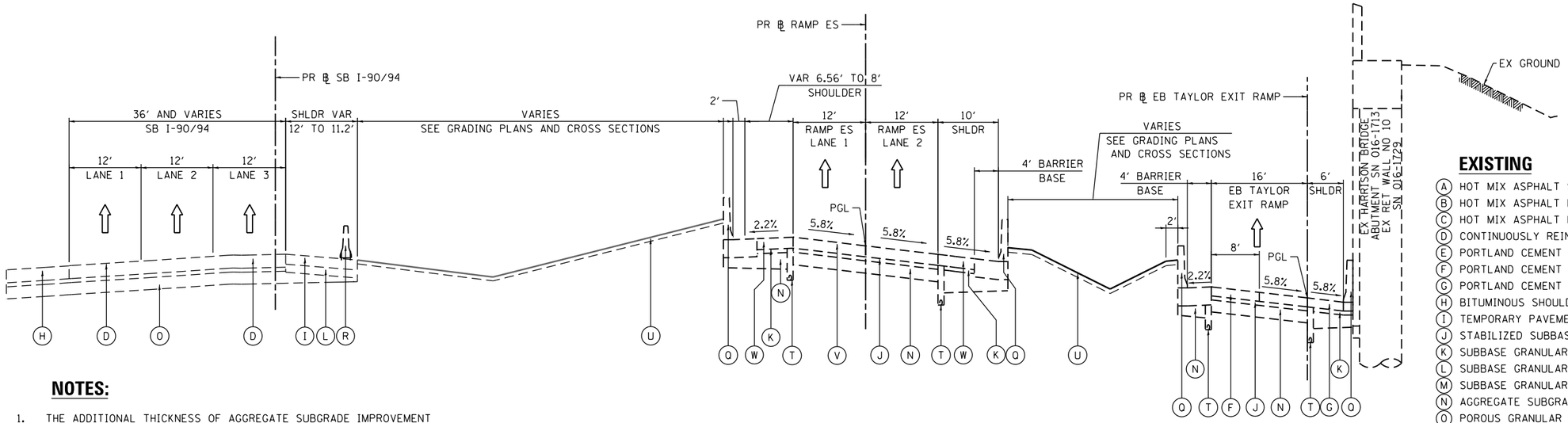


NOTES:

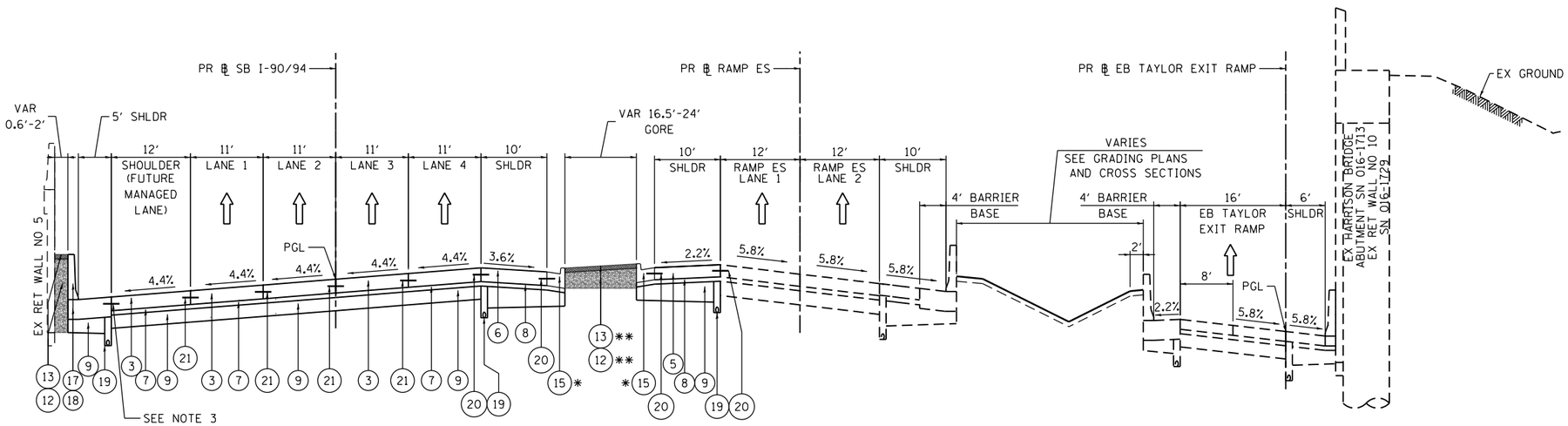
1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS GGD01128.

EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6229+11.25 TO STA 6231+12.62

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6229+11.25 TO STA 6231+12.62

* COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 FROM STA 6230+39.00 TO STA 6230+98.44

** CONCRETE MEDIAN SURFACE, 4" FROM STA 6230+39.00 TO STA 6230+97.84

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 8 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	40
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

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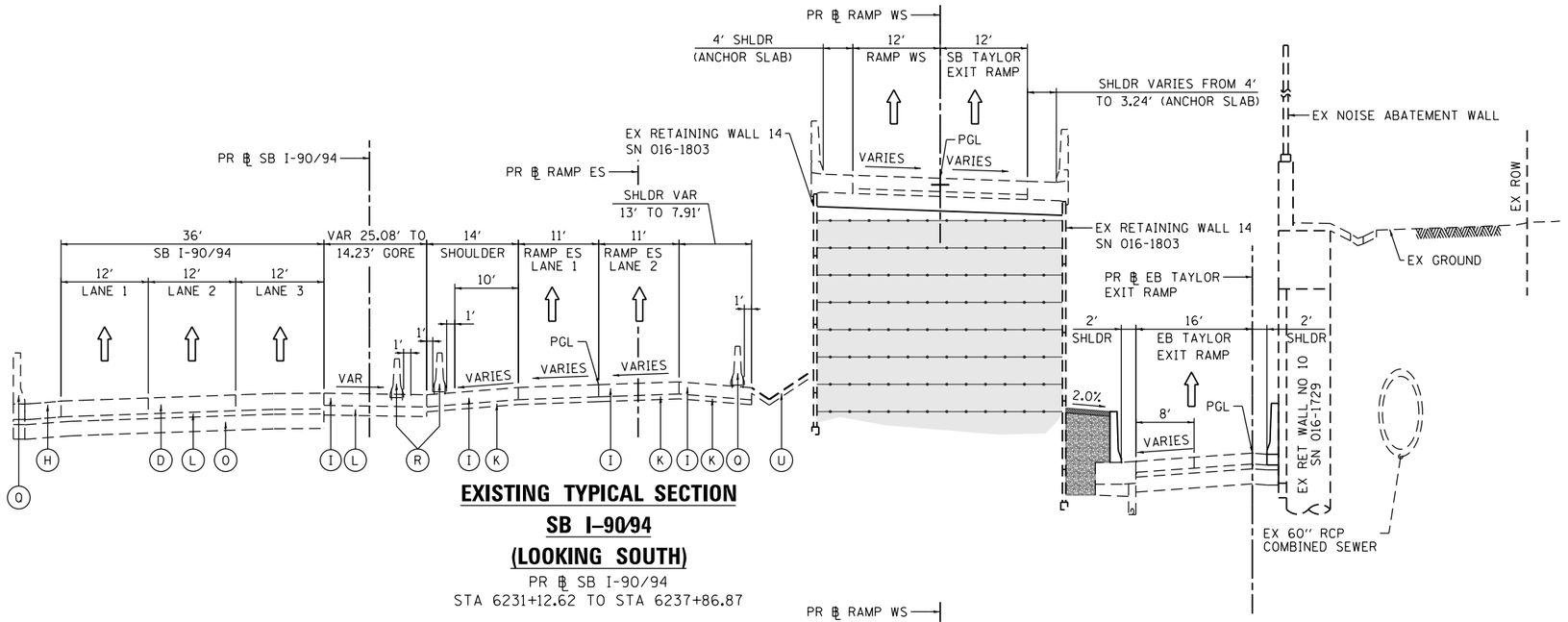
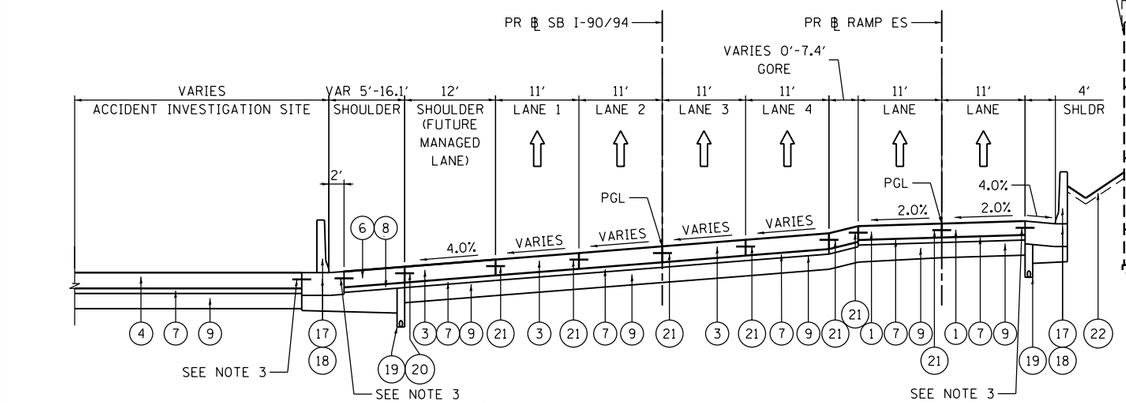


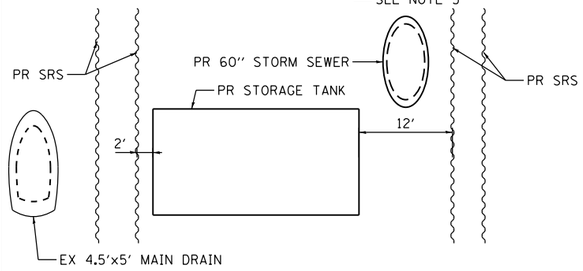
EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6231+12.62 TO STA 6237+86.87

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"





PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6231+12.62 TO STA 6237+86.87

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGD701128.

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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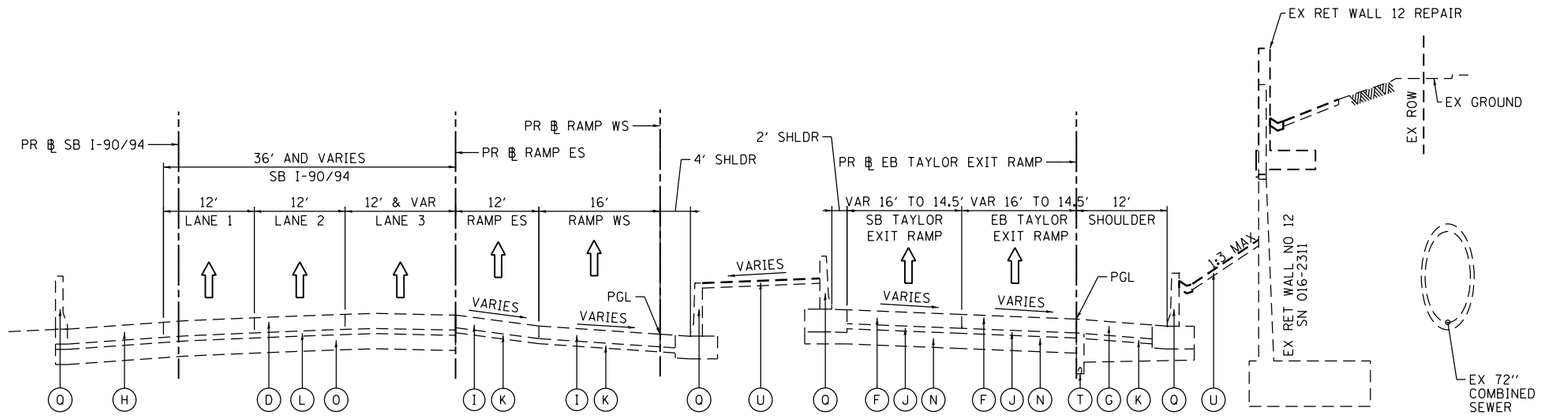
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 9 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	41
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

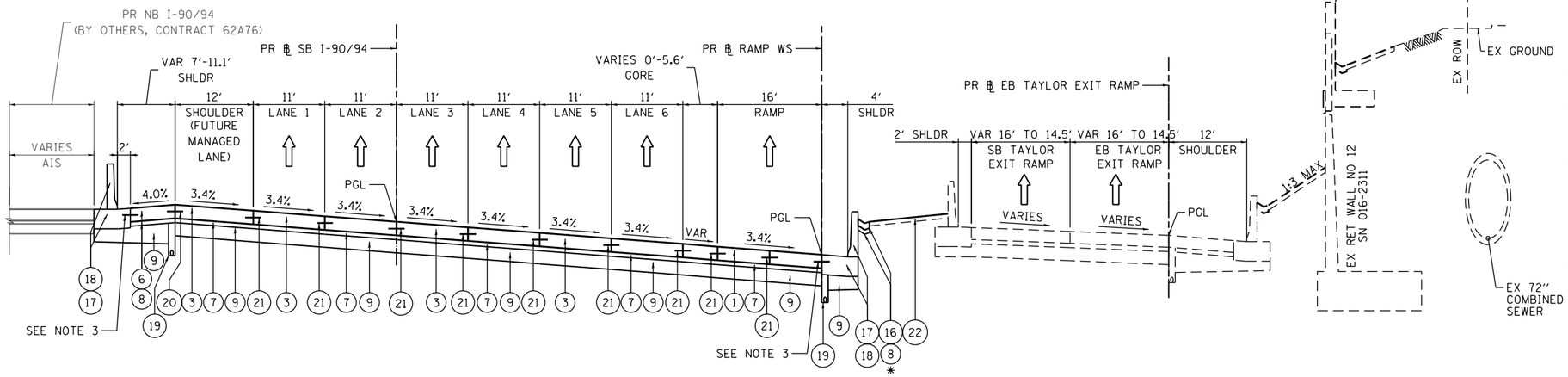
PR ℄ SB I-90/94
STA 6237+86.87 TO STA 6240+68.51

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGD701128.

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6237+86.87 TO STA 6240+68.51

*BEGIN CONCRETE GUTTER, TYPE B STA 6238+22.33

PROPOSED

1. PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
2. PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
3. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
4. PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
5. PORTLAND CEMENT CONCRETE SHOULDERS 11"
6. PORTLAND CEMENT CONCRETE SHOULDERS 12½"
7. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
8. SUBBASE GRANULAR MATERIAL, TYPE B 4"
9. AGGREGATE SUBGRADE IMPROVEMENT 12"
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
11. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
12. POROUS GRANULAR EMBANKMENT
13. CONCRETE MEDIAN SURFACE, 4"
14. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
15. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
16. CONCRETE GUTTER, TYPE B
17. CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
18. CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
19. PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
20. #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
21. #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
22. TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
23. TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
24. ANCHOR SLAB (SEE STRUCTURAL PLANS)
25. DRILL AND GROUT #8 TIE BARS
26. CONCRETE CURB, TYPE B
27. PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
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PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 10 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	42
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

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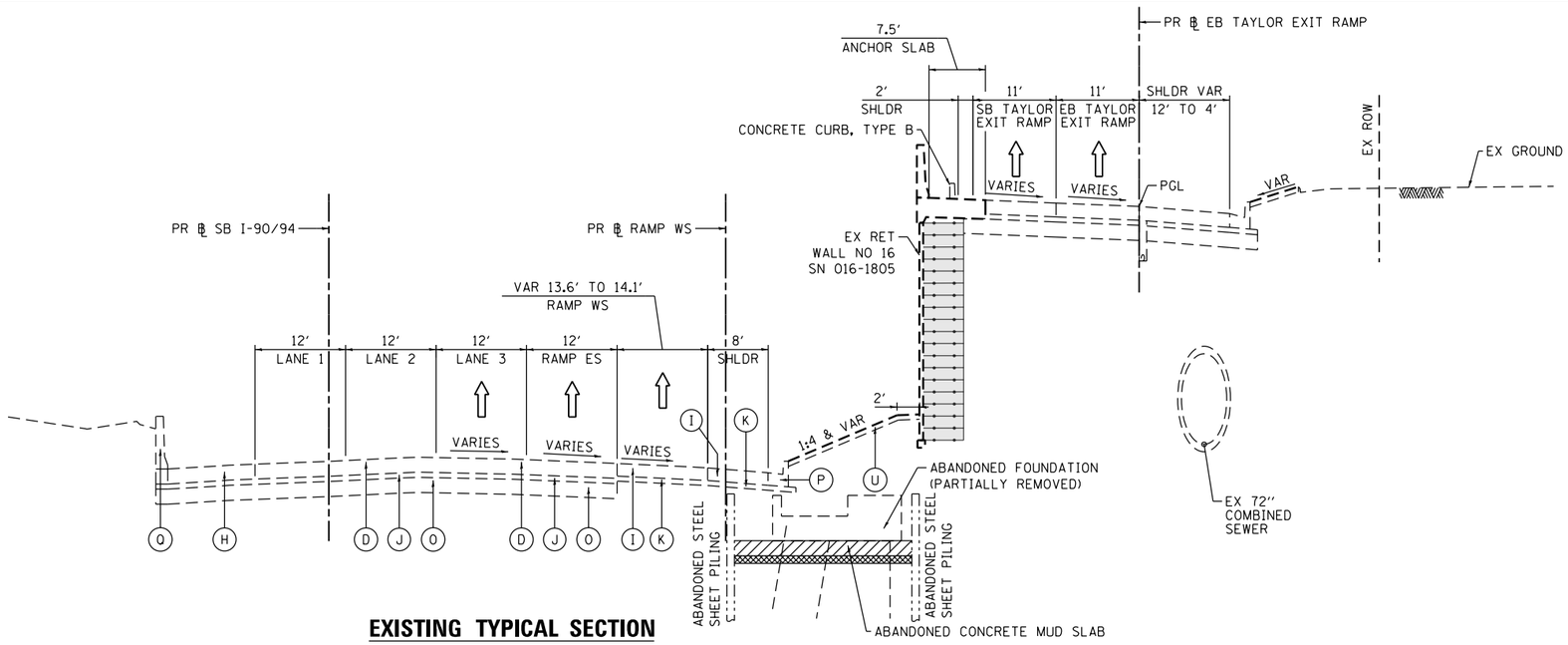
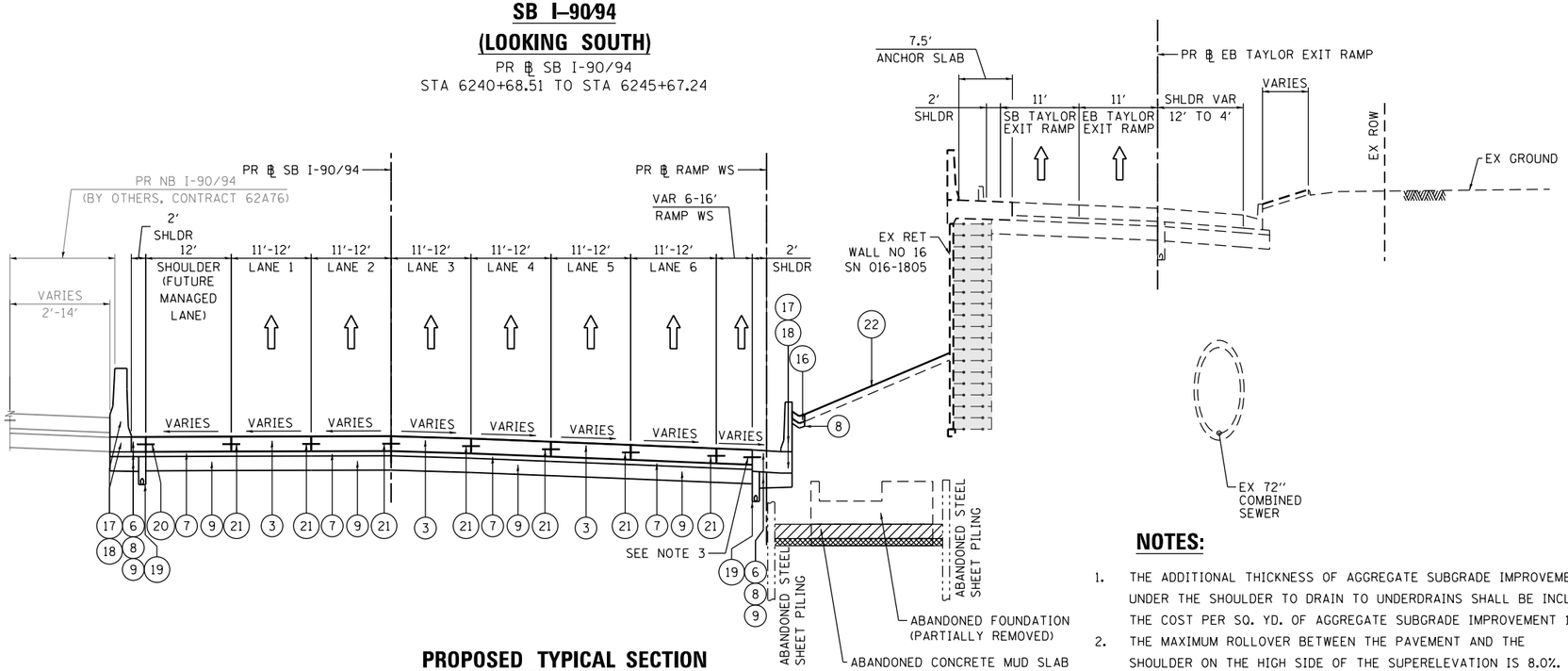


EXISTING TYPICAL SECTION
SB I–90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6240+68.51 TO STA 6245+67.24



PROPOSED TYPICAL SECTION
SB I–90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6240+68.51 TO STA 6245+67.24

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGD‡01128.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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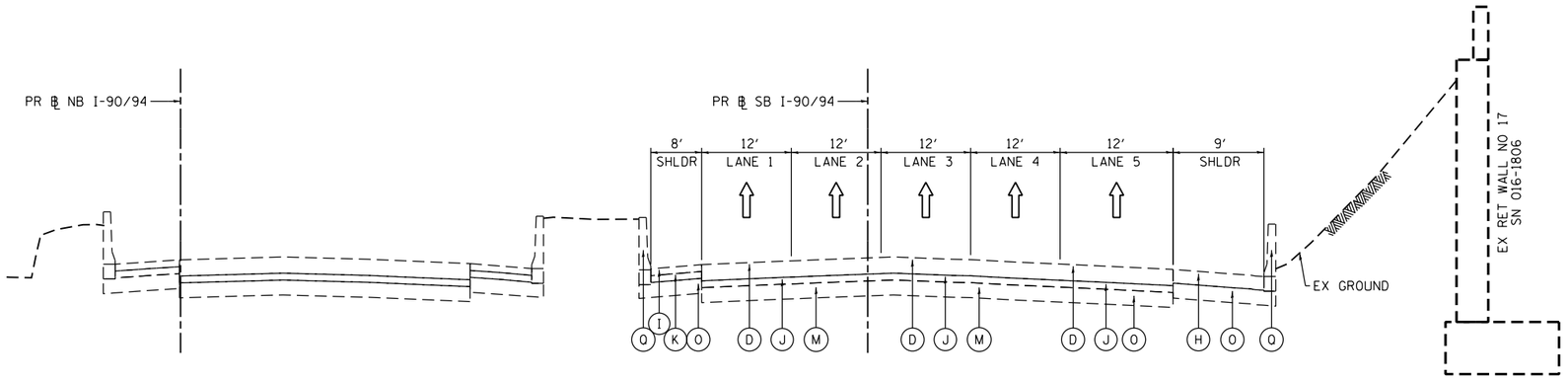
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -	
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I–90/94

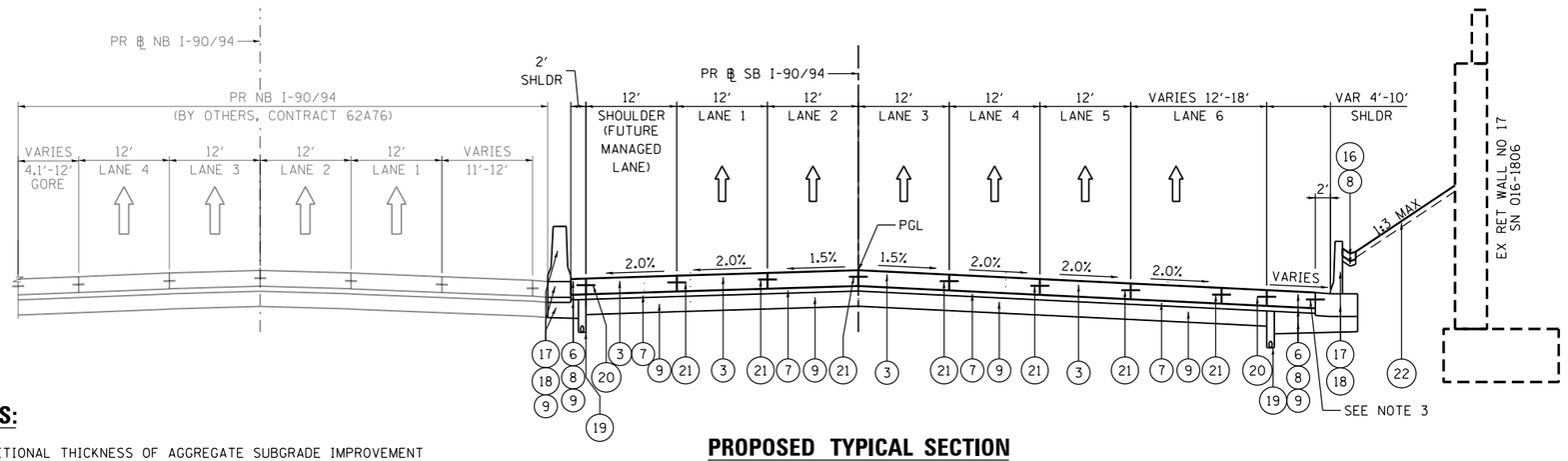
SCALE: NONE | SHEET 11 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	43
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6245+67.24 TO STA 6248+65.35



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6245+67.24 TO STA 6248+65.35

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGD‡01128.

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
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- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
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- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
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- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
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- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
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- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
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- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
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- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
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PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 12 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	44
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

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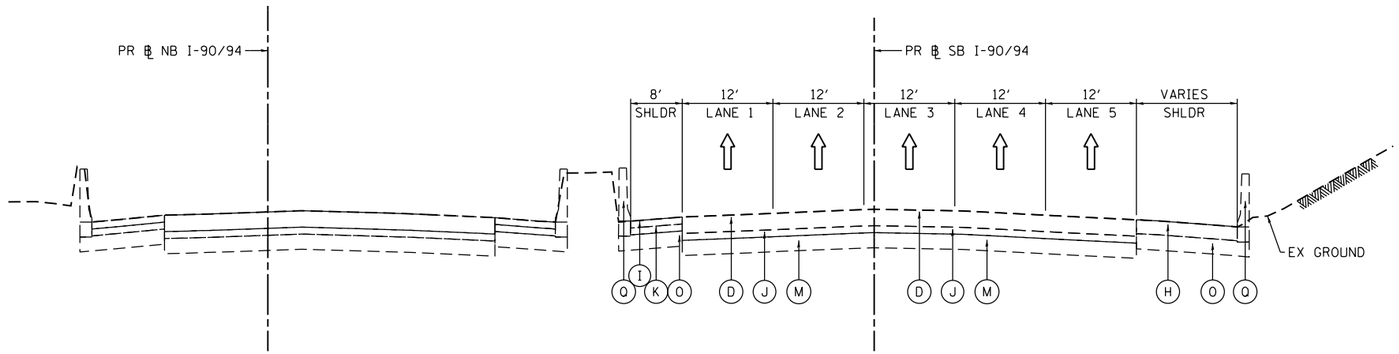
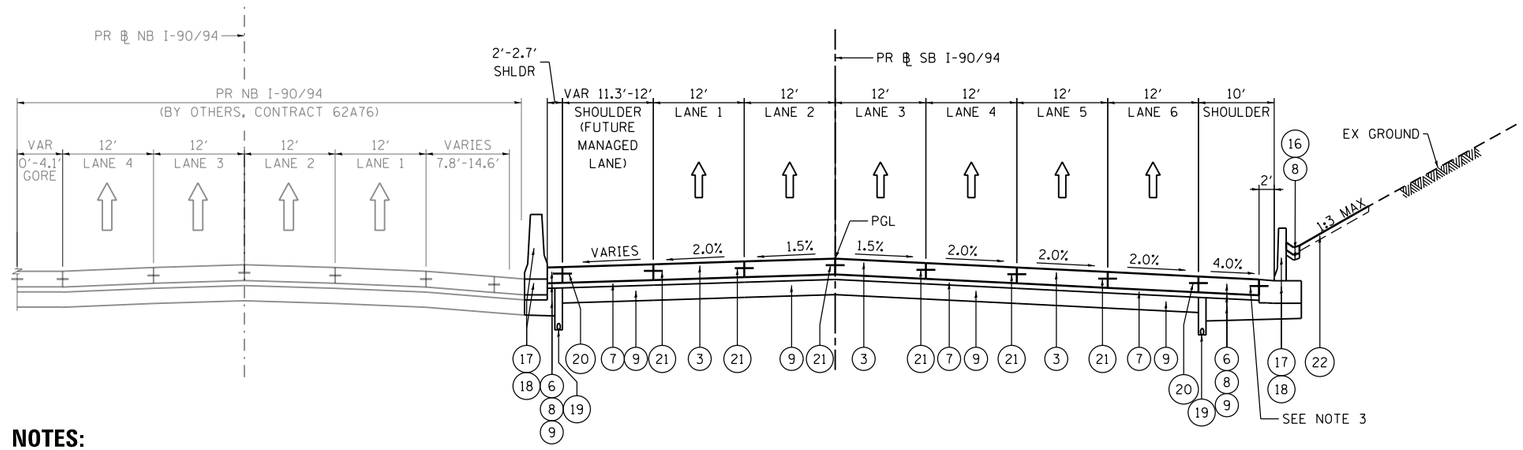


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6248+65.35 TO STA 6250+95.00



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6248+65.35 TO STA 6250+95.00

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGD‡01 128 .

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE | SHEET 13 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	45
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

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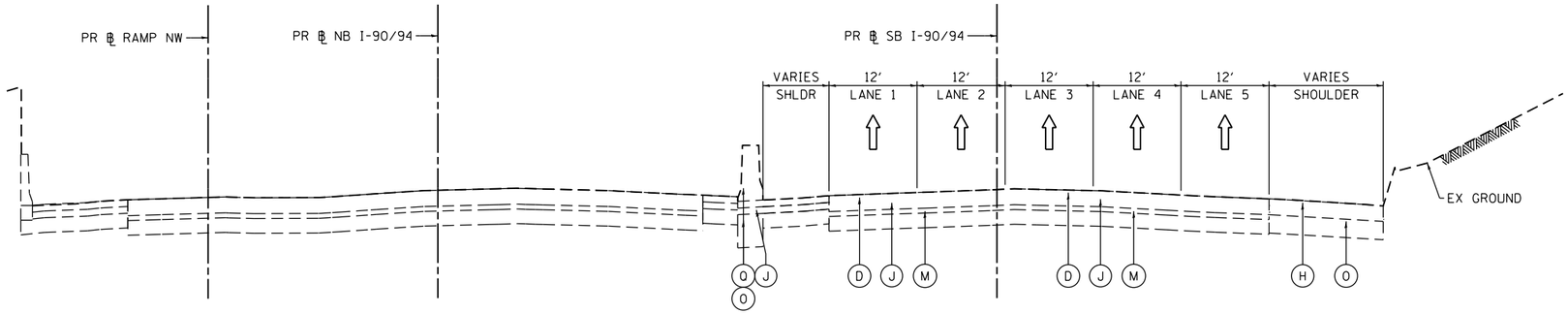
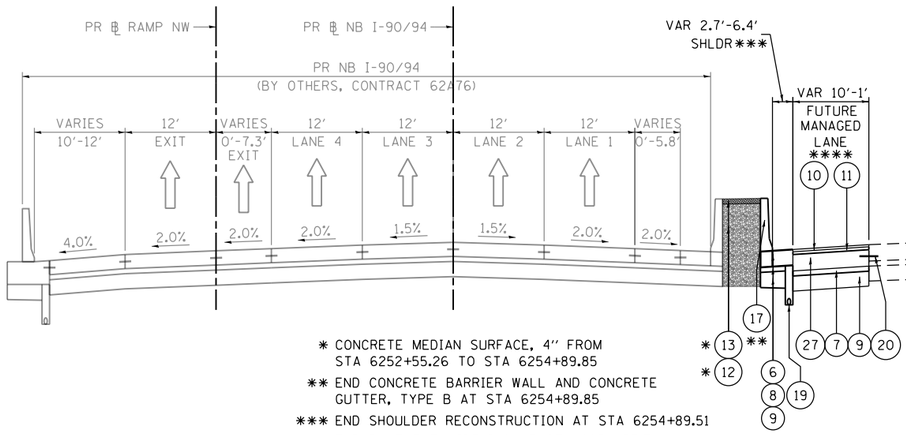


EXISTING TYPICAL SECTION
SB I–90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6250+95.00 TO STA 6256+00.00

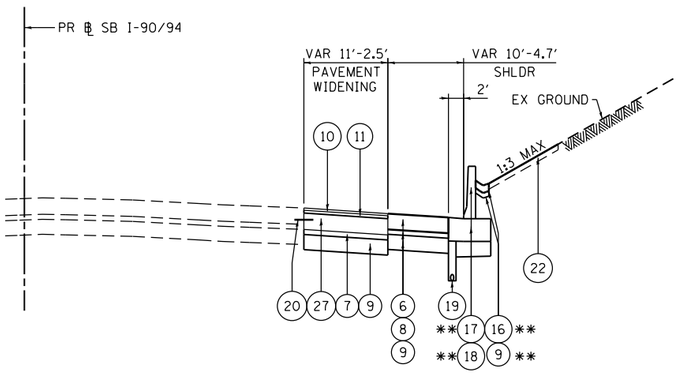


* CONCRETE MEDIAN SURFACE, 4″ FROM STA 6252+55.26 TO STA 6254+89.85

** END CONCRETE BARRIER WALL AND CONCRETE GUTTER, TYPE B AT STA 6254+89.85

*** END SHOULDER RECONSTRUCTION AT STA 6254+89.51

**** END PAVEMENT WIDENING AT STA 6254+53.71

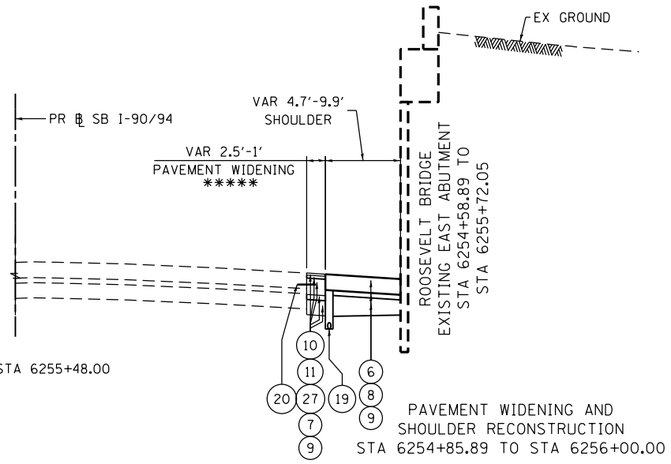


PAVEMENT WIDENING AND SHOULDER RECONSTRUCTION
STA 6250+95.00 TO STA 6254+85.89

PROPOSED TYPICAL SECTION
SB I–90/94
(LOOKING SOUTH)

PR ℄ SB I-90/94
STA 6250+95.00 TO STA 6256+00.00

***** END PAVEMENT WIDENING AT STA 6255+48.00



PAVEMENT WIDENING AND SHOULDER RECONSTRUCTION
STA 6254+85.89 TO STA 6256+00.00

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12″.
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS $GGDT01 128 .

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5″
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5″
- (C) HOT MIX ASPHALT PAVEMENT, 5″ TO 11″
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13″
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10″
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9″
- (H) BITUMINOUS SHOULDER, 13″
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8″
- (M) SUBBASE GRANULAR MATERIAL, 12″
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0″ TO 30″
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4″ TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11″

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9″ (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11″ (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12½″
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12½″ (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11″
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12½″
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4″
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4″
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12″
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX ″F″, N80, 1¾″
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2¼″
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4″
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4″ OR 6″ (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24″ LONG AT 36″ C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30″ LONG AT 36″ C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4″ AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24″ AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13″

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I–90/94

SCALE: NONE | SHEET 14 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	46
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

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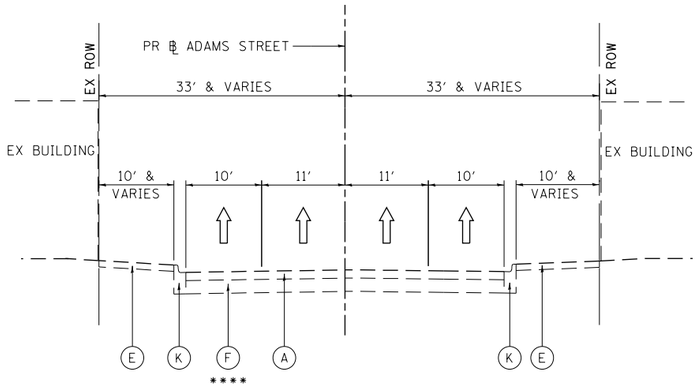
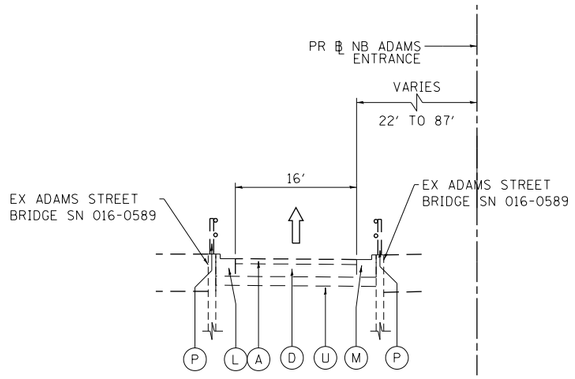


EXISTING TYPICAL SECTION
ADAMS STREET
(LOOKING EAST)

STA 8310+46.00 TO STA 8311+59.26
SEE NOTE 1
STA 8315+11.35 TO STA 8316+35.00

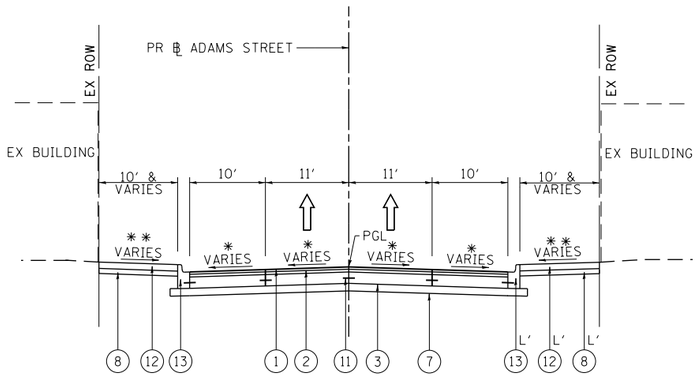


EXISTING TYPICAL SECTION
NB ADAMS STREET ENTRANCE RAMP
(LOOKING NORTH)

PR ℄ NB ADAMS ENTRANCE
STA 8342+31.22 TO STA 8344+49.74

EXISTING

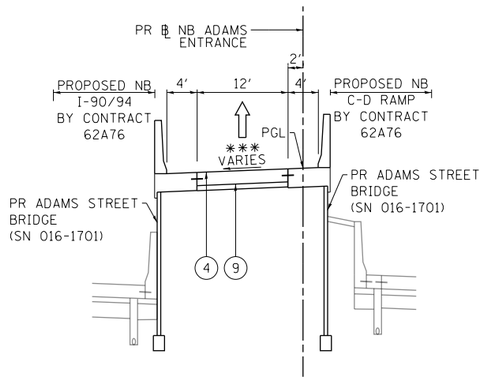
- (A) HOT-MIX ASPHALT PAVEMENT, 4" TO 11"
- (B) HOT MIX ASPHALT SHOULDERS, 6" TO 13"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, VARIES 0" TO 36"
- (D) PORTLAND CEMENT CONCRETE BASE COURSE, 10"
- (E) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT, 10" TO 10 1/2"
- (G) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7"
- (H) CONCRETE BARRIER, SINGLE FACE AND BASE
- (I) CONCRETE MEDIAN SURFACE
- (J) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- (K) COMBINATION CONCRETE CURB AND GUTTER, TYPE 3
- (L) COMBINATION CONCRETE CURB AND GUTTER TYPE B V.12
- (M) COMBINATION CONCRETE CURB AND GUTTER TYPE B (SPECIAL)
- (N) SUBBASE GRANULAR MATERIAL, 12"
- (O) GUARDRAIL
- (P) RED RAILING
- (Q) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (R) CONCRETE GUTTER, TYPE B
- (S) AGGREGATE SUBGRADE, 12"
- (T) UNDERGROUND BRIDGE BRACING AND FOOTINGS
- (U) SUBBASE GRANULAR MATERIAL, 6"



PROPOSED TYPICAL SECTION
ADAMS STREET
(LOOKING EAST)

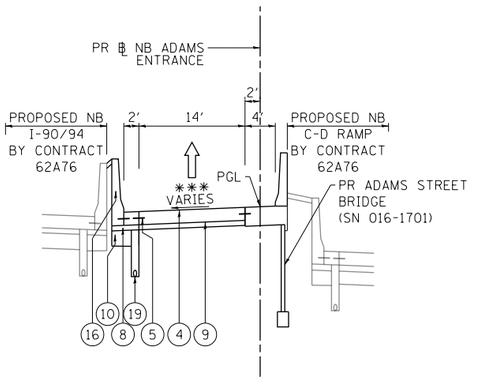
STA 8310+46.00 TO STA 8311+59.26
SEE NOTE 1
STA 8315+11.35 TO STA 8316+35.00

L' STA 8310+46.00 TO STA 8311+20.00
CURB AND GUTTER (SPECIAL)
EXISTING SIDEWALK TO REMAIN



PROPOSED TYPICAL SECTION
NB ADAMS STREET ENTRANCE RAMP
(LOOKING NORTH)

PR ℄ NB ADAMS ENTRANCE
STA 8342+44.48 TO STA 8343+11.48



PROPOSED TYPICAL SECTION
NB ADAMS STREET ENTRANCE RAMP
(LOOKING NORTH)

PR ℄ NB ADAMS ENTRANCE
STA 8343+11.48 TO STA 8343+65.65

PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1½"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 2¼"
- (3) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (6) ITEM NOT USED
- (7) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (10) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (11) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR CURB AND GUTTER, PCC PAVEMENT, PCC BASE COURSE, PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (12) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B V.12 (CDOT)
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (15) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
- (17) CONCRETE BARRIER BASE
- (18) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (19) PIPE UNDERDRAINS, TYPE 2, 6"
- (20) CONCRETE GUTTER, TYPE A
- (21) CONCRETE MEDIAN SUFACE, 4 INCH
- (22) SELECT GRANULAR BACKFILL (SPECIAL)

NOTES:

1. SEE SHEET ADM-05 FOR BRIDGE TYPICAL SECTION FROM STA 8311+59.26 TO STA 8315+11.35
- *2. TYPICAL LOCAL ROADWAY CROSS SLOPE VARIES BETWEEN 1.56% AND 3.23% AS INDICATED ON THE PLANS. SEE ROADWAY GRADING PLAN DETAILS FOR ROADWAY SLOPE TRANSITIONS.
- **3. AS INDICATED ON THE ROADWAY PLAN, TYPICALLY 6' MIN OF PROPOSED SIDEWALK WIDTH MUST HAVE A CROSS SLOPE OF 1:64 OR LESS.
- ***4. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES.
5. PCC BASE COURSE SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 20' MAXIMUM SPACING, (INCLUDED IN PRICE FOR BID FOR PCC BASE COURSE).
- ****6. PORTIONS OF THE EXISTING ROADWAY BASE MAY BE BRICK OR GRANITE PAVERS. PAVERS SHALL BE SALVAGED. CONTACT MAY TOY, PRESIDENT OF THE SKINNER PARK ADVISORY COUNCIL MTOY@SKINNERPARK.ORG OR (312) 765-3525 TO ARRANGE FOR PICKUP.

FILE PATH = per:\\AECOM-NA-AWS1.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase 1\000_CAD\006-Roadway\Sheets\60X94_Contract\D160X94-sht-Typical-01.dgn

D160X94-sht-Typical-01.dgn	DESIGNED - MLR	REVISED -
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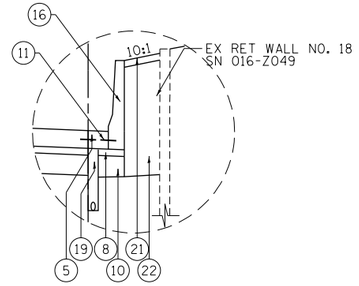
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
ADAMS STREET AND ENTRANCE RAMP

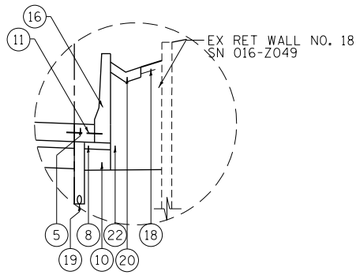
SCALE: NONE | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	627	26
		CONTRACT NO. 60X94		
		ILLINOIS FED. AID PROJECT		



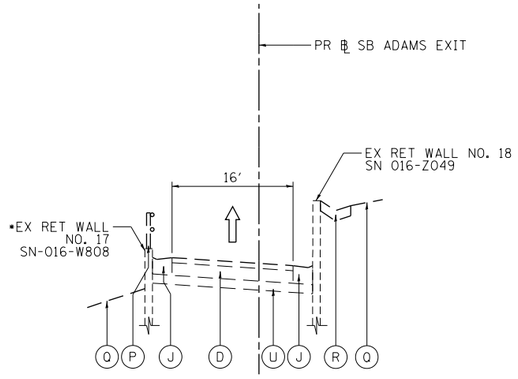
DETAIL A

STA 8387+45.00 TO STA 8384+03.83
STA 8386+02.85 TO STA 8386+53.86



DETAIL B

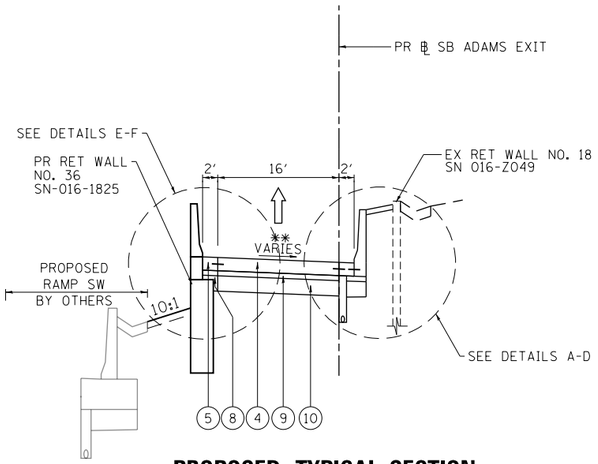
STA 8384+03.83 TO STA 8386+02.85



EXISTING TYPICAL SECTION SB ADAMS STREET EXIT RAMP (LOOKING SOUTH)

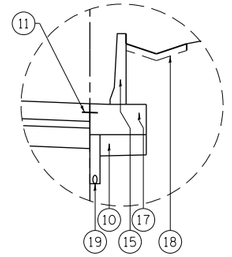
PR ℄ SB ADAMS EXIT
STA 8383+45.00 TO STA 8387+85.07

* GUARDRAIL FROM STA 8384+66.85
TO STA 8385+14.75
RETAINING WALL WITH RED RED RAILING
FROM 8385+14.75 TO STA 8387+83.79



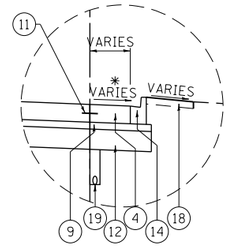
PROPOSED TYPICAL SECTION SB ADAMS STREET EXIT RAMP (LOOKING SOUTH)

PR ℄ SB ADAMS EXIT
STA 8383+45.00 TO STA 8387+85.07



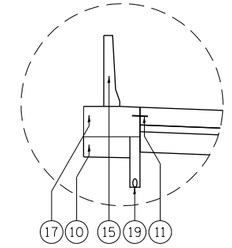
DETAIL C

STA 8386+53.86 TO STA 8387+43.58



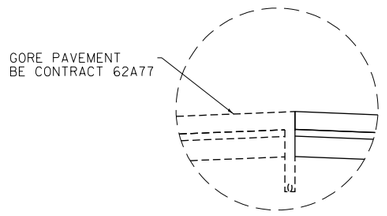
DETAIL D

STA 8387+43.58 TO STA 8387+85.07



DETAIL E

STA 8384+29.09 TO STA 8384+81.49



DETAIL F

STA 8383+45.00 TO STA 8384+29.08

EXISTING

(A) HOT-MIX ASPHALT PAVEMENT, 4" TO 11"
(B) HOT MIX ASPHALT SHOULDERS, 6" TO 13"
(C) POROUS GRANULAR EMBANKMENT, SPECIAL, VARIES 0" TO 36"
(D) PORTLAND CEMENT CONCRETE BASE COURSE, 10"
(E) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
(F) PORTLAND CEMENT CONCRETE PAVEMENT, 10" TO 10 1/2"
(G) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7"
(H) CONCRETE BARRIER, SINGLE FACE AND BASE
(I) CONCRETE MEDIAN SURFACE
(J) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
(K) COMBINATION CONCRETE CURB AND GUTTER, TYPE 3
(L) COMBINATION CONCRETE CURB AND GUTTER TYPE B V.12
(M) COMBINATION CONCRETE CURB AND GUTTER TYPE B (SPECIAL)
(N) SUBBASE GRANULAR MATERIAL, 12"
(O) GUARDRAIL
(P) RED RAILING
(Q) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
(R) CONCRETE GUTTER, TYPE B
(S) AGGREGATE SUBGRADE, 12"
(T) UNDERGROUND BRIDGE BRACING AND FOOTINGS
(U) SUBBASE GRANULAR MATERIAL, 6"

PROPOSED

(1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1½"
(2) HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 2¼"
(3) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
(4) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
(5) PORTLAND CEMENT CONCRETE SHOULDERS 9"
(6) ITEM NOT USED
(7) SUBBASE GRANULAR MATERIAL, TYPE B 6"
(8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
(9) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
(10) AGGREGATE SUBGRADE IMPROVEMENT 12"
(11) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR CURB AND GUTTER, PCC PAVEMENT, PCC BASE COURSE, PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
(12) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
(13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B V.12 (CDOT)
(14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
(15) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
(16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
(17) CONCRETE BARRIER BASE
(18) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
(19) PIPE UNDERDRAINS, TYPE 2, 6"
(20) CONCRETE GUTTER, TYPE A
(21) CONCRETE MEDIAN SUFACE, 4 INCH
(22) SELECT GRANULAR BACKFILL (SPECIAL)

NOTES:

** 1. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES

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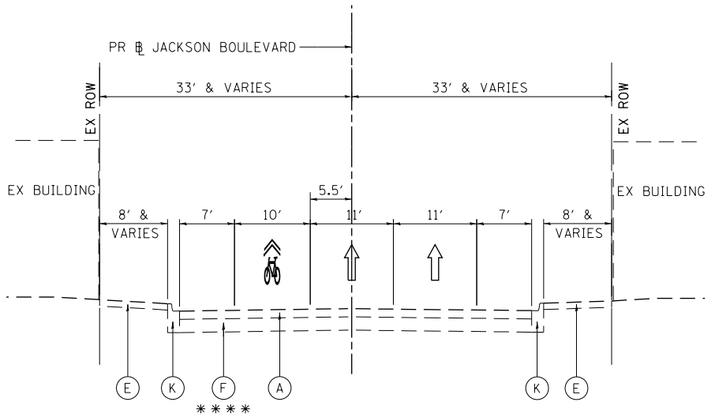
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
ADAMS STREET EXIT RAMP

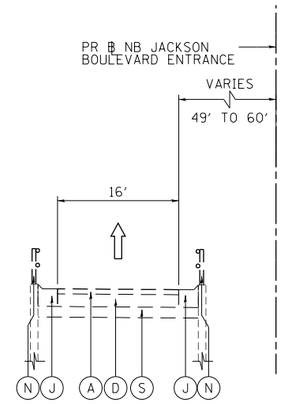
SCALE: NONE | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	627	27
		CONTRACT NO. 60X94		
	ILLINOIS FED. AID PROJECT			



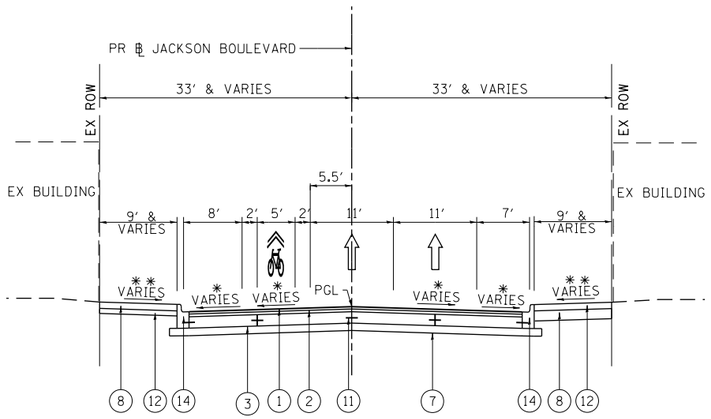
EXISTING TYPICAL SECTION
JACKSON BOULEVARD
(LOOKING EAST)

STA 8210+35.00 TO STA 8211+72.05
SEE NOTE 1
STA 8214+89.44 TO STA 8215+70.00



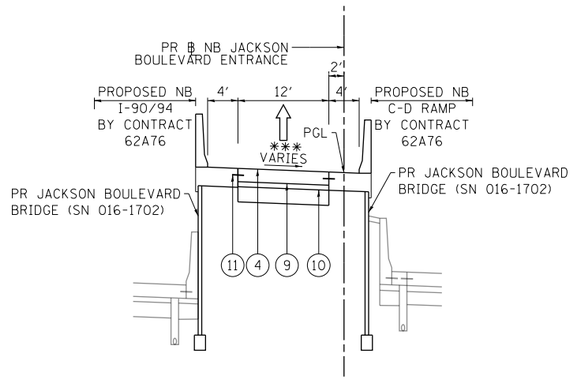
EXISTING TYPICAL SECTION
NB JACKSON BOULEVARD ENTRANCE RAMP
(LOOKING NORTH)

PR ℄ NB JACKSON ENTRANCE
STA 8241+95.12 TO STA 8243+20.18



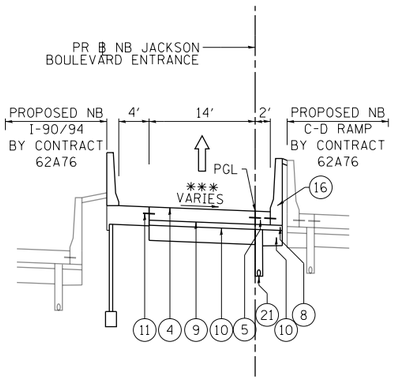
PROPOSED TYPICAL SECTION
JACKSON BOULEVARD
(LOOKING EAST)

STA 8210+35.00 TO STA 8211+72.05
SEE NOTE 1
STA 8214+89.44 TO STA 8215+70.00



PROPOSED TYPICAL SECTION
NB JACKSON BOULEVARD ENTRANCE RAMP
(LOOKING NORTH)

PR ℄ NB JACKSON ENTRANCE
STA 8242+24.38 TO STA 8242+74.29



PROPOSED TYPICAL SECTION
NB JACKSON BOULEVARD ENTRANCE RAMP
(LOOKING NORTH)

PR ℄ NB JACKSON ENTRANCE
STA 8242+74.29 TO STA 8243+20.18

NOTES:

1. SEE SHEET JAC-03 FOR BRIDGE TYPICAL SECTION FROM STA 8211+72.05 TO STA 8214+89.44
2. ∗ TYPICAL LOCAL ROADWAY CROSS SLOPE VARIES BETWEEN 1.56% AND 3.22% AS INDICATED ON THE PLANS. SEE ROADWAY GRADING PLAN DETAILS FOR ROADWAY SLOPE TRANSITIONS.
3. ∗∗ AS INDICATED ON THE ROADWAY PLAN, TYPICALLY 6′ MIN OF PROPOSED SIDEWALK WIDTH MUST HAVE A CROSS SLOPE OF 1:64 OR LESS.
4. ∗∗∗ SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES.
5. PCC BASE COURSE SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 20′ MAXIMUM SPACING, (INCLUDED IN PRICE FOR BID FOR PCC BASE COURSE).
6. ∗∗∗∗ PORTIONS OF THE EXISTING ROADWAY BASE MAY BE BRICK OR GRANITE PAVERS. PAVERS SHALL BE SALVAGED. CONTACT MAY TOY, PRESIDENT OF THE SKINNER PARK ADVISORY COUNCIL MTOY@SKINNERPARK.ORG OR (312) 765-3525 TO ARRANGE FOR PICKUP.

FILE PATH = pw:\\AECOM-NA-AWS.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase 1\000_CAD\006-Roadway\Sheets\60X94 Contract\D160X94-sht-Typical-01.dgn

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PLOT SCALE = 20.0000 ′ / in.	CHECKED - MJL	REVISED -
PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
JACKSON BOULEVARD AND ENTRANCE RAMP

SCALE: NONE | SHEET 8 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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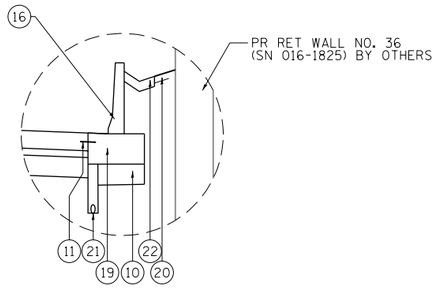
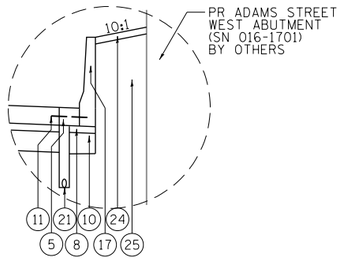
		CONTRACT NO. 60X94		
	ILLINOIS FED. AID PROJECT			



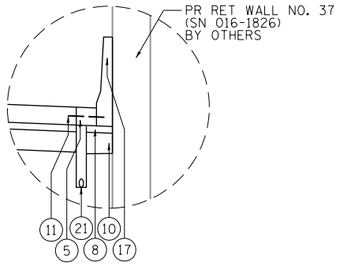
DETAIL A

STA 8281+91.96 TO STA 8282+03.37



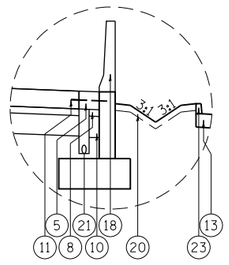
DETAIL B

STA 8282+03.37 TO STA 8282+56.43



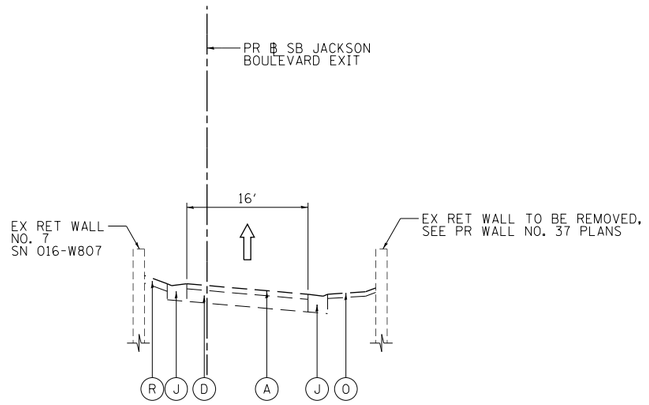
DETAIL C

STA 8282+56.43 TO STA 8286+02.19



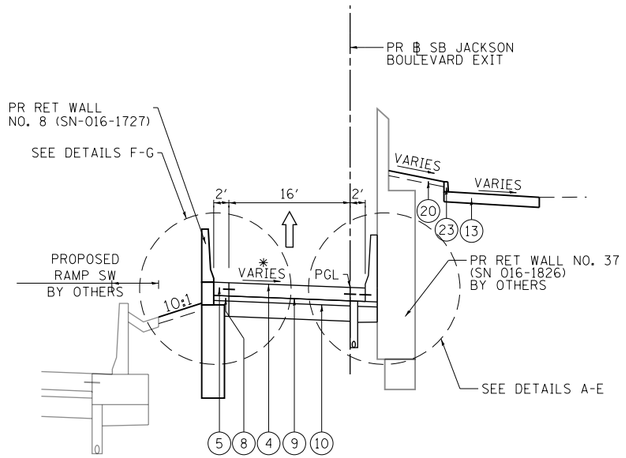
DETAIL D

STA 8286+02.19 TO STA 8286+67.20



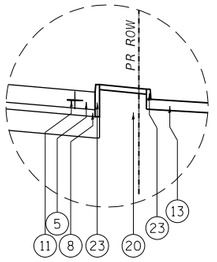
EXISTING TYPICAL SECTION
SB JACKSON BOULEVARD EXIT RAMP
(LOOKING SOUTH)

PR ℄ SB JACKSON EXIT
STA 8281+91.96 TO STA 8286+67.26



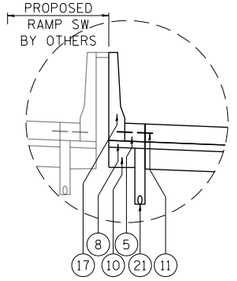
PROPOSED TYPICAL SECTION
SB JACKSON BOULEVARD EXIT RAMP
(LOOKING SOUTH)

PR ℄ SB JACKSON EXIT
STA 8281+91.96 TO STA 8286+67.26



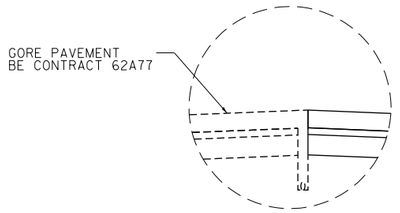
DETAIL E

STA 8286+02.19 TO STA 8286+67.20



DETAIL F

STA 8283+29.36 TO STA 8283+53.24



DETAIL G

STA 8281+91.96 TO 8283+29.36

NOTES:

** 1. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES

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PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -	

TYPICAL SECTIONS
JACKSON BOULEVARD EXIT RAMP

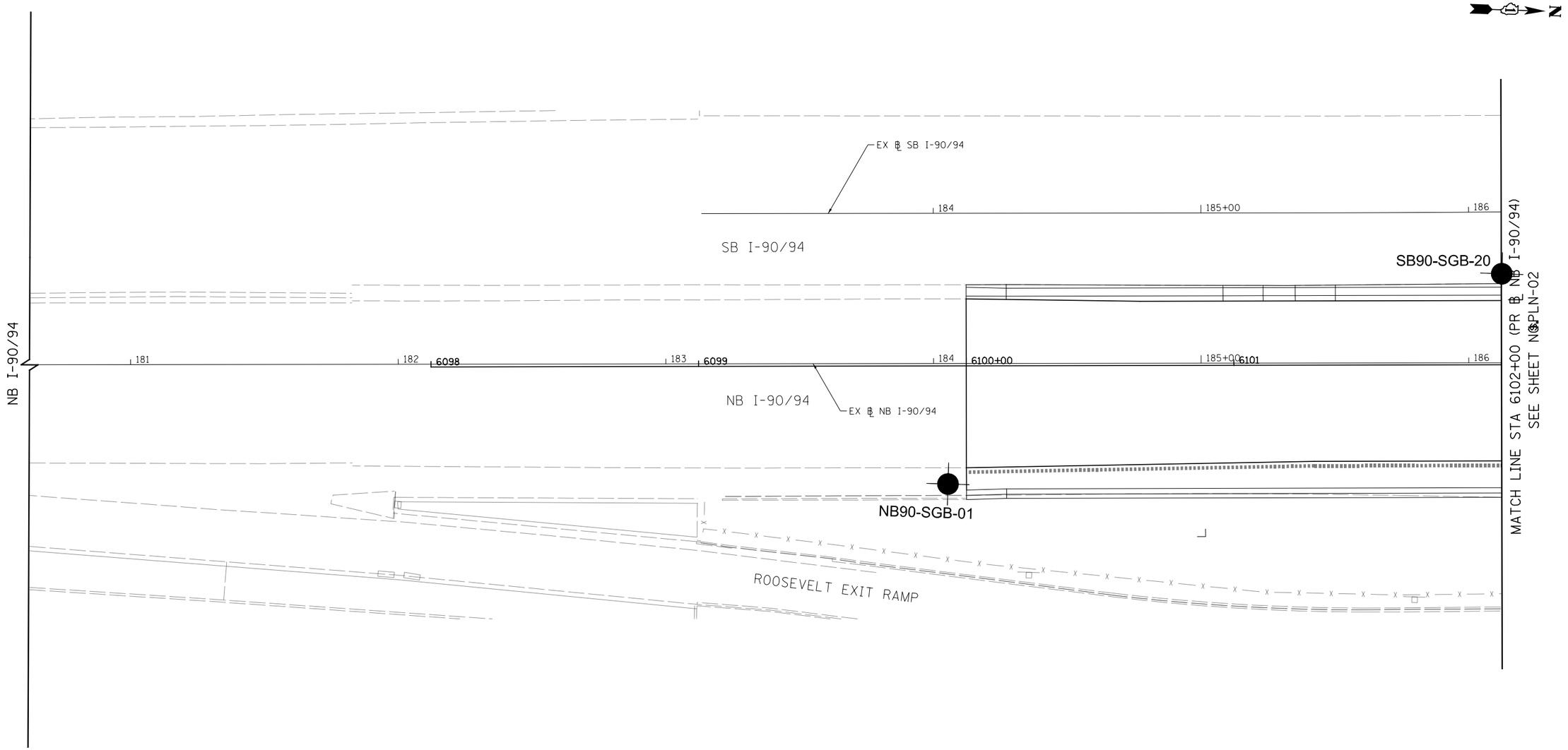
SCALE: NONE | SHEET 2 OF 8 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	627	29
		CONTRACT NO. 60X94		
		ILLINOIS FED. AID PROJECT		

APPENDIX E

Soil Boring Location Plans and Profiles

- I-90/94 NB and Connecting Ramps
- I-90/94 SB and Connecting Ramps



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

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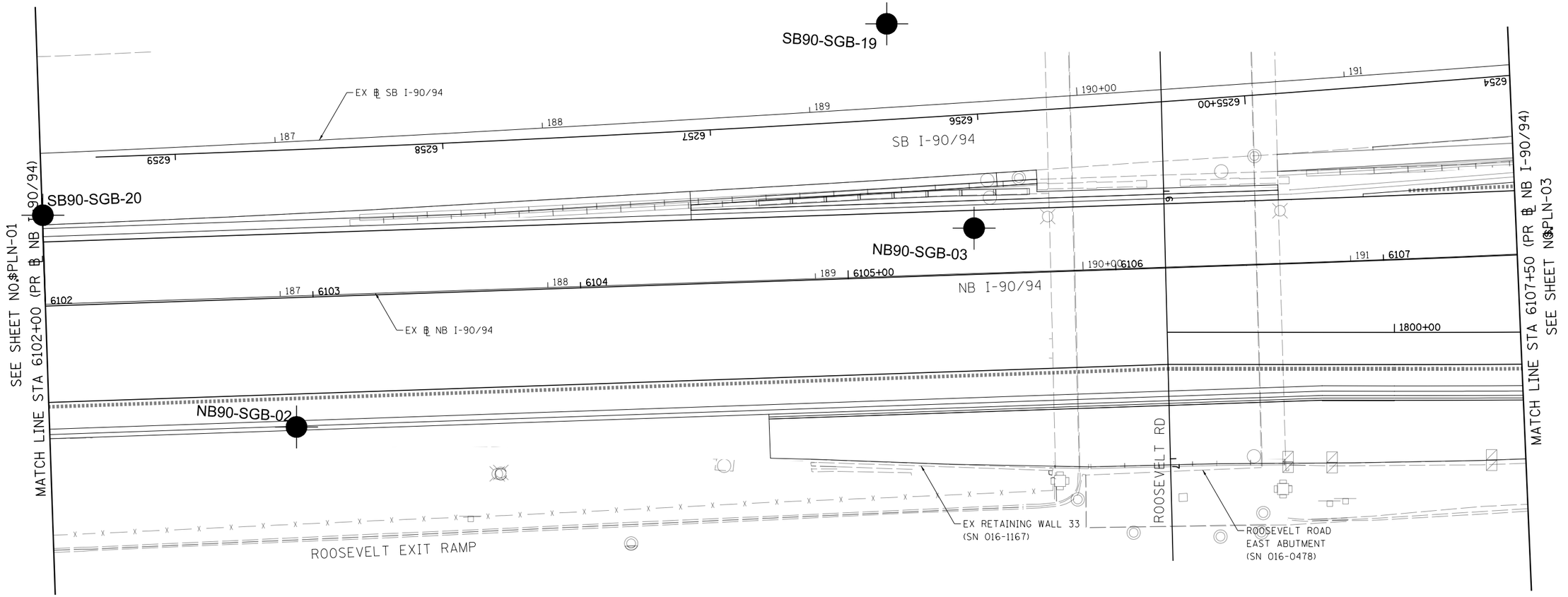
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-01 OF $PLN-TOTSHEETS | STA. 6098+00 | TO STA. 6102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-01
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTT-01 $JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01 $ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

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SCALE: 1" = 20'

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

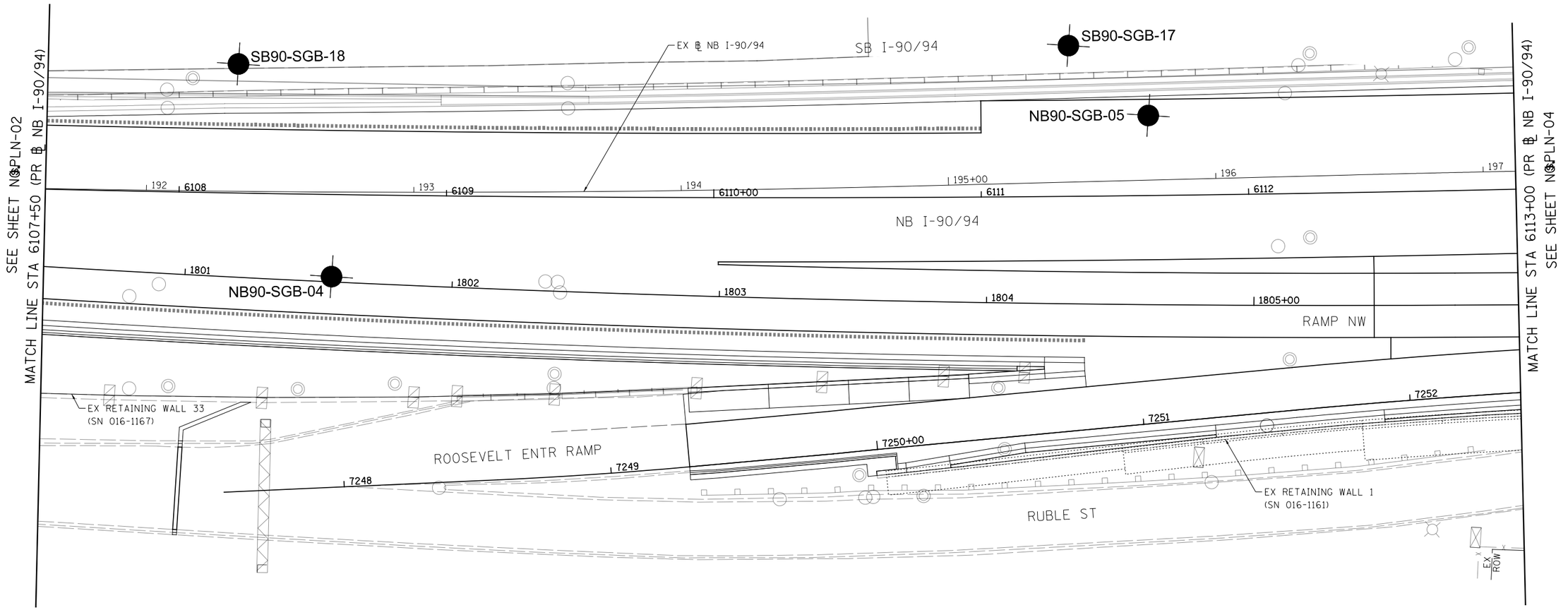
ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-02 OF $PLN-TOT SHEETS | STA. 6102+00 | TO STA. 6107+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-02

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01 $JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01 $ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

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PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-03 OF $PLN-TOTSHEETS | STA. 6107+50 TO STA. 6113+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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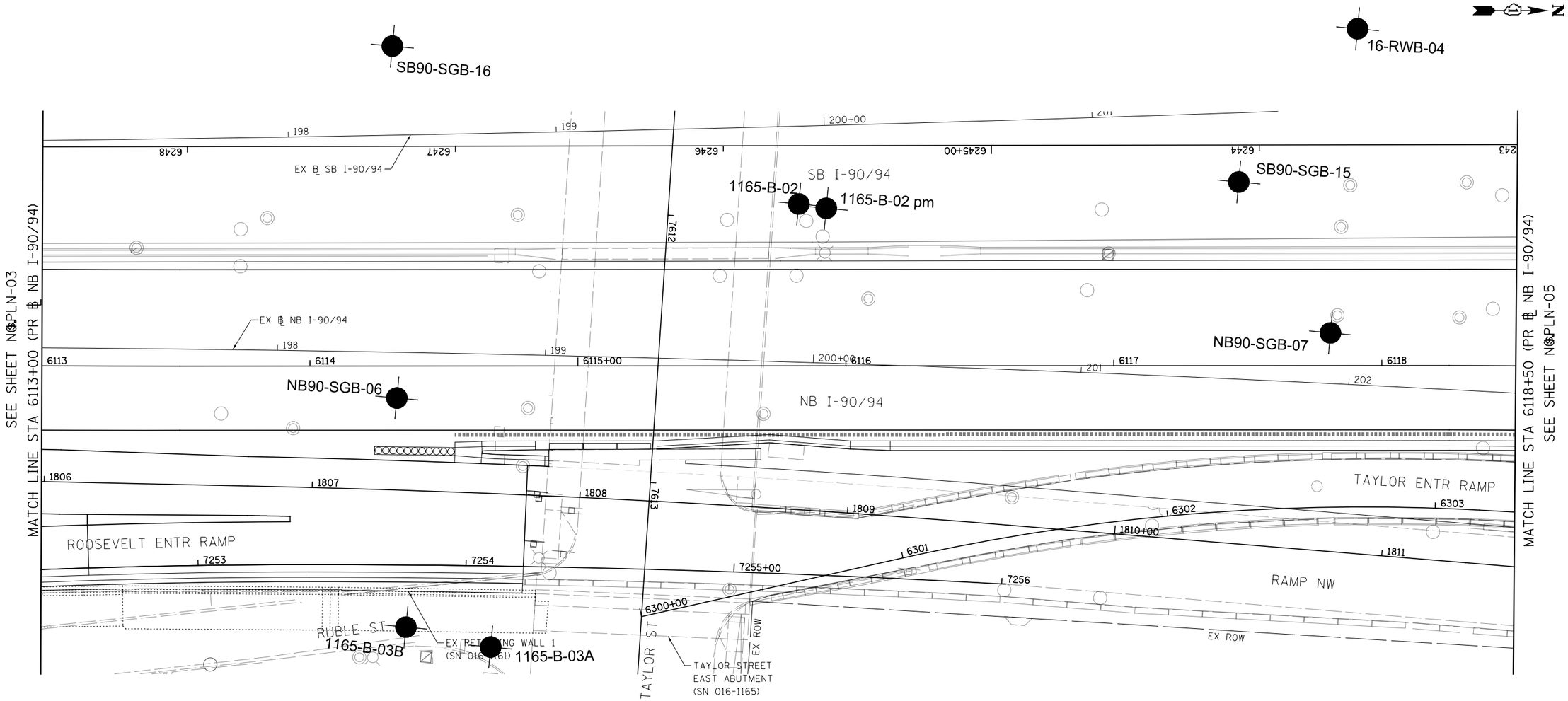
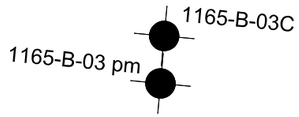
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			





NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTPLN-01$JNTPLN-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATIES-01$ATIES-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

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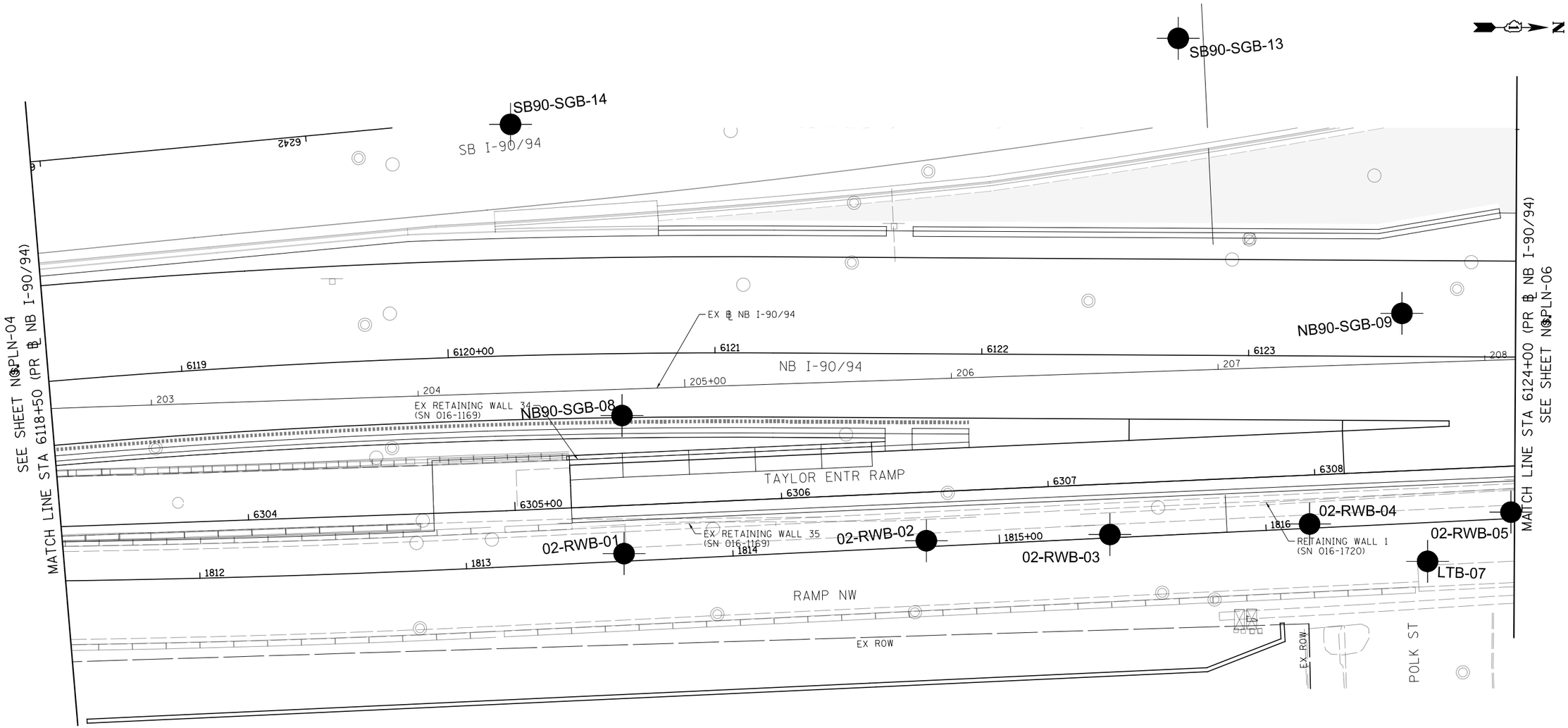
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-04 OF $PLN-TOTSHEETS | STA. 6113+00 | TO STA. 6118+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-04
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTED1$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATED-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

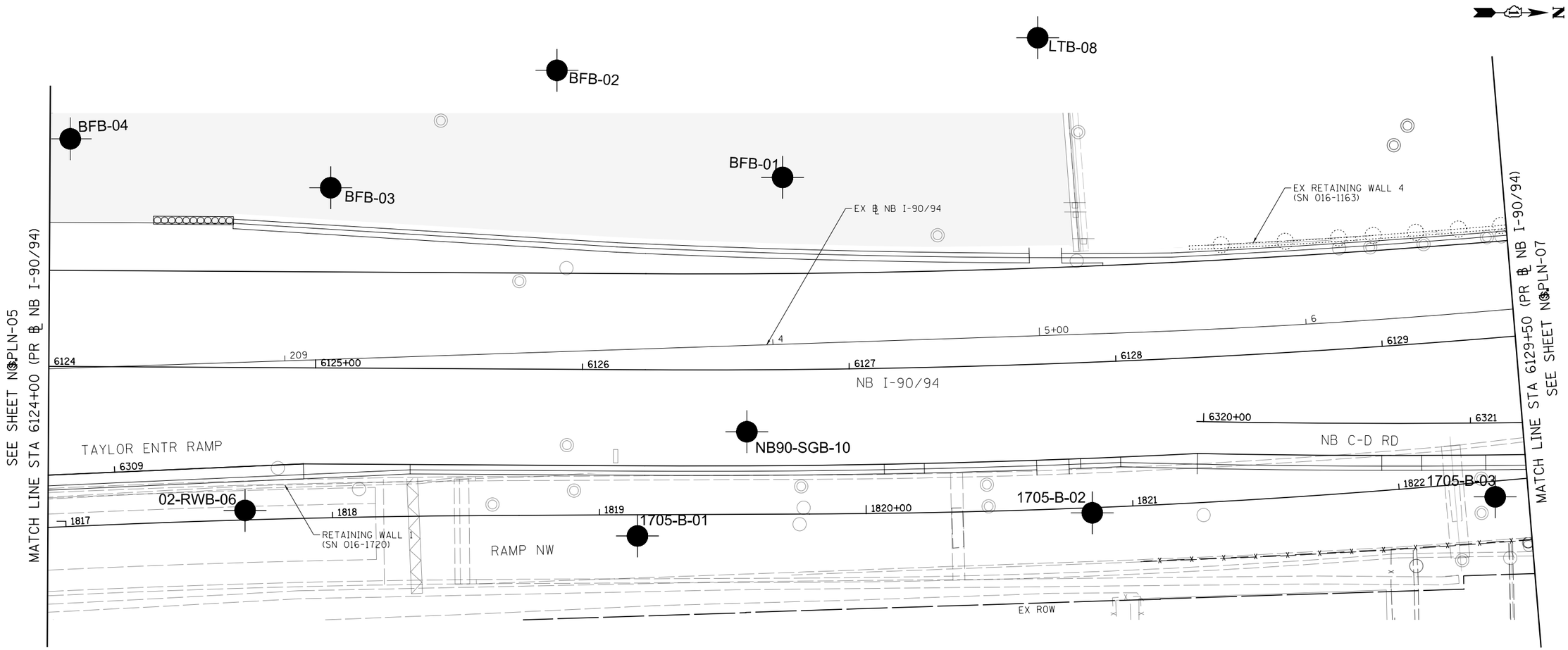
$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-05 OF $PLN-TOTSHEETS | STA. 6118+50 | TO STA. 6124+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-05
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01 $JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01 $ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

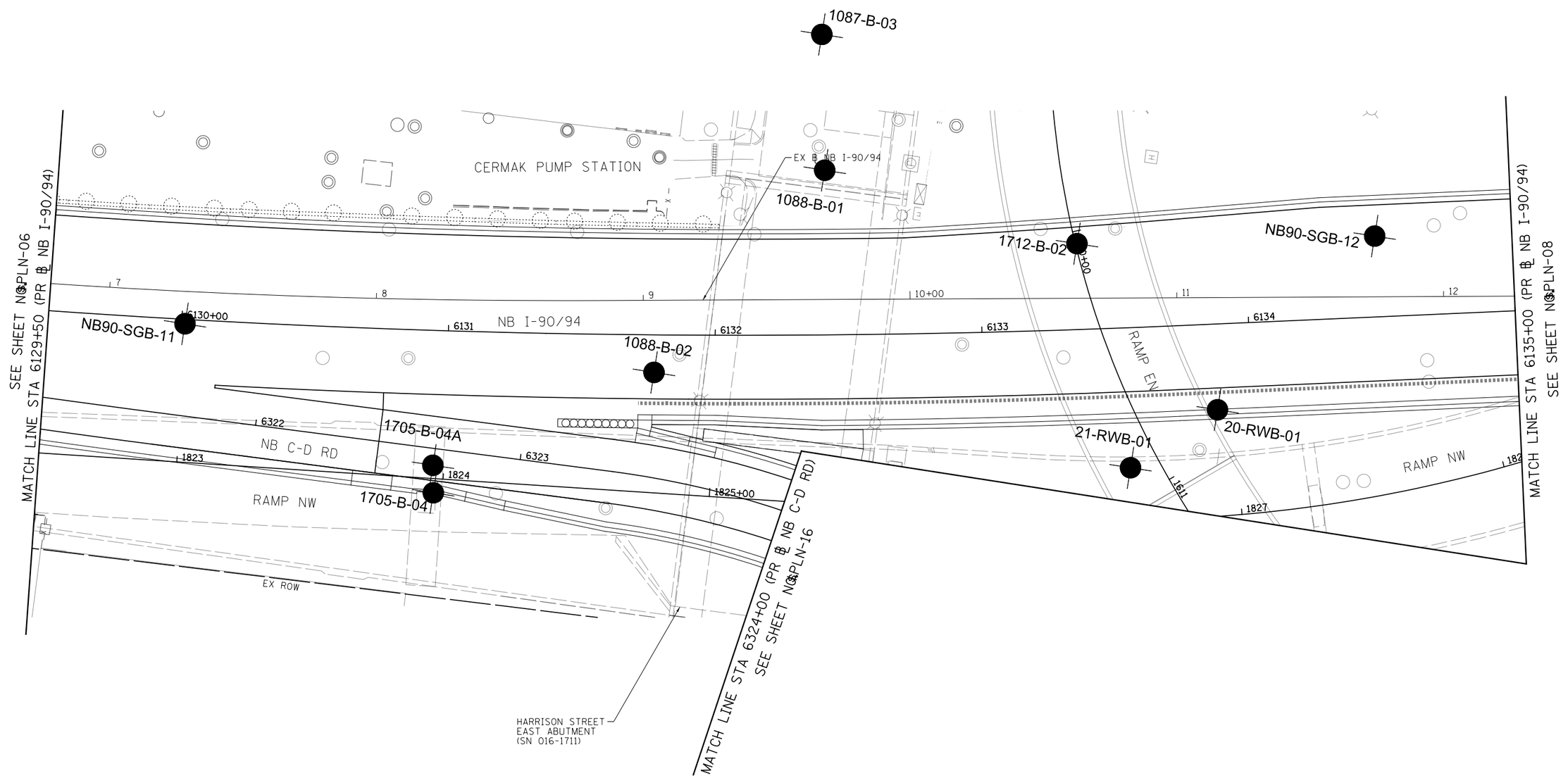
$FILES$	DESIGNED - $PLN-10-DE	REVISED -	
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-06 OF $PLN-TOTSHEETS | STA. 6124+00 | TO STA. 6129+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-06
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE1$

Tran Systems

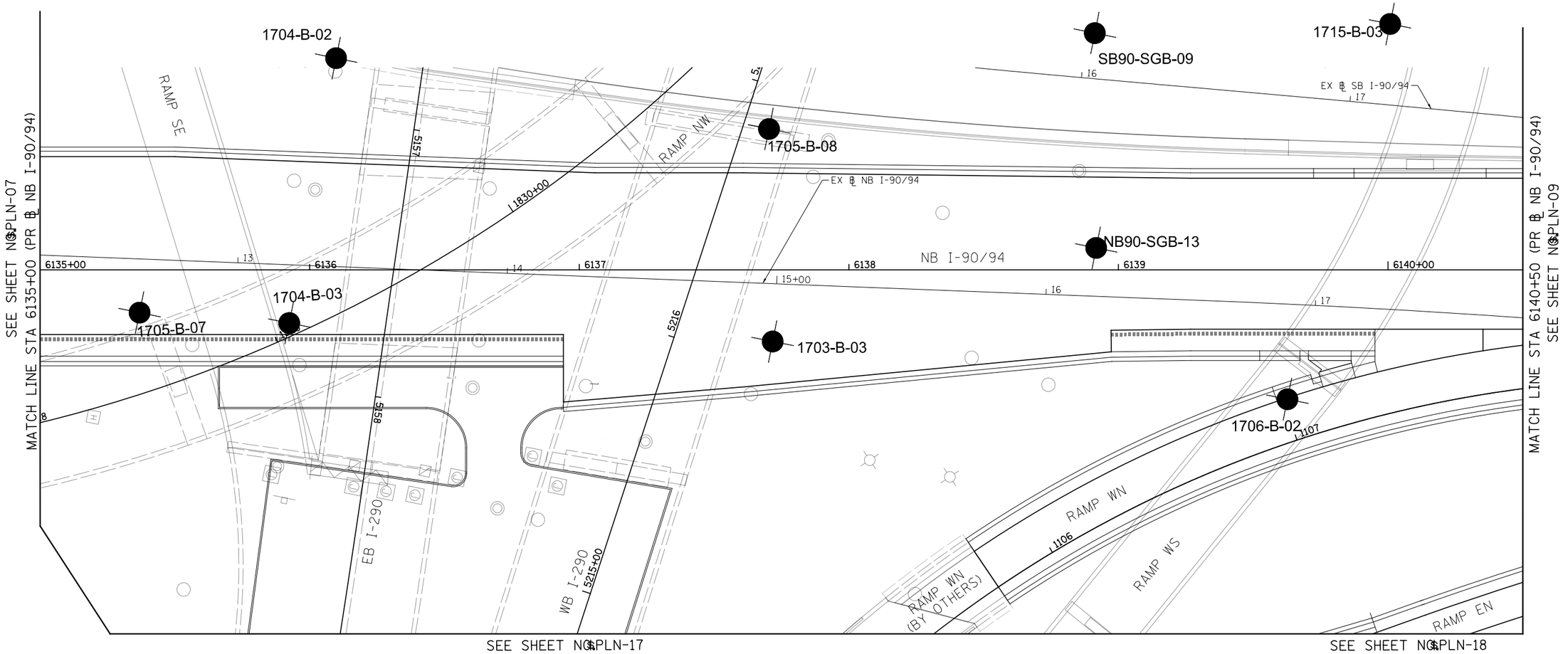
$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $SPLN-07 OF $PLN-TOTSHEETS | STA. 6129+50 TO STA. 6135+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-07
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01 $JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01 $ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.
4. SEE SHEET NO. $PLN-19 MAINTENANCE LOT DETAILS

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

Tran Systems

$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

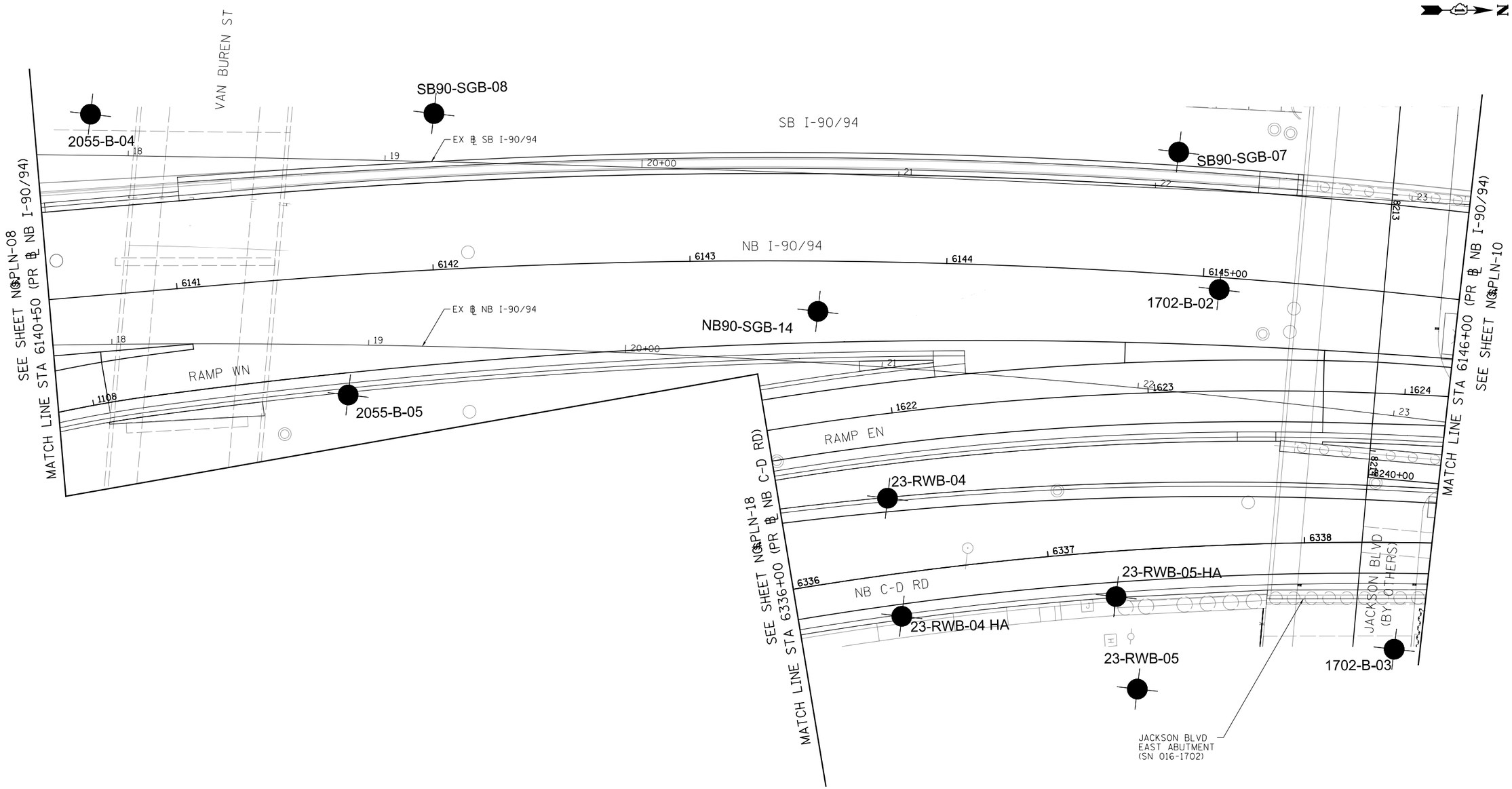
ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-08 OF $PLN-TOT SHEETS | STA. 6135+00 | TO STA. 6140+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-08

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT


N
VAN BUREN ST
SB90-SGB-08
2055-B-04
SB I-90/94
EX ℄ SB I-90/94
SB90-SGB-07
NB I-90/94
EX ℄ NB I-90/94
NB90-SGB-14
1702-B-02
RAMP WN
2055-B-05
RAMP EN
23-RWB-04
23-RWB-05-HA
NB C-D RD
23-RWB-04 HA
23-RWB-05
JACKSON BLVD
(BY OTHERS)
1702-B-03
JACKSON BLVD
EAST ABUTMENT
(SN 016-1702)
SEE SHEET NO. $PLN-08
MATCH LINE STA 6140+50 (PR ℄ NB I-90/94)
SEE SHEET NO. $PLN-10
MATCH LINE STA 6146+00 (PR ℄ NB I-90/94)
SEE SHEET NO. $PLN-18
MATCH LINE STA 6336+00 (PR ℄ NB C-D RD)
6141
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6145+00
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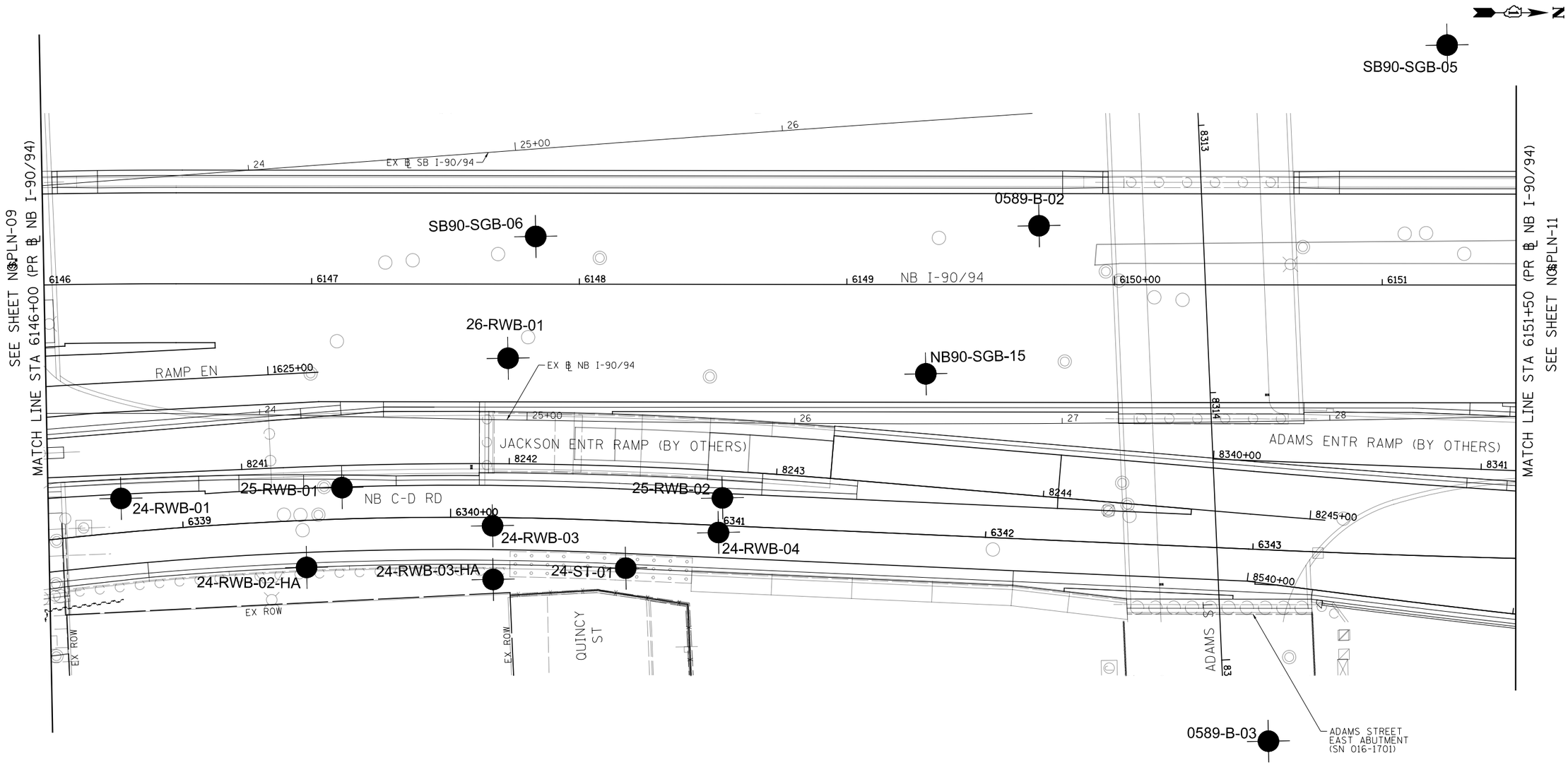


NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

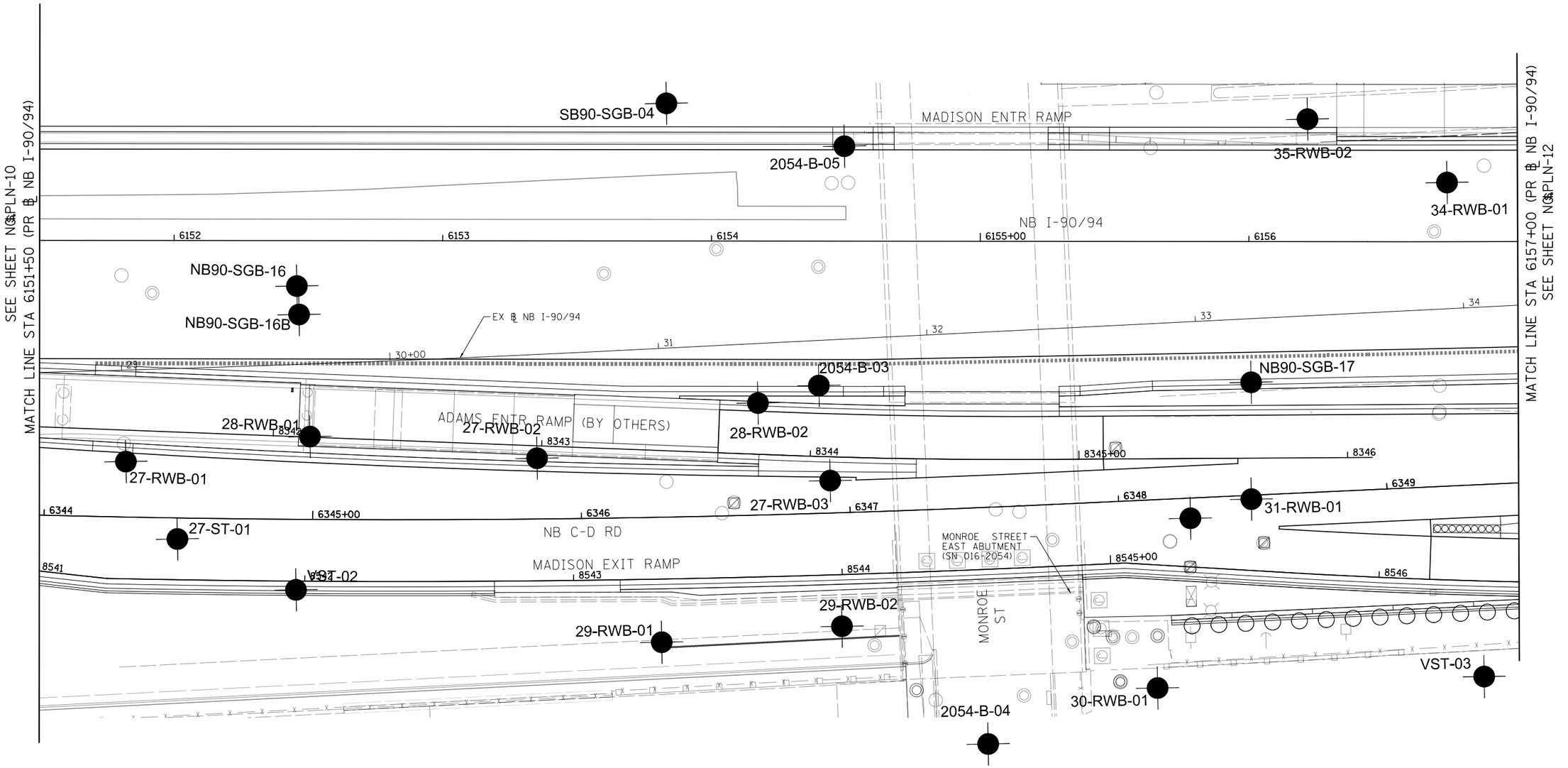
$FILES$	DESIGNED - $PLN-10-DE	REVISED -	
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-10 OF $PLN-TOT SHEETS | STA. 6146+00 | TO STA. 6151+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-10
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01 $JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01 $ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

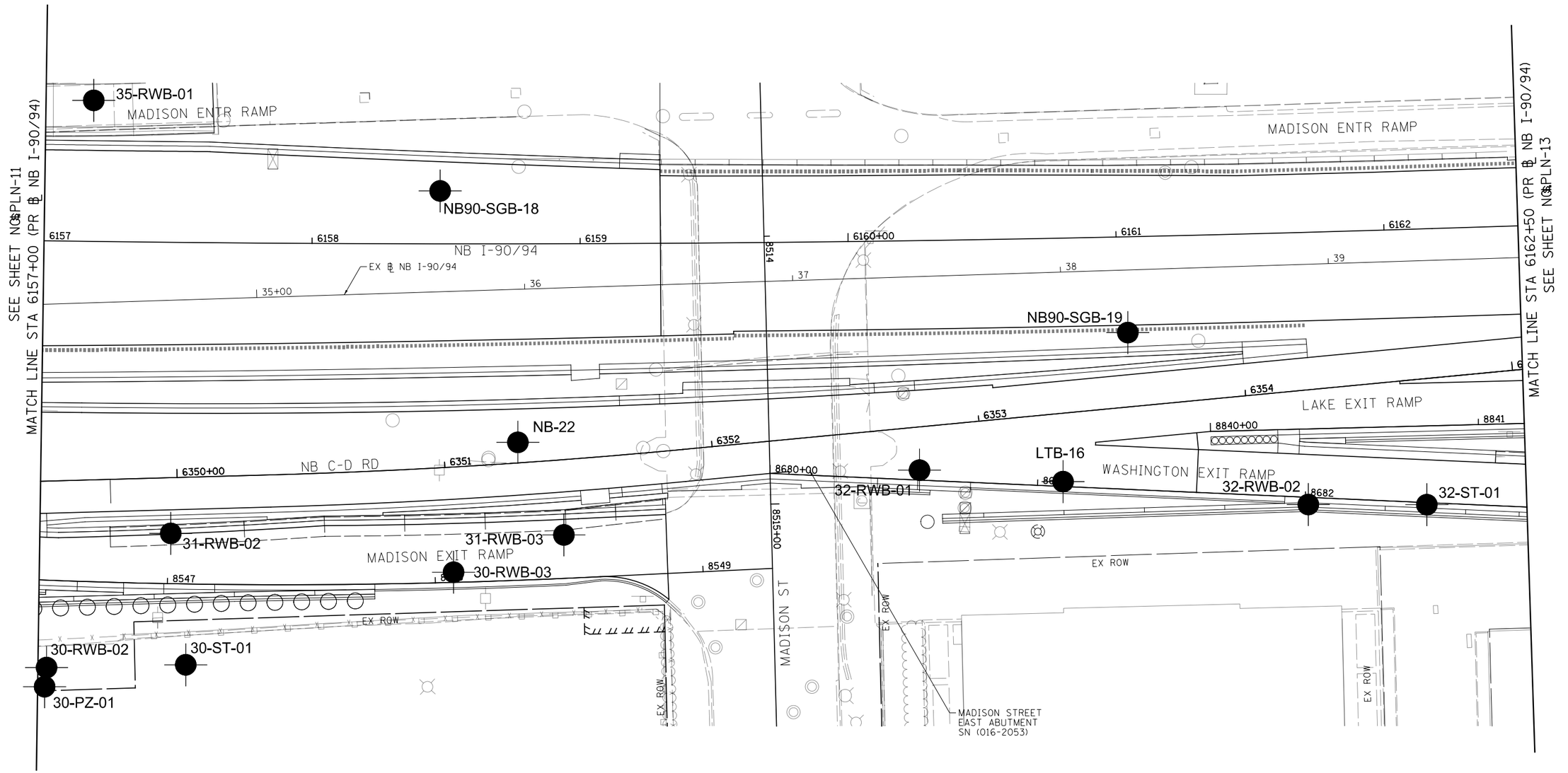
ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-11 OF $PLN-TOTSHEETS | STA. 6151+50 TO STA. 6157+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-11

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems ©

$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

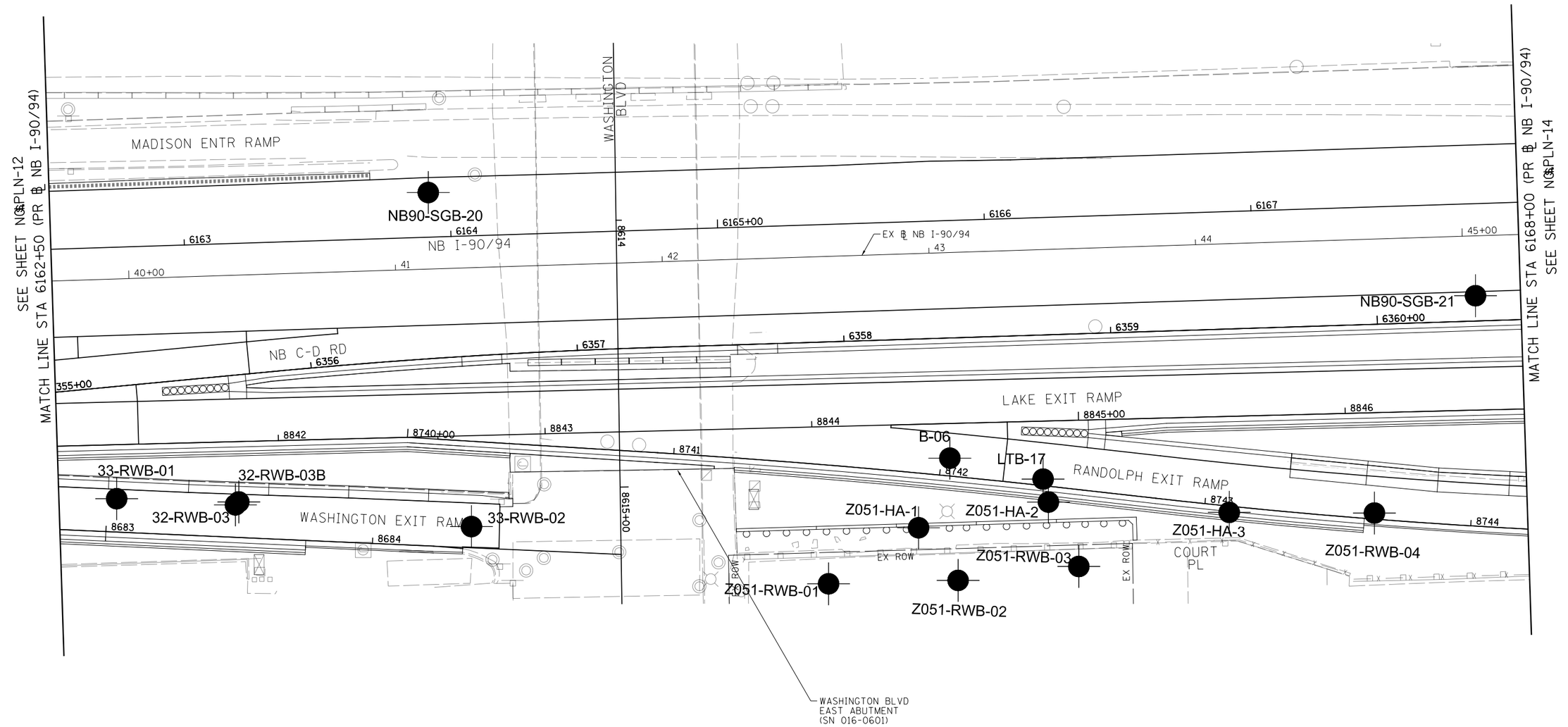
ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $PLN-12 OF $PLN-TOTSHEETS | STA. 6157+00 TO STA. 6162+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-12

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTF01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems ©

$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

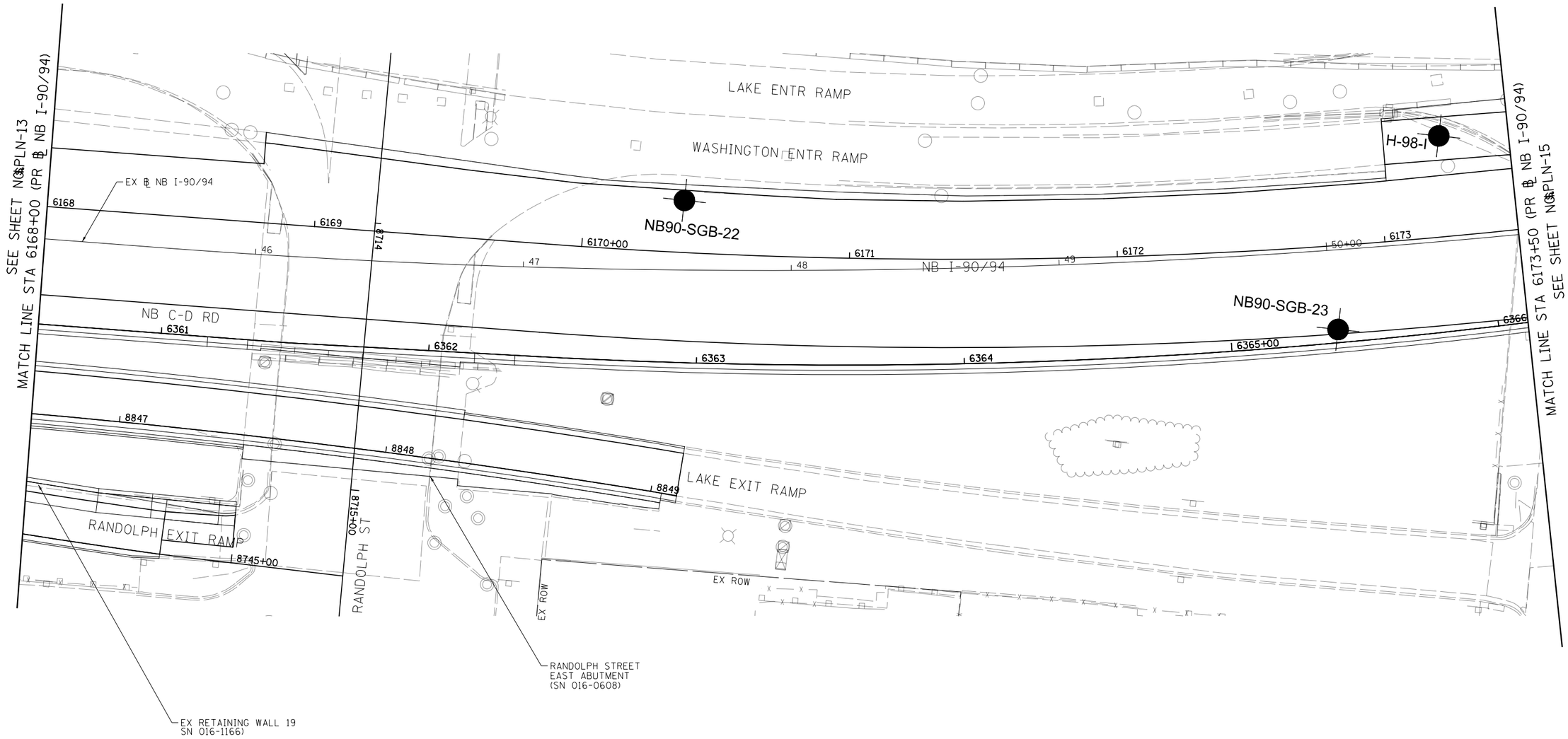
ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $SPLN-13 OF $PLN-TOTSHEETS | STA. 6162+50 | TO STA. 6168+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-13

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTED01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATED-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

Tran Systems

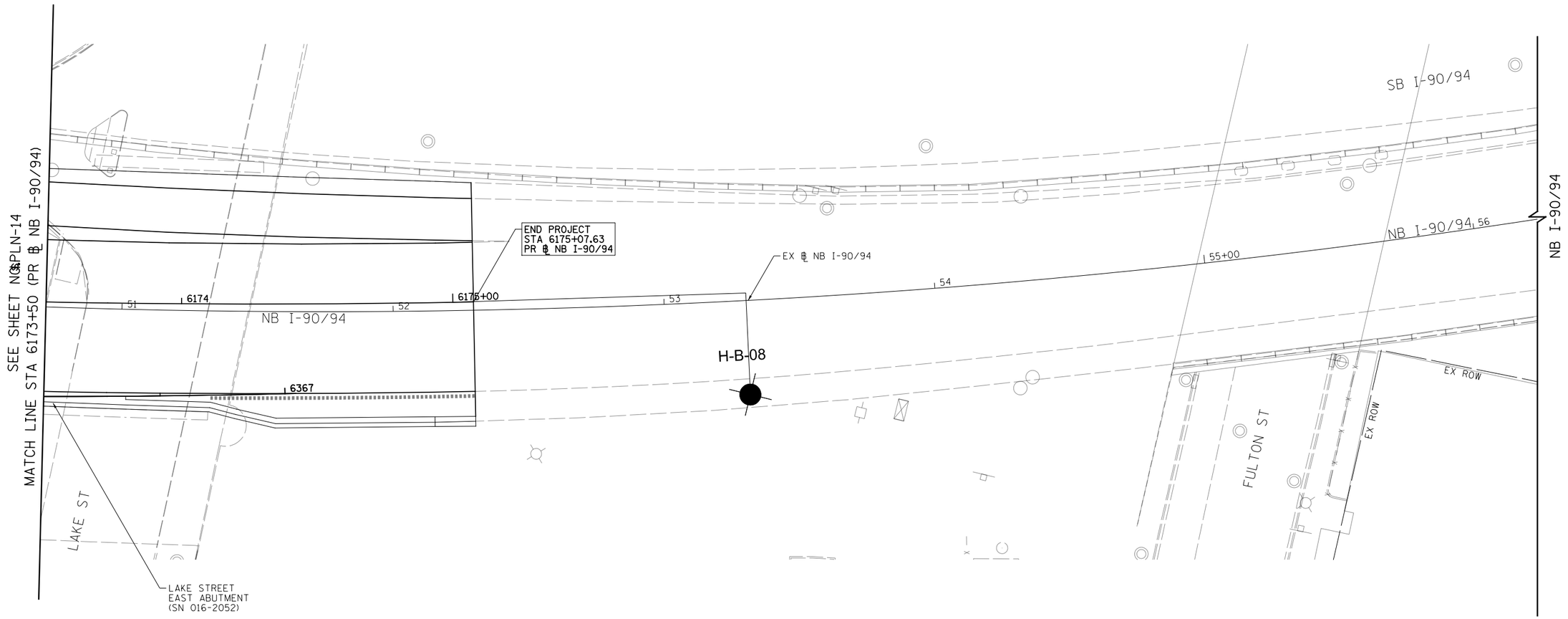
$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $SPLN-14 OF $PLN-TOTSHEETS | STA. 6168+00 | TO STA. 6173+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-14
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTED01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATED-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

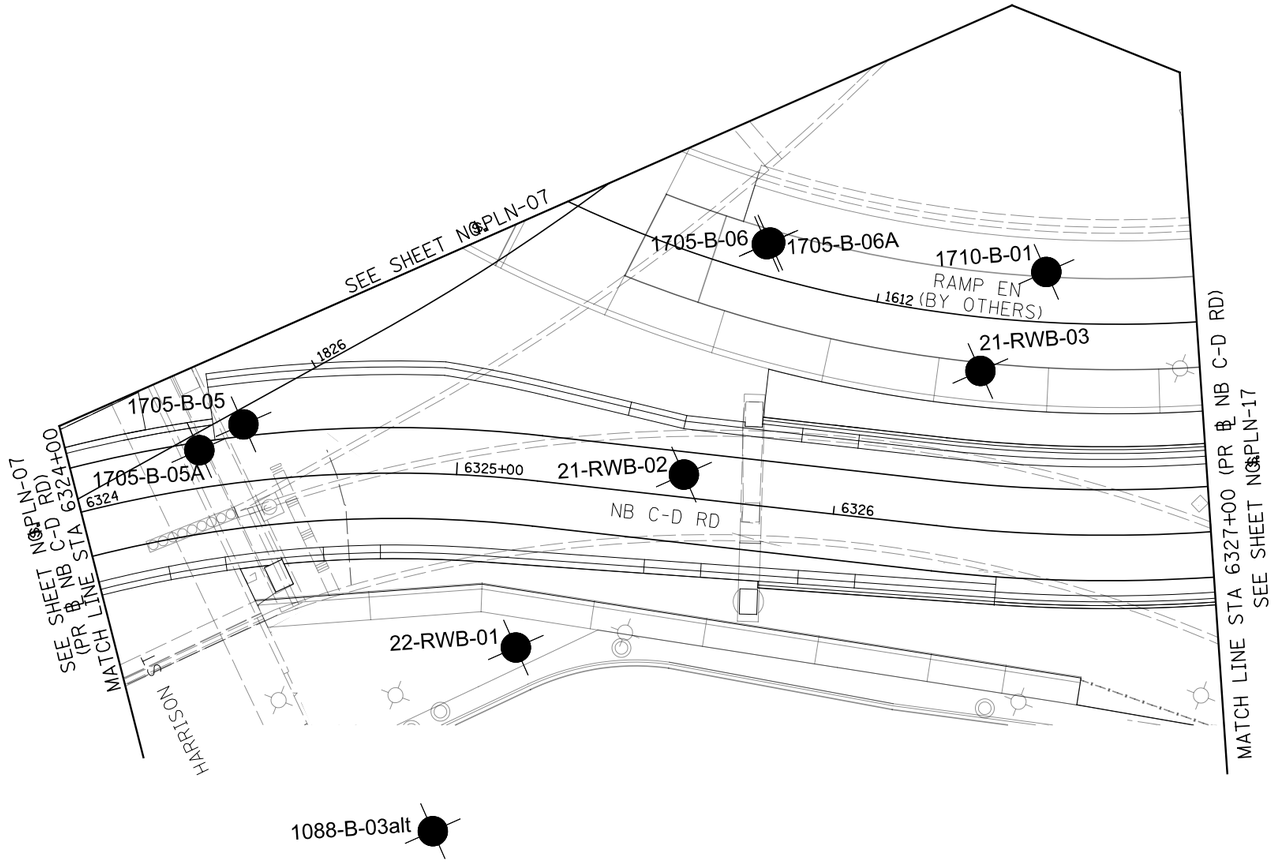
$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $$PLN-15 OF $PLN-TOTSHEETS | STA. 6173+50 | TO STA. 6175+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-15
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNTTO1$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATTO1$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

© TranSystems

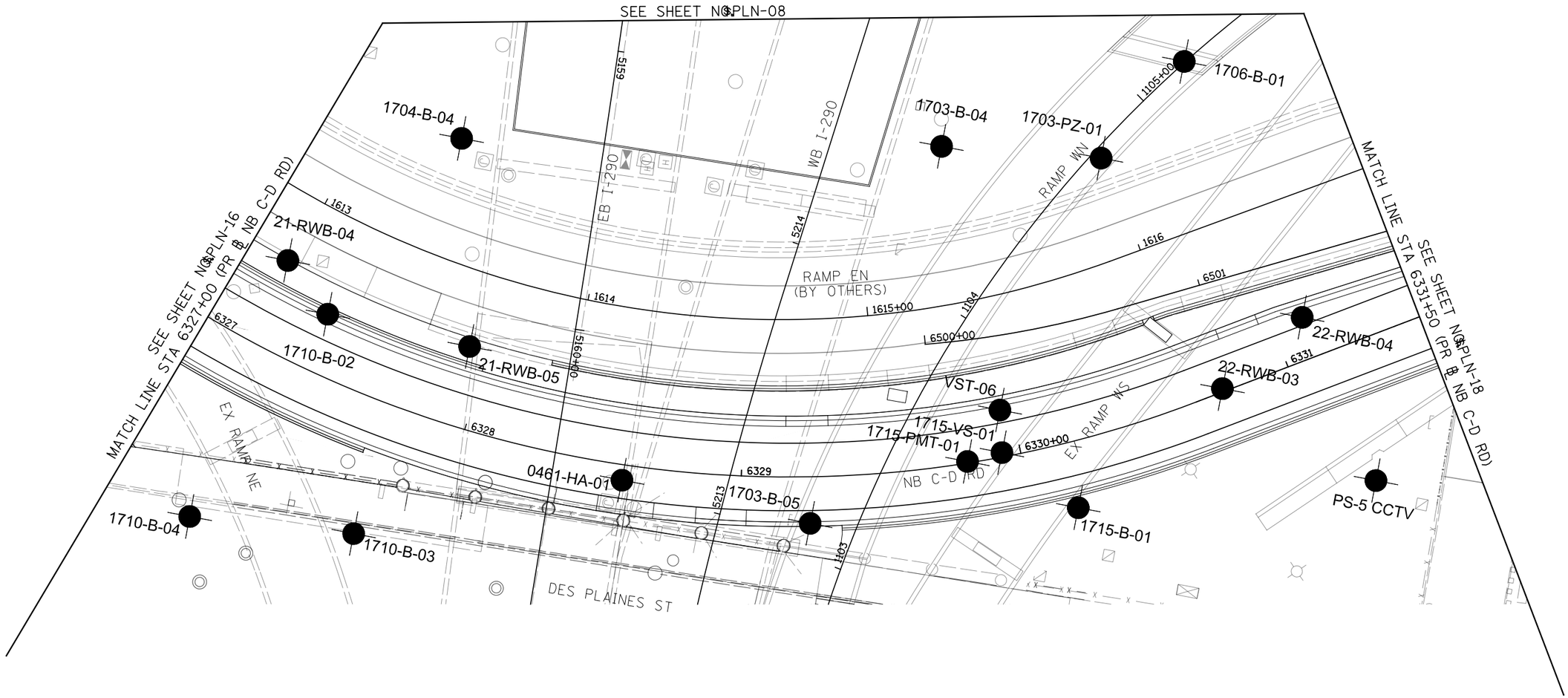
$FILES$	DESIGNED - $PLN-10-DE	REVISED -	
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
NB C-D ROAD

SCALE: 1"=20' | SHEET $PLN-16 OF PLN-TOTSHEETS | STA. 6324+00 | TO STA. 6327+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-16
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01 - $JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01 - $ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.
4. SEE SHEET NO. $PLN-19 FOR MAINTENANCE LOT DETAILS

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

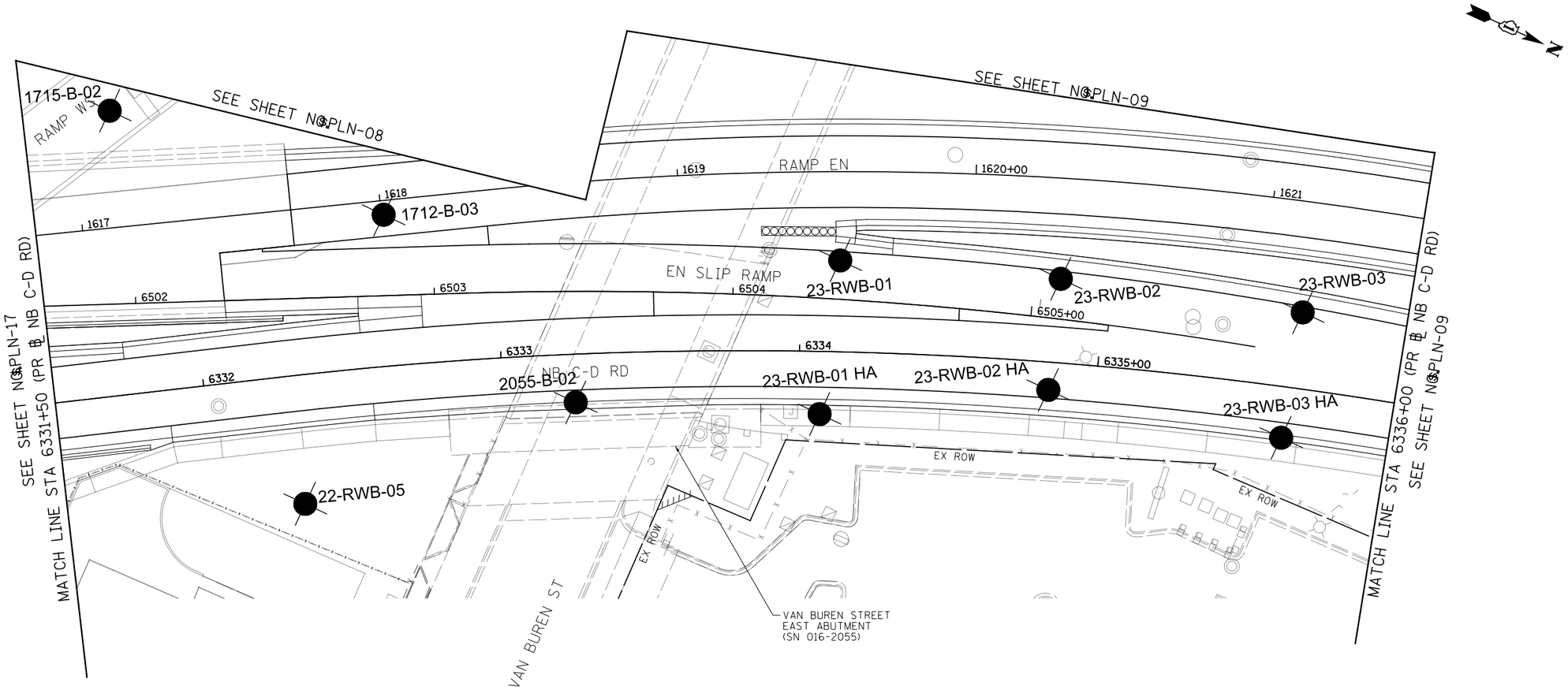
$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
NB C-D ROAD

SCALE: 1"=20' | SHEET $PLN-17 OF $PLN-TOTSHEETS | STA. 6327+00 TO STA. 6331+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-17
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $JNT-01$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. $ATB-01$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED.

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

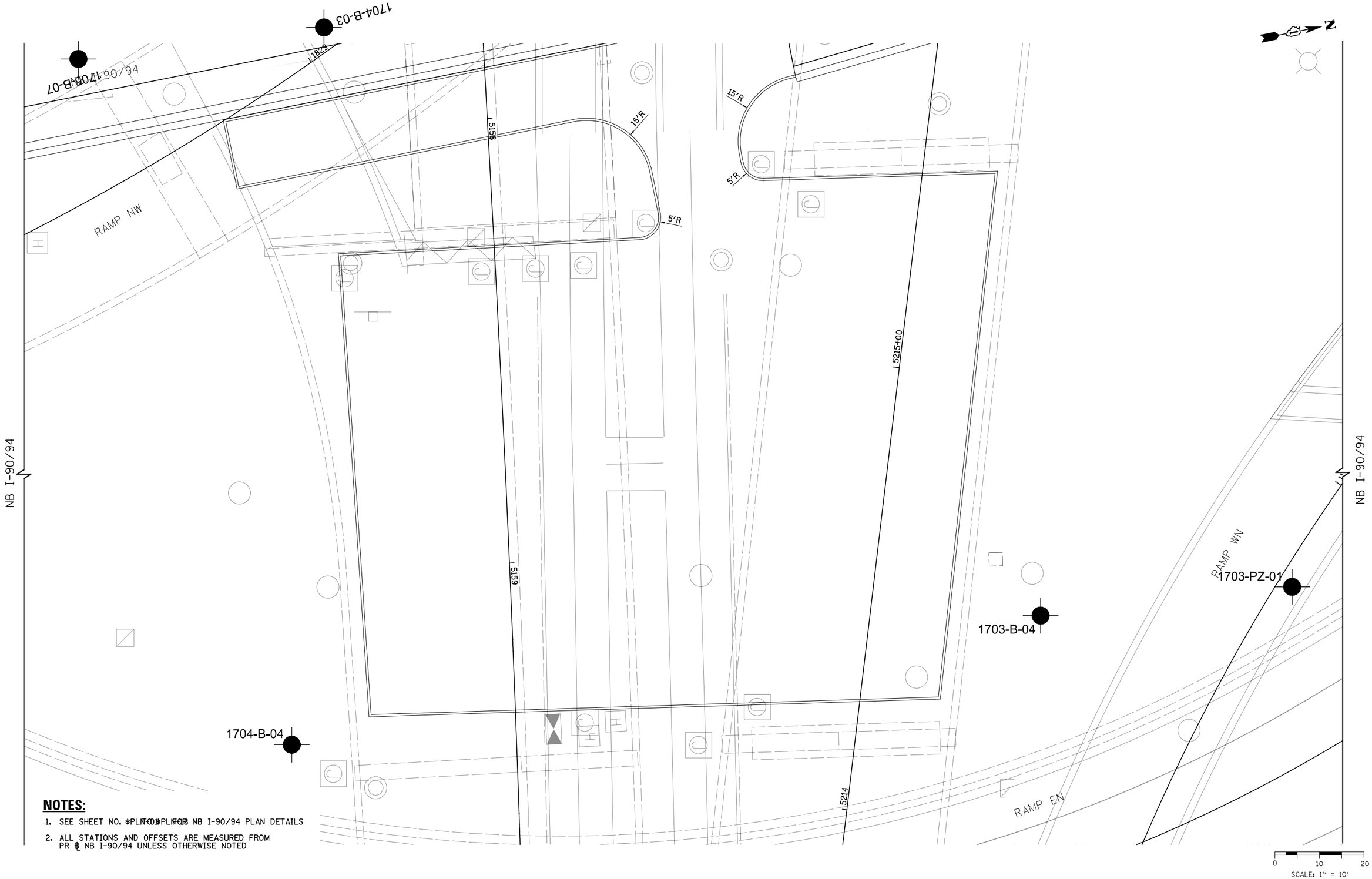
$FILES$	DESIGNED - $PLN-10-DE	REVISED -	
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
NB C-D ROAD

SCALE: 1"=20' | SHEET $PLN-18 OF $PLN-TOTSHEETS | STA. 6331+50 TO STA. 6336+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-18
		CONTRACT NO. 62A76		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE SHEET NO. $PLN-01 FOR NB I-90/94 PLAN DETAILS
2. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ℄ NB I-90/94 UNLESS OTHERWISE NOTED

FILE PATH = $FILEL$

TranSystems

$FILES$	DESIGNED - $PLN-19-DE	REVISED -	
USER NAME = $USER$	DRAWN - $PLN-19-DR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - $PLN-19-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

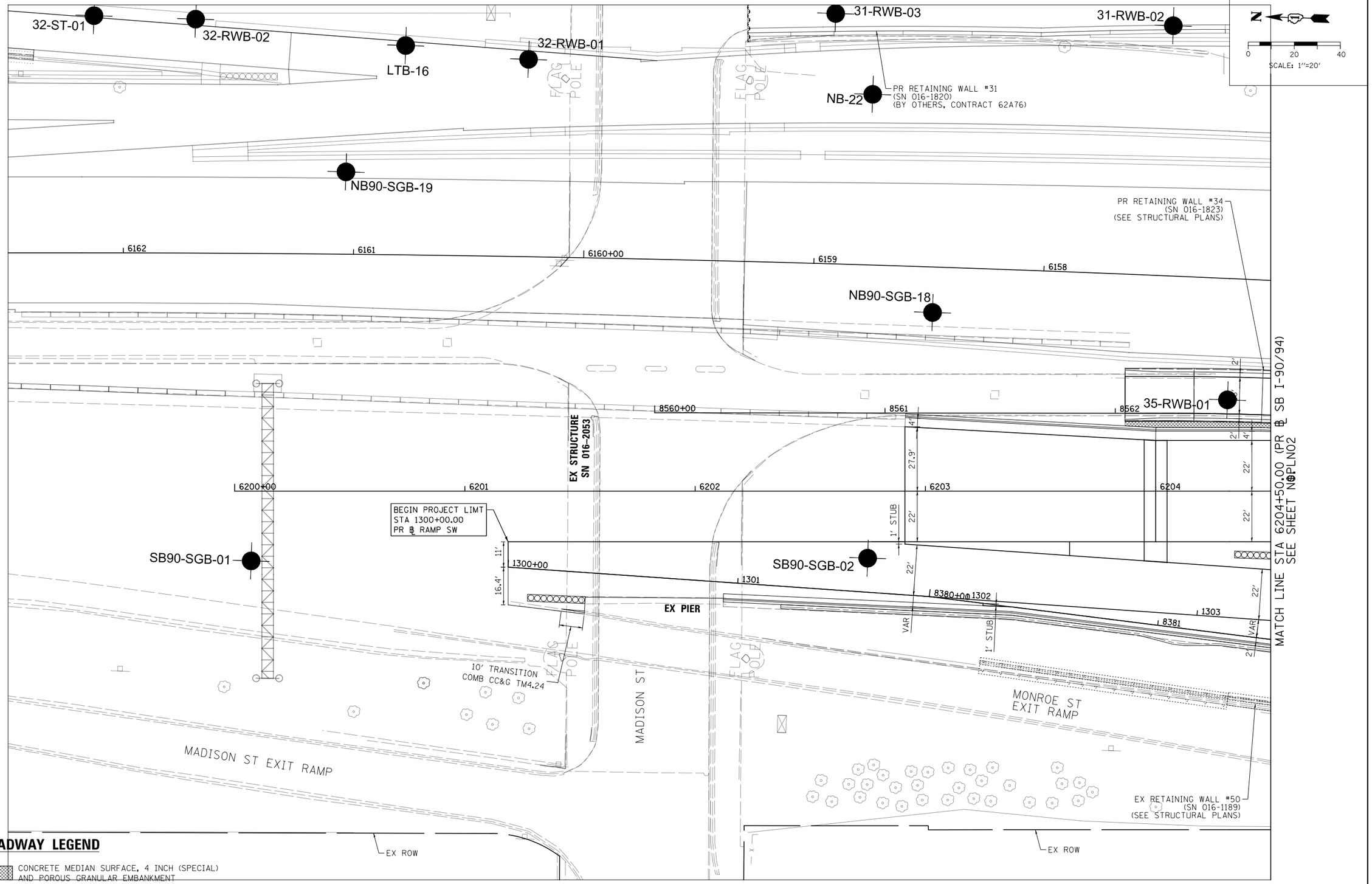
ROADWAY PLAN
I-90/94 MAINTENANCE LOT

SCALE: 1"=10' | SHEET $PLN-19 OF $PLN-TOTSHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PLN-19

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

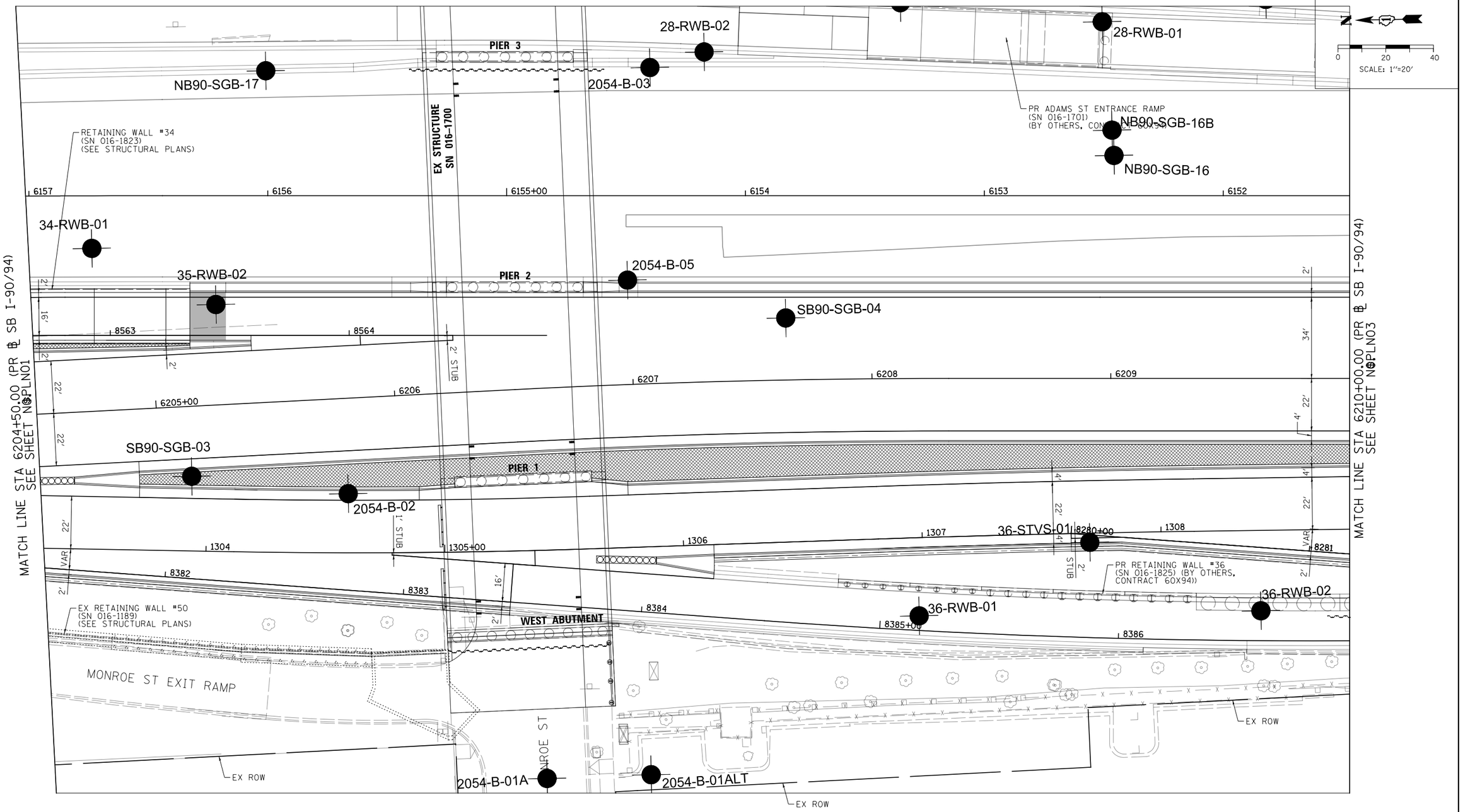
$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 1 OF $PLNSHEETS | STA. 6202+91.11 TO STA. 6204+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN01
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE1$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

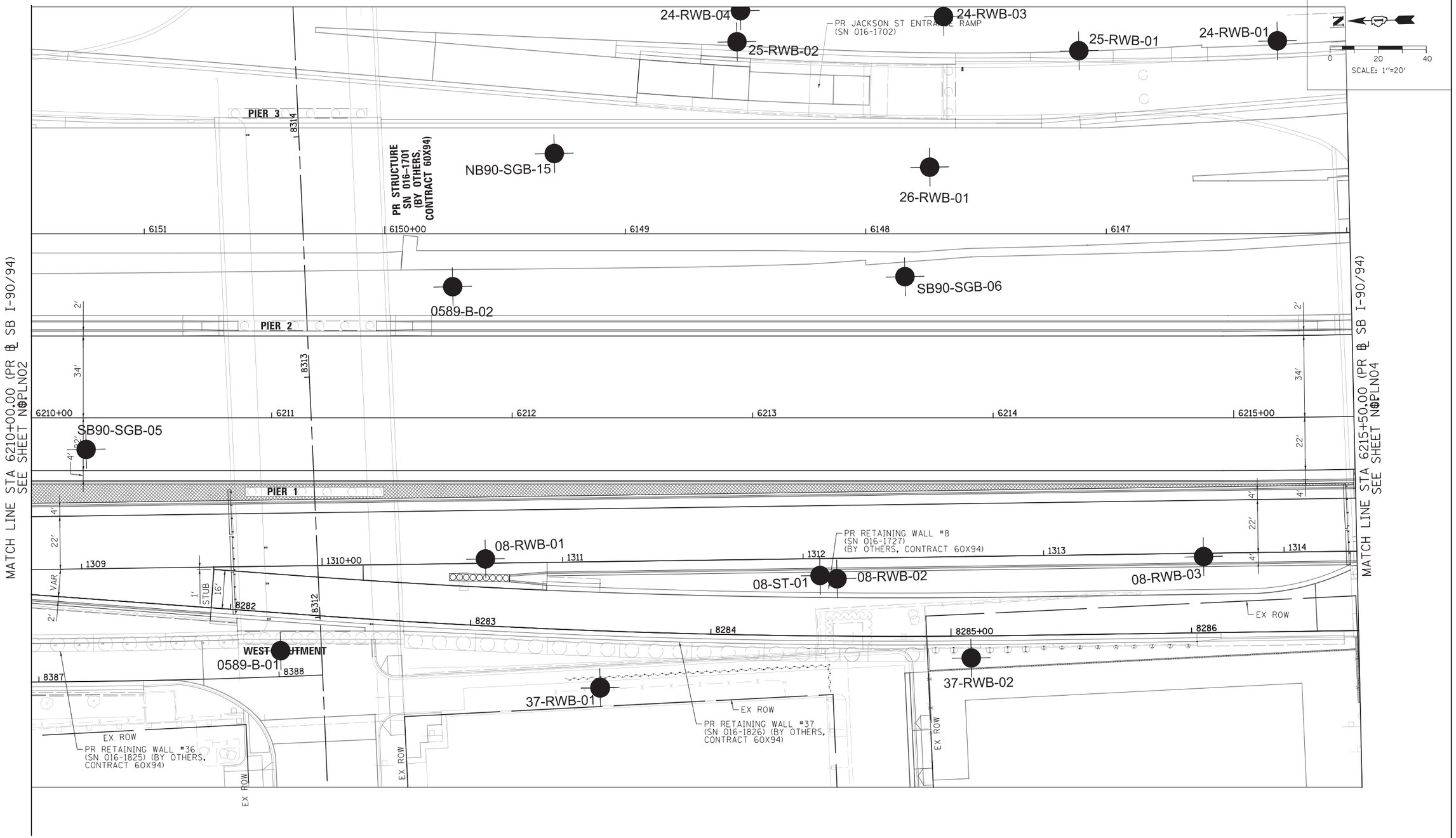
$FILE$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 2 OF $PLNSHEETS | STA. 6204+50.00 TO STA. 6210+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN02
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

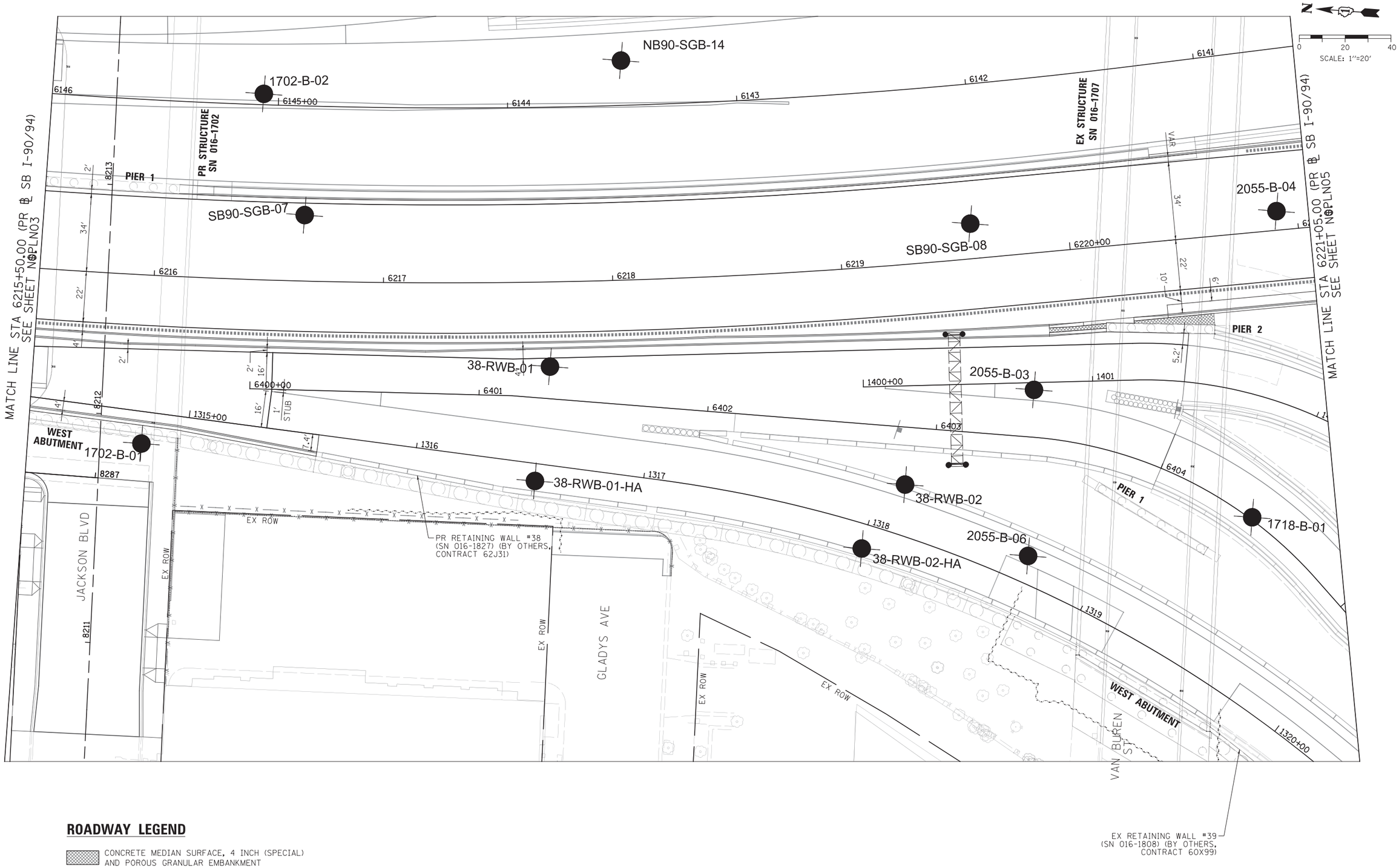
$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 3 OF $PLNSHEETS | STA. 6210+00.00 TO STA. 6215+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN03
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			

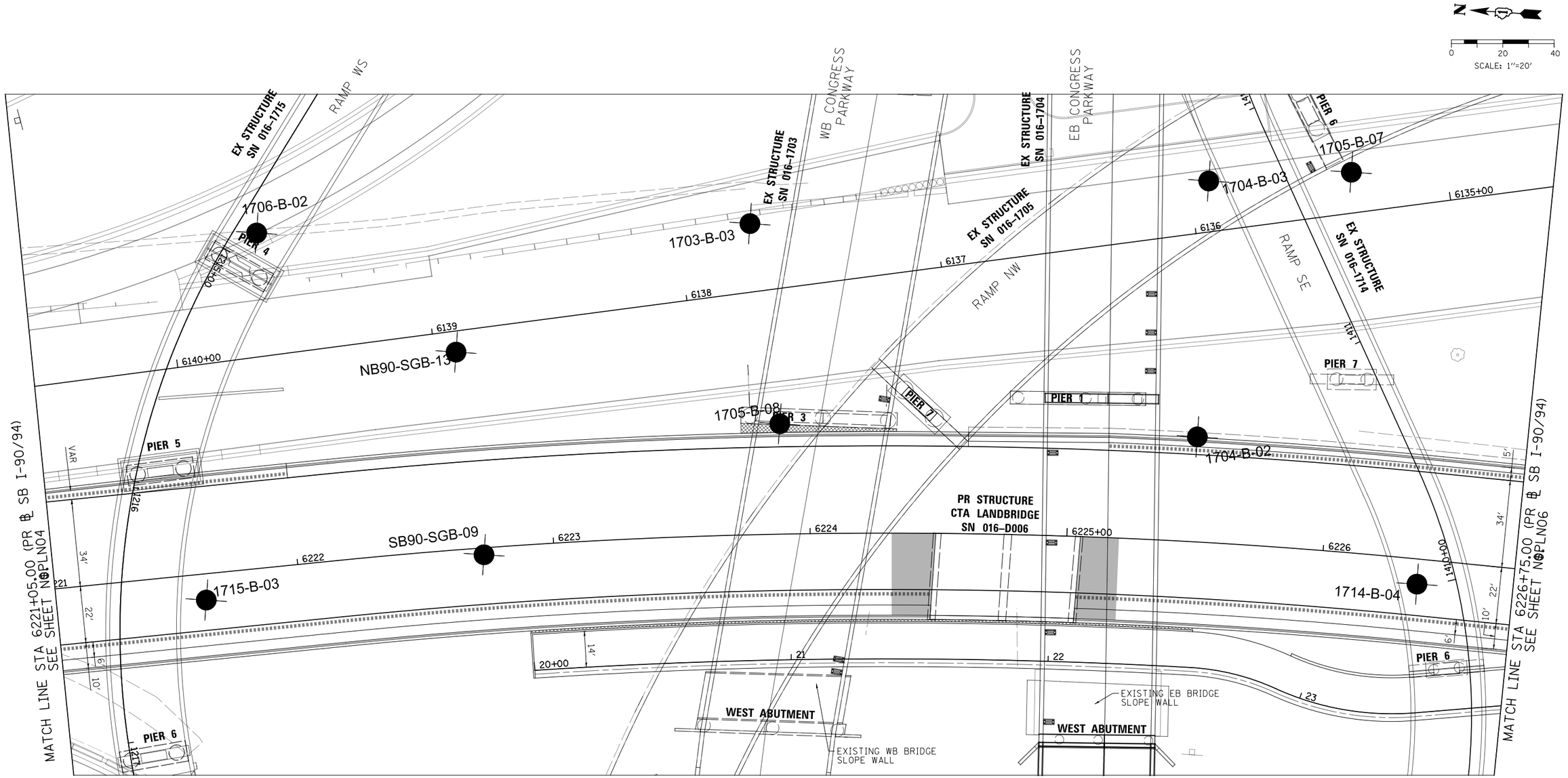


ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILEL$

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	$FILES$	DESIGNED - OPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN SB I-90/94	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = $USER$	DRAWN - ZND	REVISED -			90/94/290	2015-018R	COOK	$TOTAL	$PLN04
	PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -					CONTRACT NO. 62A77		
	PLOT DATE = $DATE$	DATE - $DATE	REVISED -		SCALE: 1"=20' SHEET 4 OF $PLNSHEETS STA. 6215+50.00 TO STA. 6221+05.00		ILLINOIS FED. AID PROJECT			



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

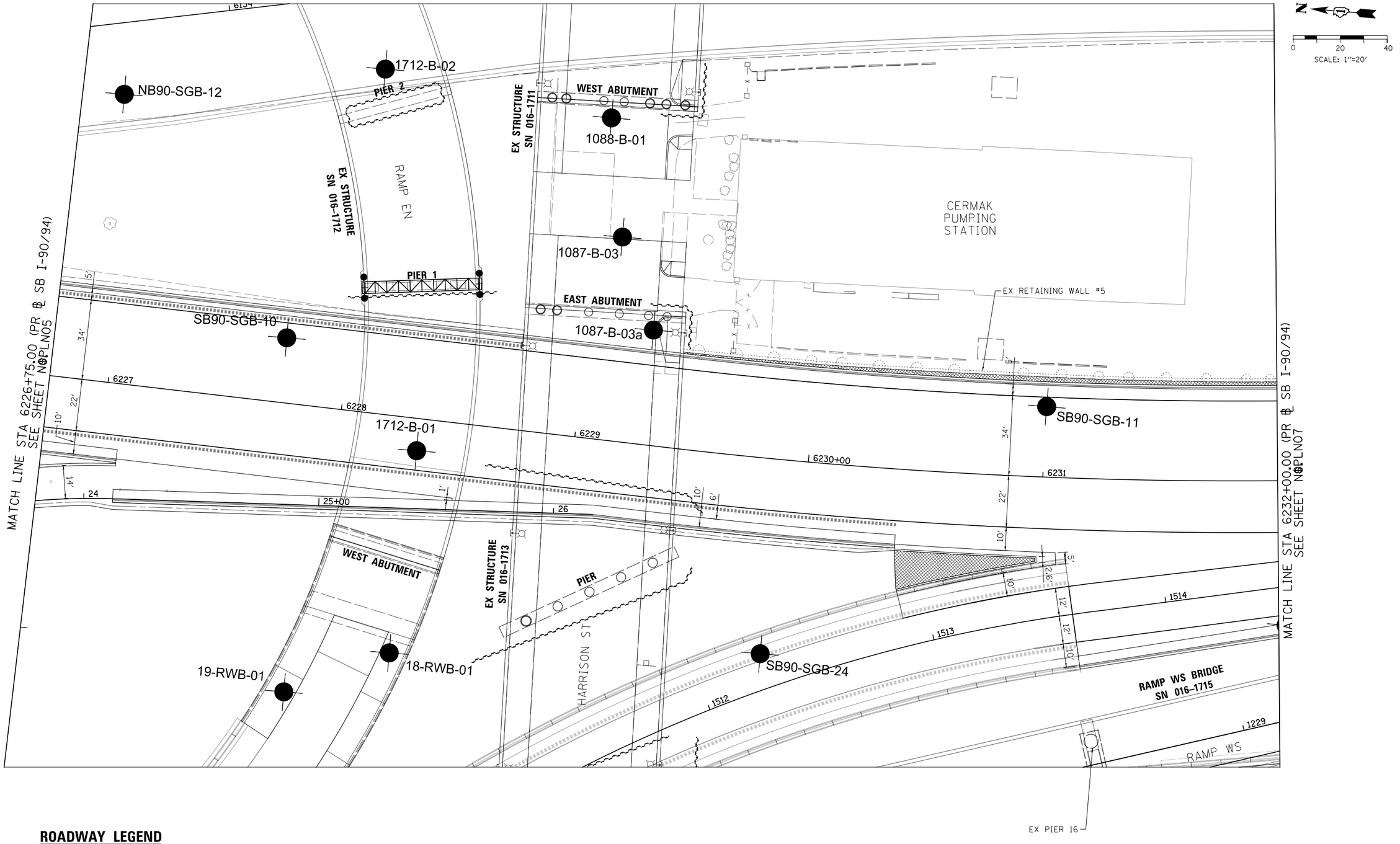
ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 5 OF $PLNSHEETS | STA. 6221+05.00 | TO STA. 6226+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN05

CONTRACT NO. 62A77

ILLINOIS | FED. AID PROJECT



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

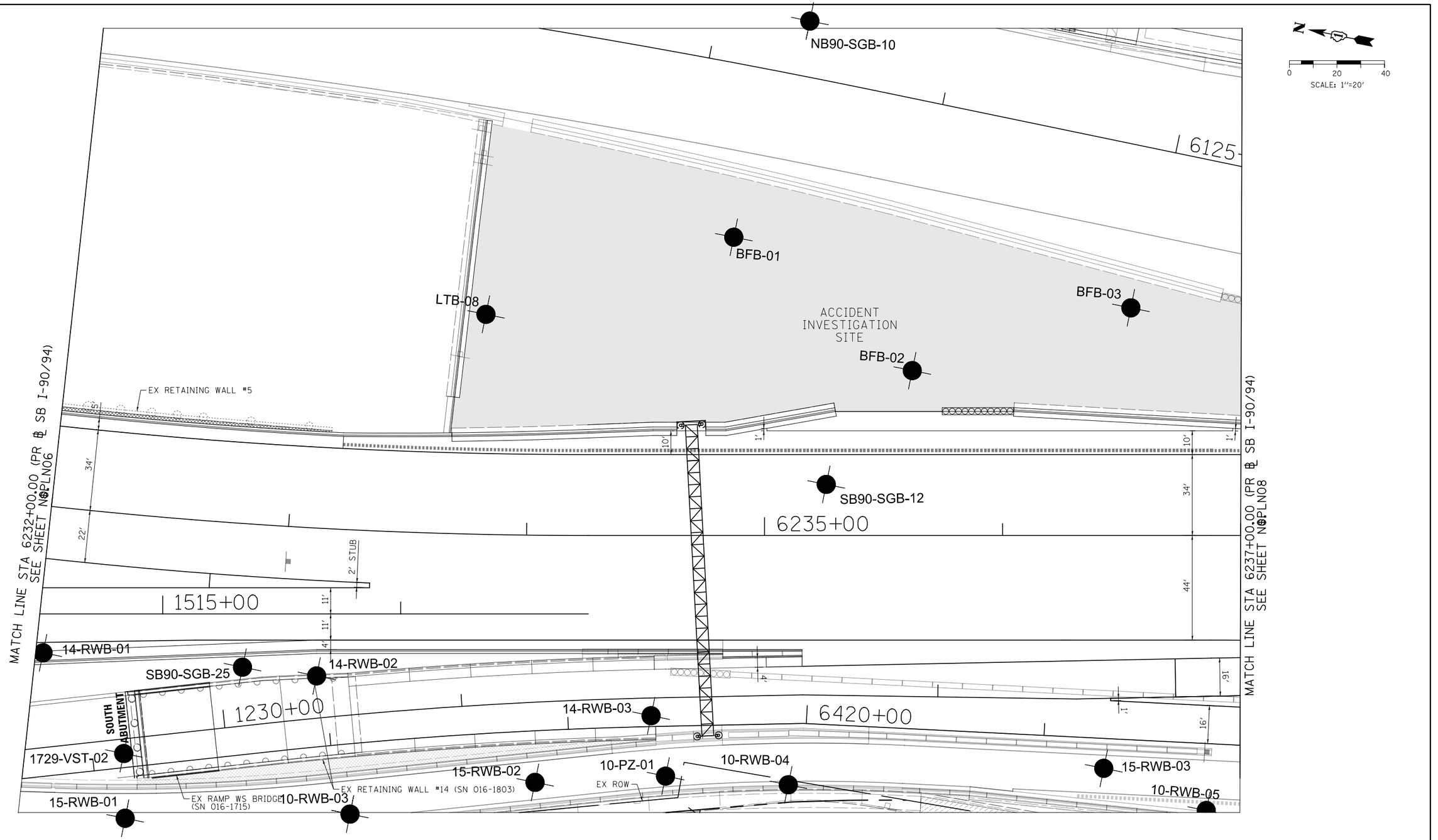
$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 6 OF $PLNSHEETS | STA. 6226+75.00 TO STA. 6232+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN06
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

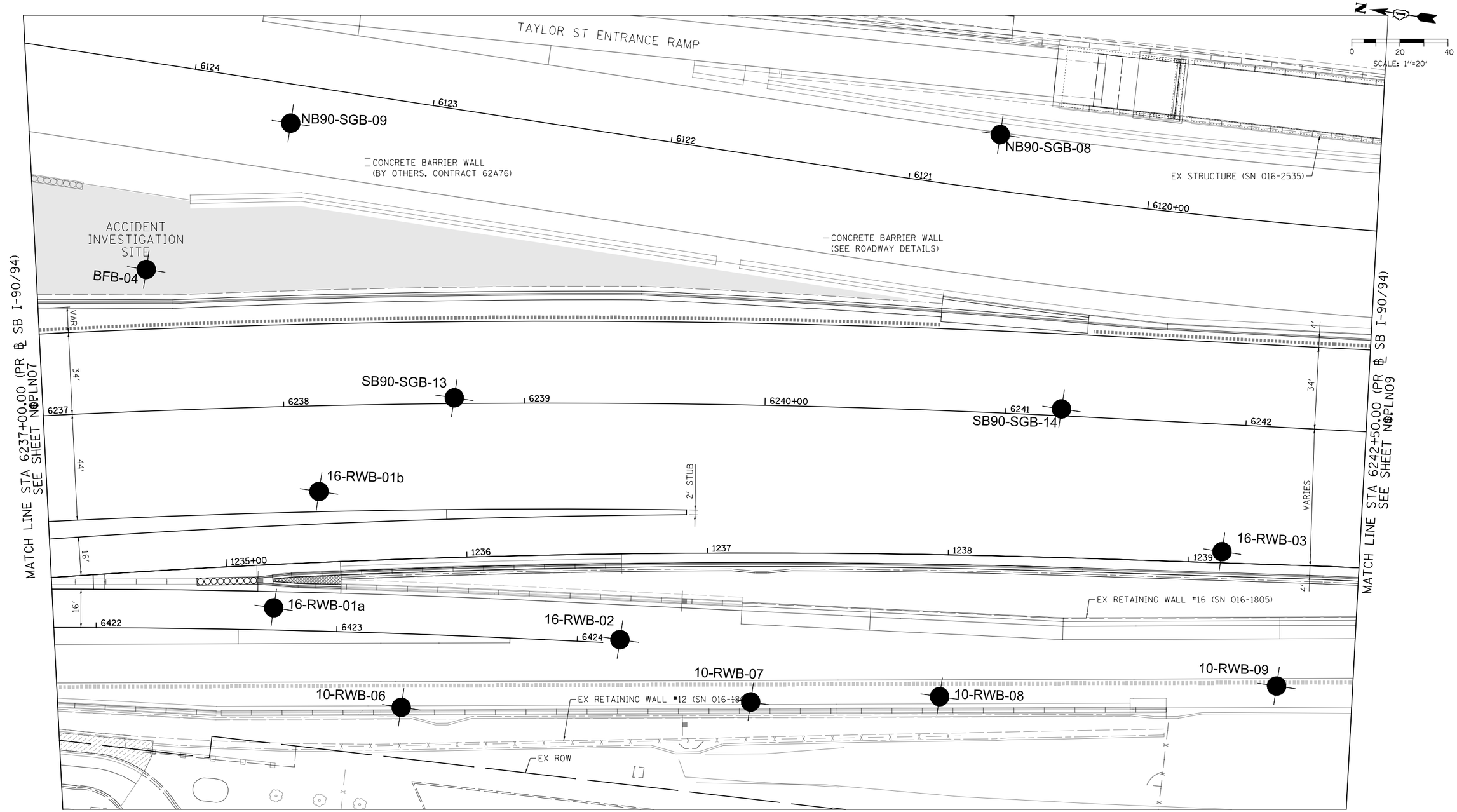
$FILE$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 7 OF $PLNSHEETS | STA. 6232+00.00 TO STA. 6237+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN07
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE1$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

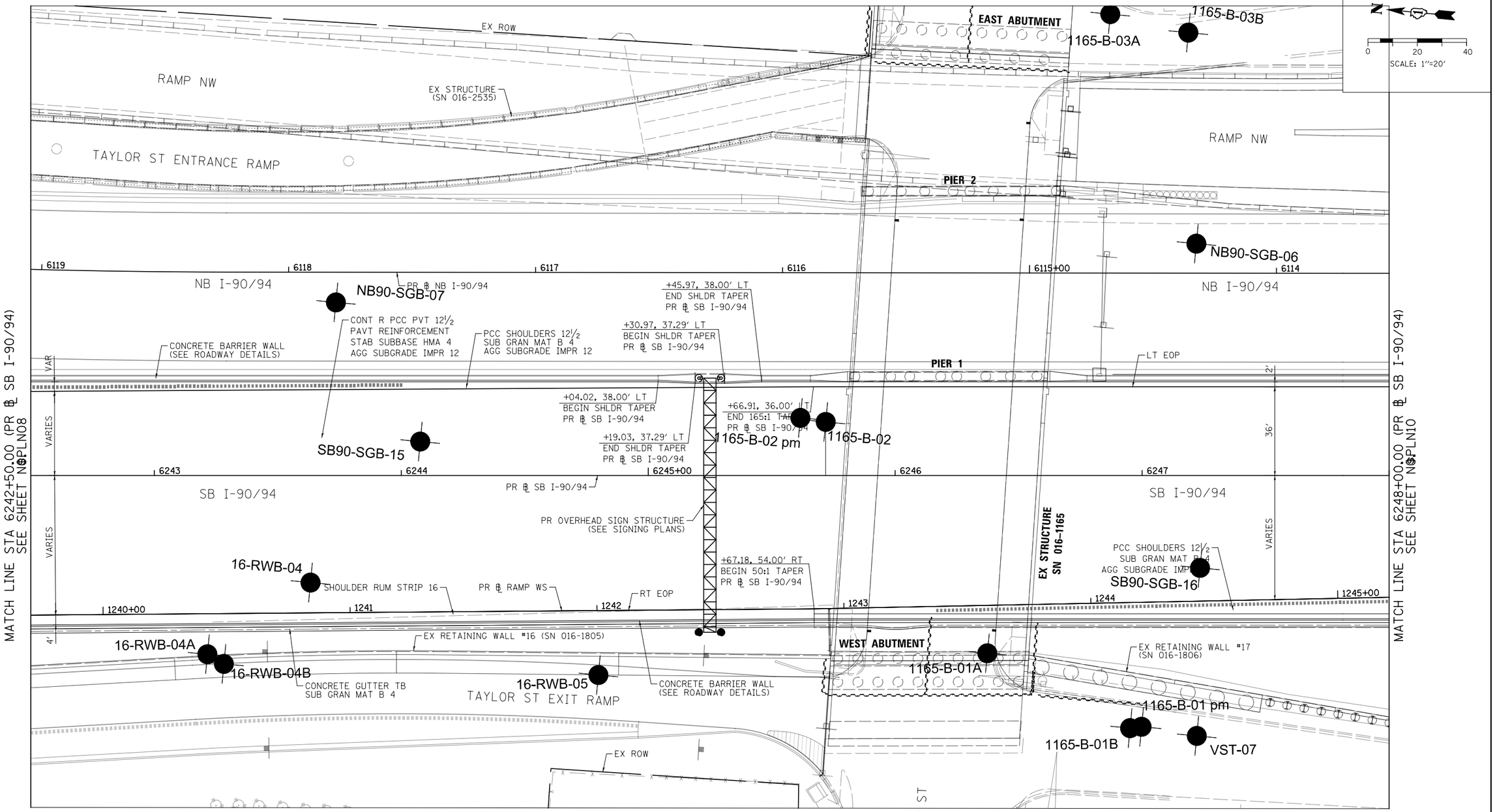
ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 8 OF $PLNSHEETS | STA. 6237+00.00 TO STA. 6242+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN08

CONTRACT NO. 62A77

ILLINOIS FED. AID PROJECT



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE1$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

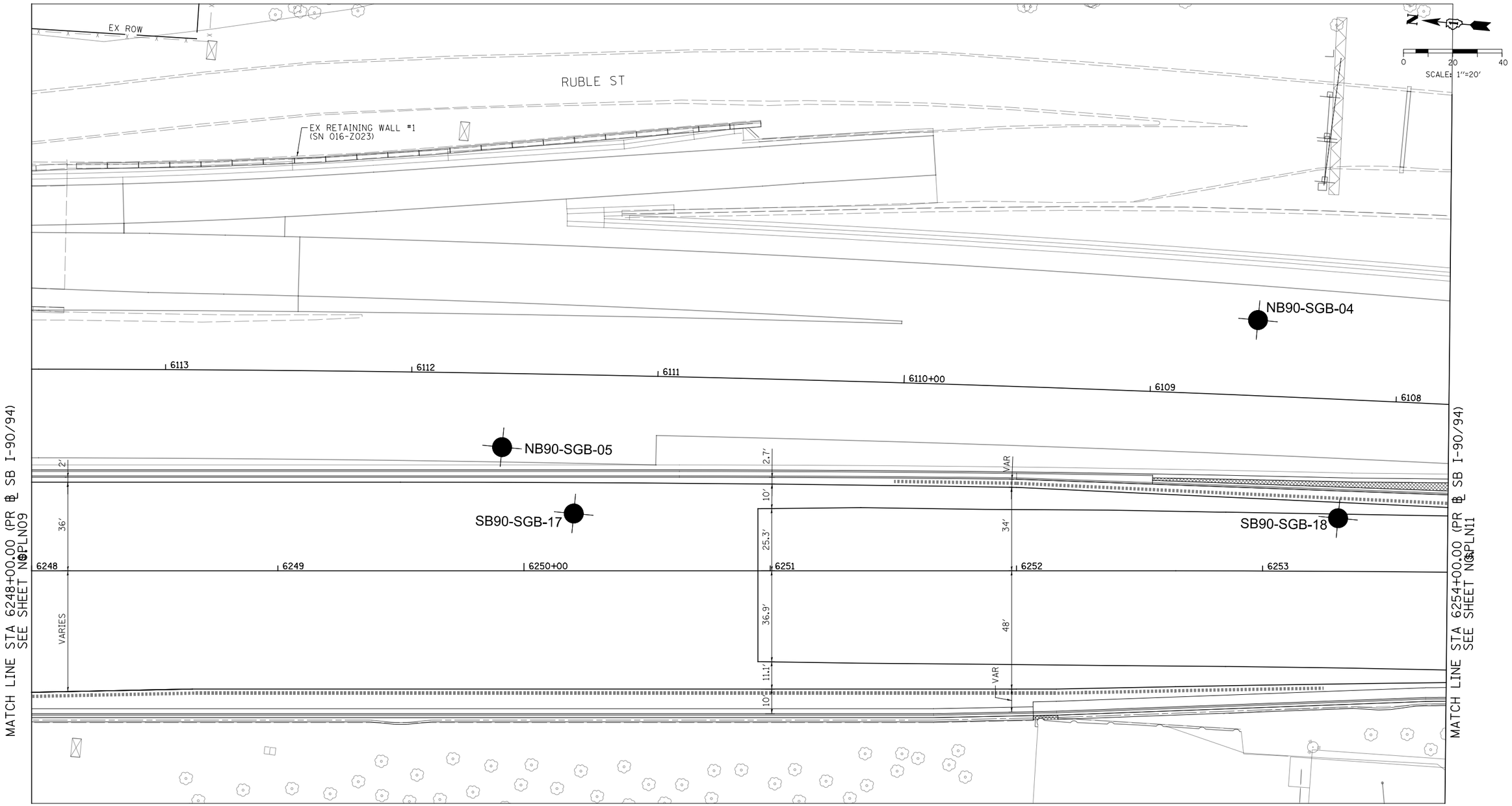
ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 9 OF $PLNSHEETS | STA. 6242+50.00 TO STA. 6248+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLNO9

CONTRACT NO. 62A77

ILLINOIS FED. AID PROJECT



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE1$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

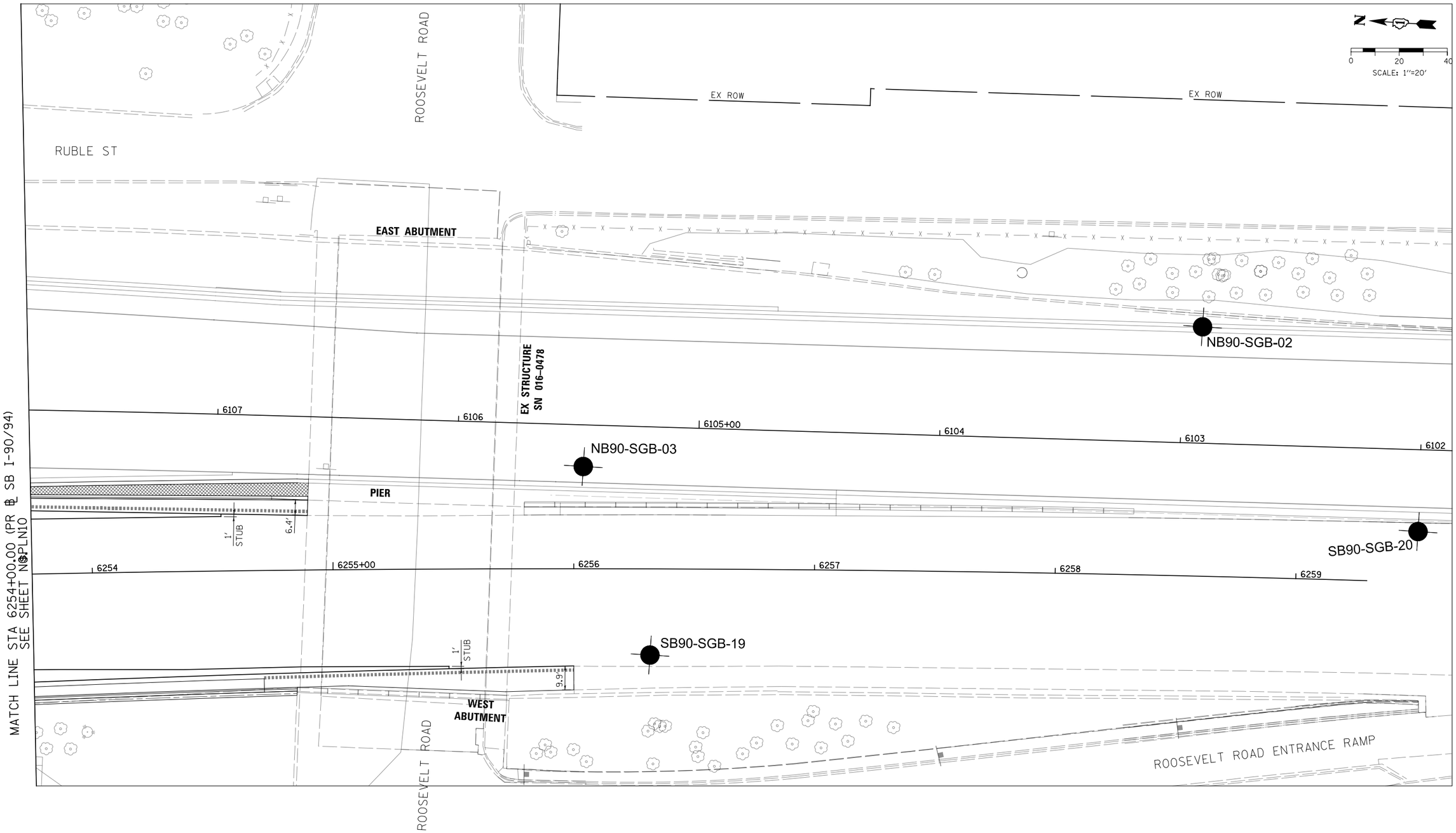
$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 10 OF $PLNSHEETS | STA. 6248+00.00 TO STA. 6254+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN10
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = $FILE1$

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

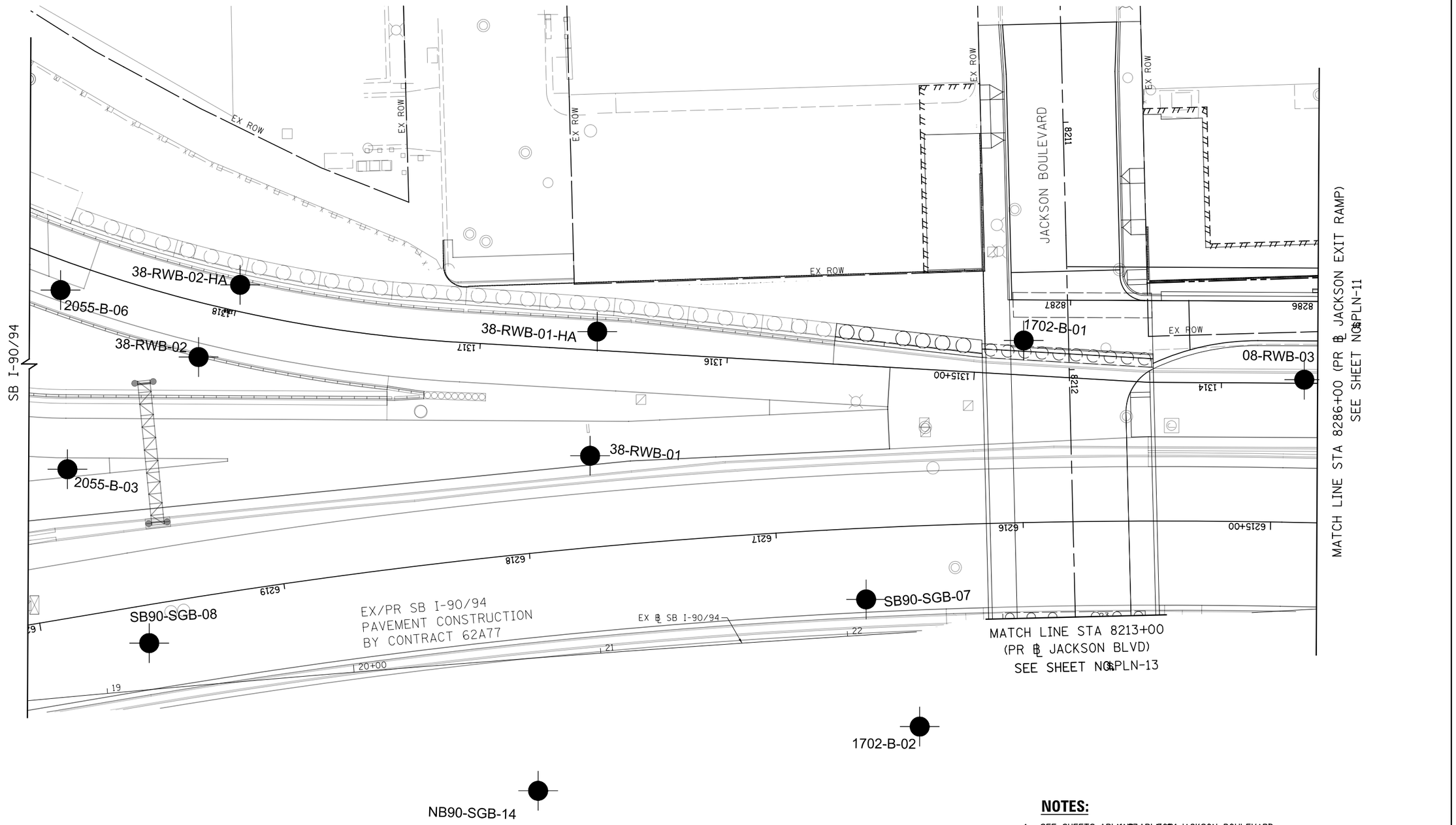
$FILES$	DESIGNED - OPS	REVISED -
USER NAME = $USER$	DRAWN - ZND	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB I-90/94

SCALE: 1"=20' | SHEET 11 OF $PLNSHEETS | STA. 6254+00.00 TO STA. 6259+29.52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PLN11
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE SHEETS $PLN-03 AND $PLN-04 FOR JACKSON BOULEVARD ROADWAY PLAN.

0 20 40

SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems ©

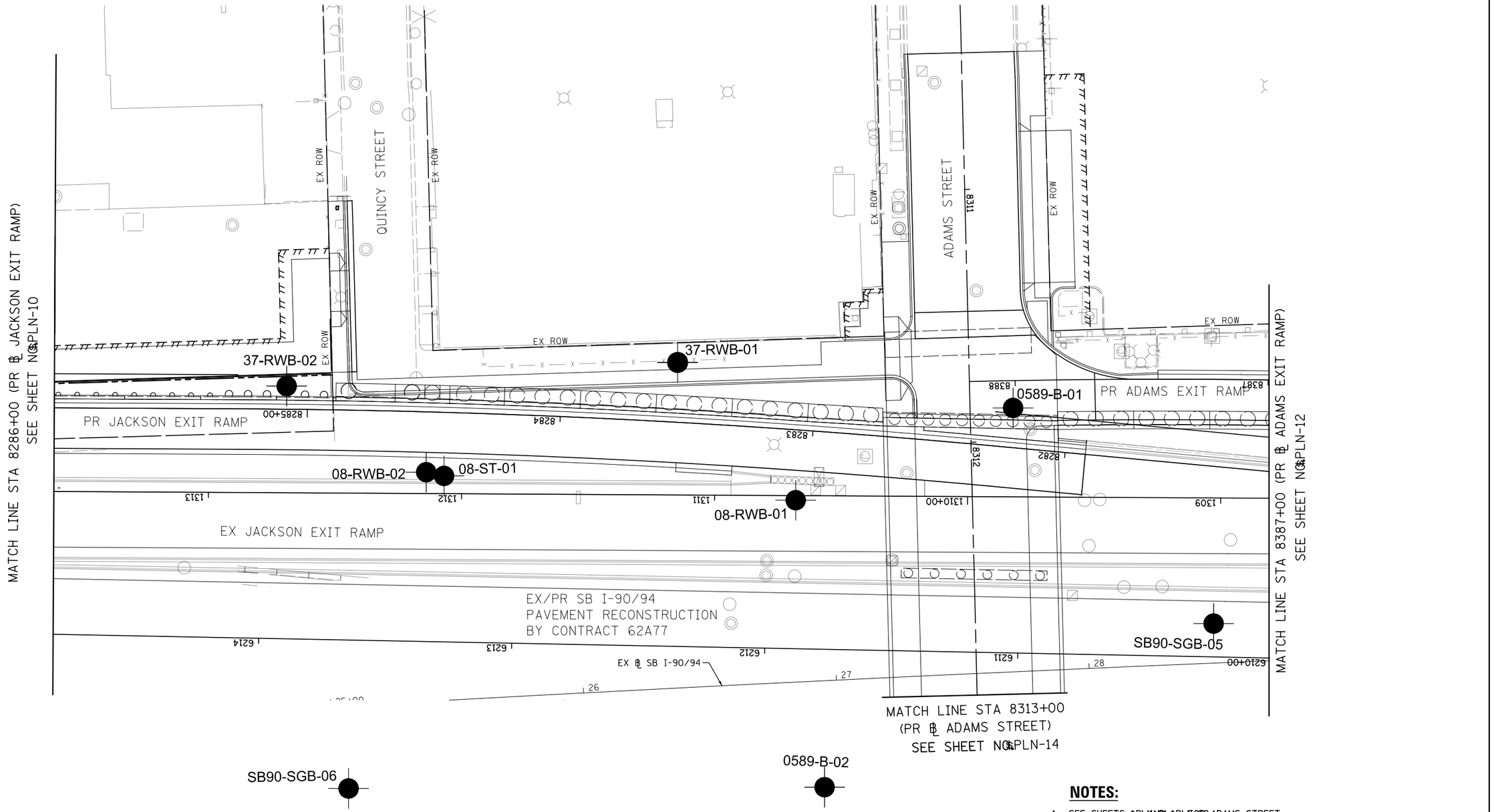
$FILES$	DESIGNED - $PLN-09-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-09-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-09-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $$PLN-10 OF $PLN-SHEETS | STA. 6120+00 | TO STA. 8286+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-10
		CONTRACT NO. 60X94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE SHEETS $PLN-01 & $PLN-02 ADAMS STREET ROADWAY PLAN.

SCALE: 1" = 20'

FILE PATH = $FILE$

TranSystems

$FILES$	DESIGNED - $PLN-10-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-10-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-10-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $SPLN-10F $PLN-14SHEETS | STA. 8286+00 | TO STA. 8387+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-11
		CONTRACT NO. 60X94		
		ILLINOIS FED. AID PROJECT		

N

SEE SHEET NO. 8PLN-11
MATCH LINE STA 8387+00 (PR ℄ ADAMS EXIT RAMP)

MONROE STREET

2054-B-01

2054-B-01ALT

2054-B-01A

EX ROW

EX ROW

EX ROW

EX ROW

END CONSTRUCTION
ADAMS EXIT RAMP
STA 8383+45.00

PR ADAMS EXIT RAMP

36-RWB-02

36-RWB-01

36-STVS-01

EX JACKSON EXIT RAMP

SB I-90/94

2054-B-02

EX/PR SB I-90/94
PAVEMENT RECONSTRUCTION
BY CONTRACT 62A77

EX ℄ SB I-90/94

SB90-SGB-04

2054-B-05

0 20 40
SCALE: 1" = 20'

FILE PATH = $FILE$

$FILE$	DESIGNED - $PLN-11-DE	REVISED -	
USER NAME = $USER$	DRAWN - $PLN-11-DR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - $PLN-11-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

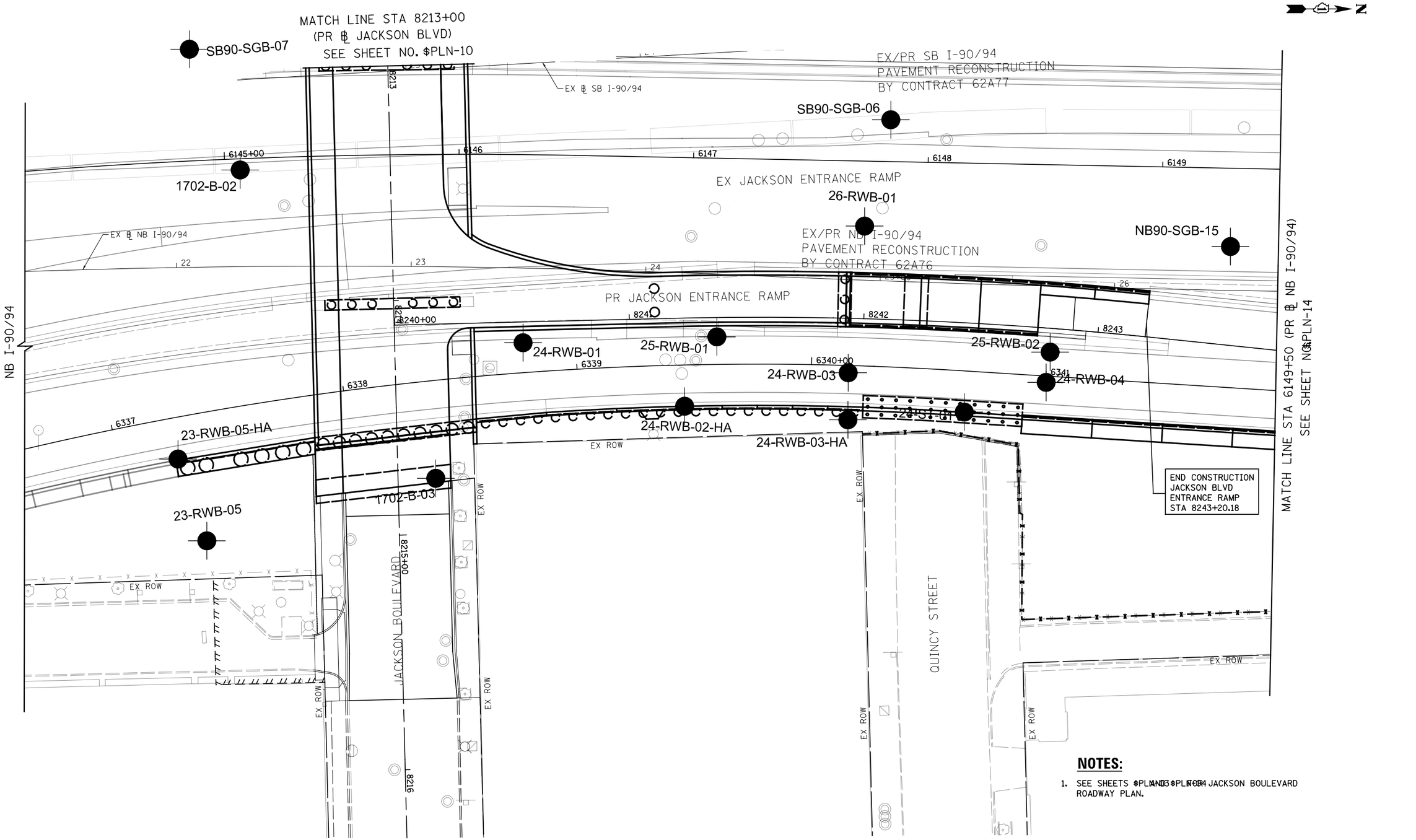
TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' | SHEET $$PLN-1QF $PLN-1TSHEETS | STA. 8382+25 | TO STA. 8387+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-12
		CONTRACT NO. 60X94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE SHEETS $PLN-03 AND $PLN-04 FOR JACKSON BOULEVARD ROADWAY PLAN.

0 20 40

SCALE: 1″ = 20′

FILE PATH = $FILE$

TranSystems

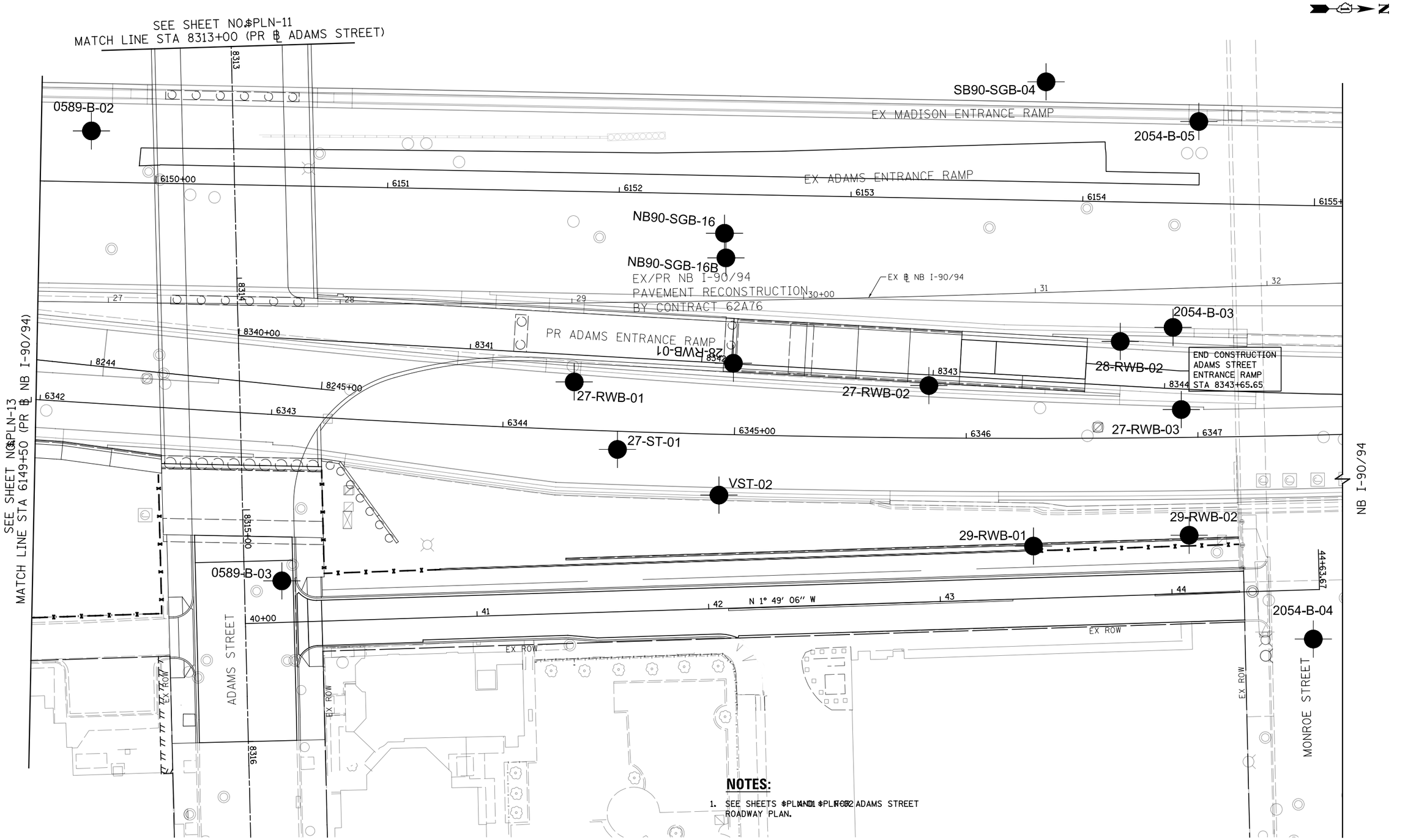
$FILES$	DESIGNED - $PLN-12-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-12-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-12-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1″=20′ | SHEET $$PLN-13 OF $PLN-14 SHEETS | STA. 6145+00 | TO STA. 6149+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-13
		CONTRACT NO. 60X94		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE SHEETS $PLN-11 AND $PLN-12 FOR ADAMS STREET ROADWAY PLAN.

FILE PATH = $FILE$

TranSystems	$FILES$	DESIGNED - $PLN-13-DE	REVISED -
	USER NAME = $USER$	DRAWN - $PLN-13-DR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - $PLN-13-CH	REVISED -
	PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

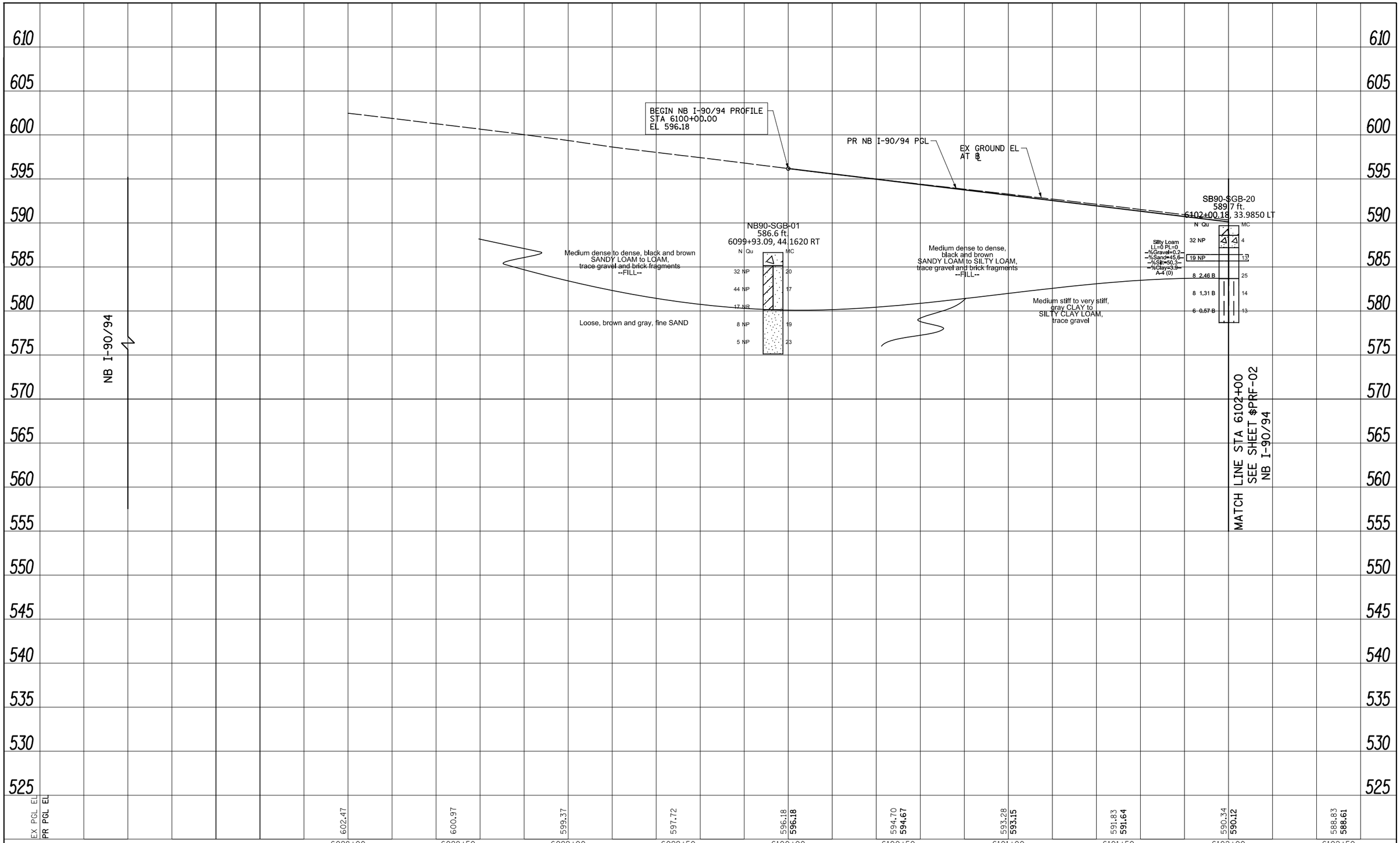
SCALE: 1"=20' | SHEET $$PLN-10 OF $PLN-14 SHEETS | STA. 6149+50 TO STA. 6155+12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-14

CONTRACT NO. 60X94

ILLINOIS FED. AID PROJECT

- I-90/94 NB and Connecting Ramps



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
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

FILE PATH = $FILEL$

TranSystems

$FILES$	DESIGNED - $PRF-01-DE	REVISED -	
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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

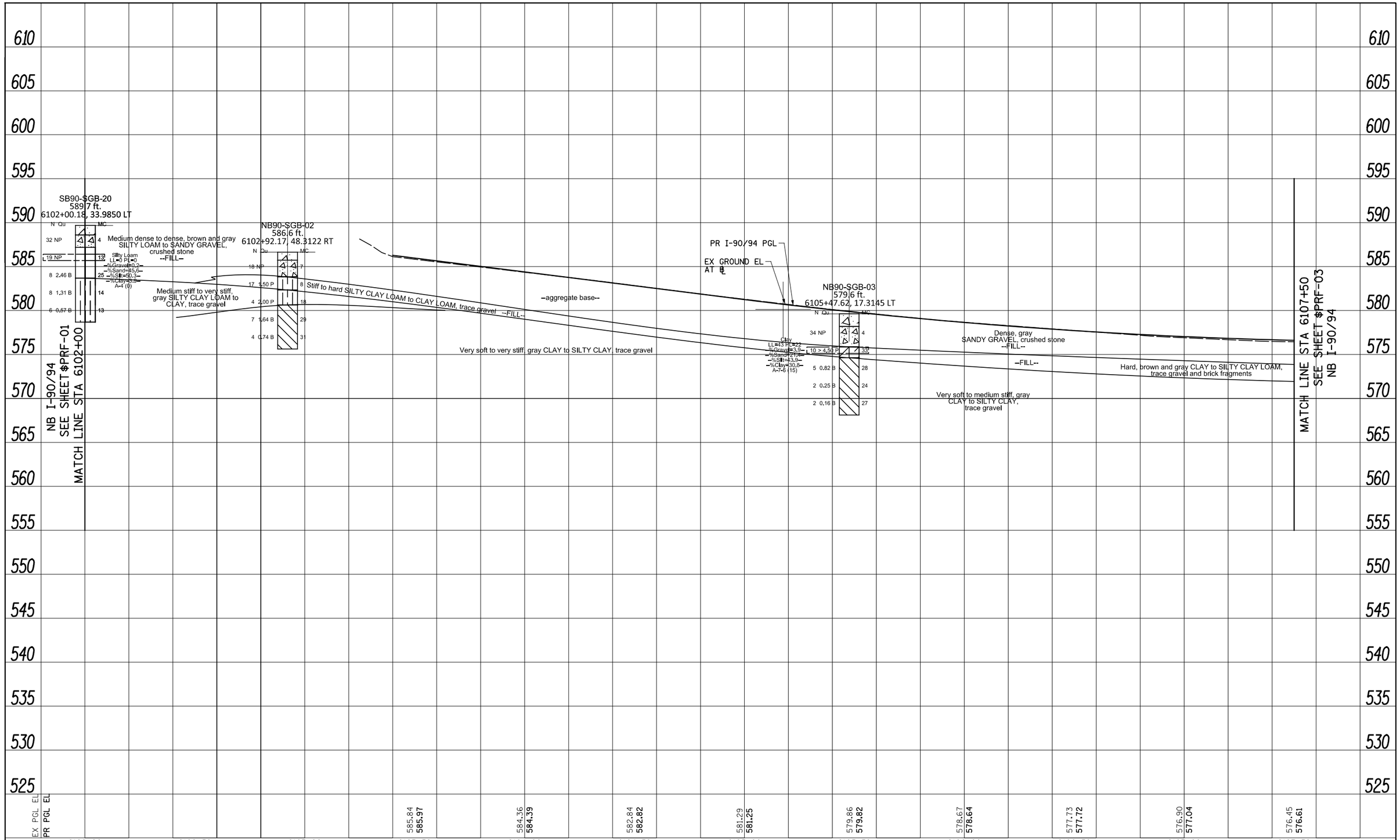
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-01 OF $PRF-01 SHEETS | STA. 6098+00 TO STA. 6102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-01

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
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BAR. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
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FILE PATH = $FILE$

TranSystems

$FILES$	DESIGNED - $PRF-01-DE	REVISED -
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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

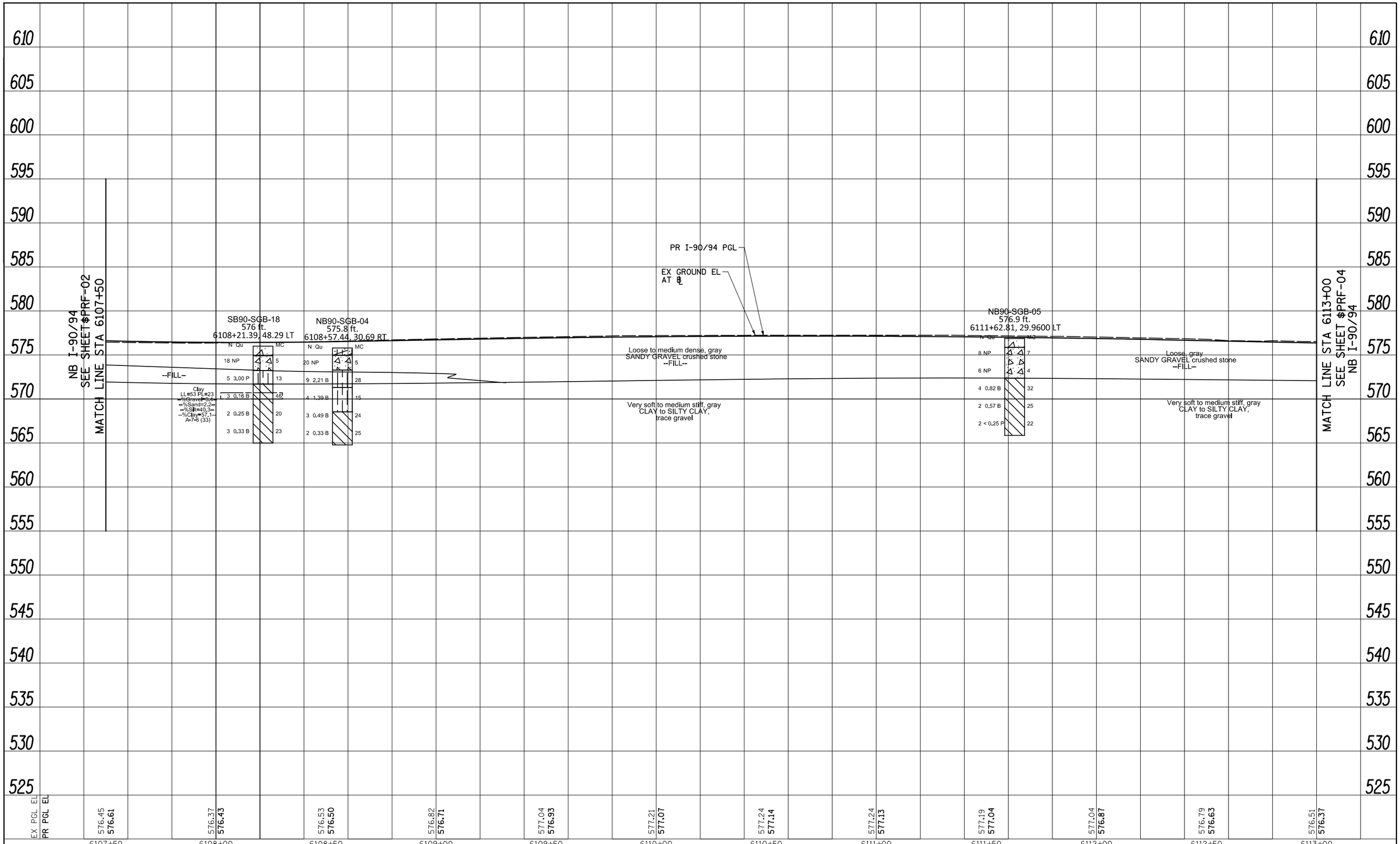
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-02F $PRF-SHEETS | STA. 6102+00 | TO STA. 6107+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-02

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



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SURVEYED
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
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PROFILE
NOTE BOOK NO.
SURVEYED
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GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

FILE PATH = $FILEL$

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

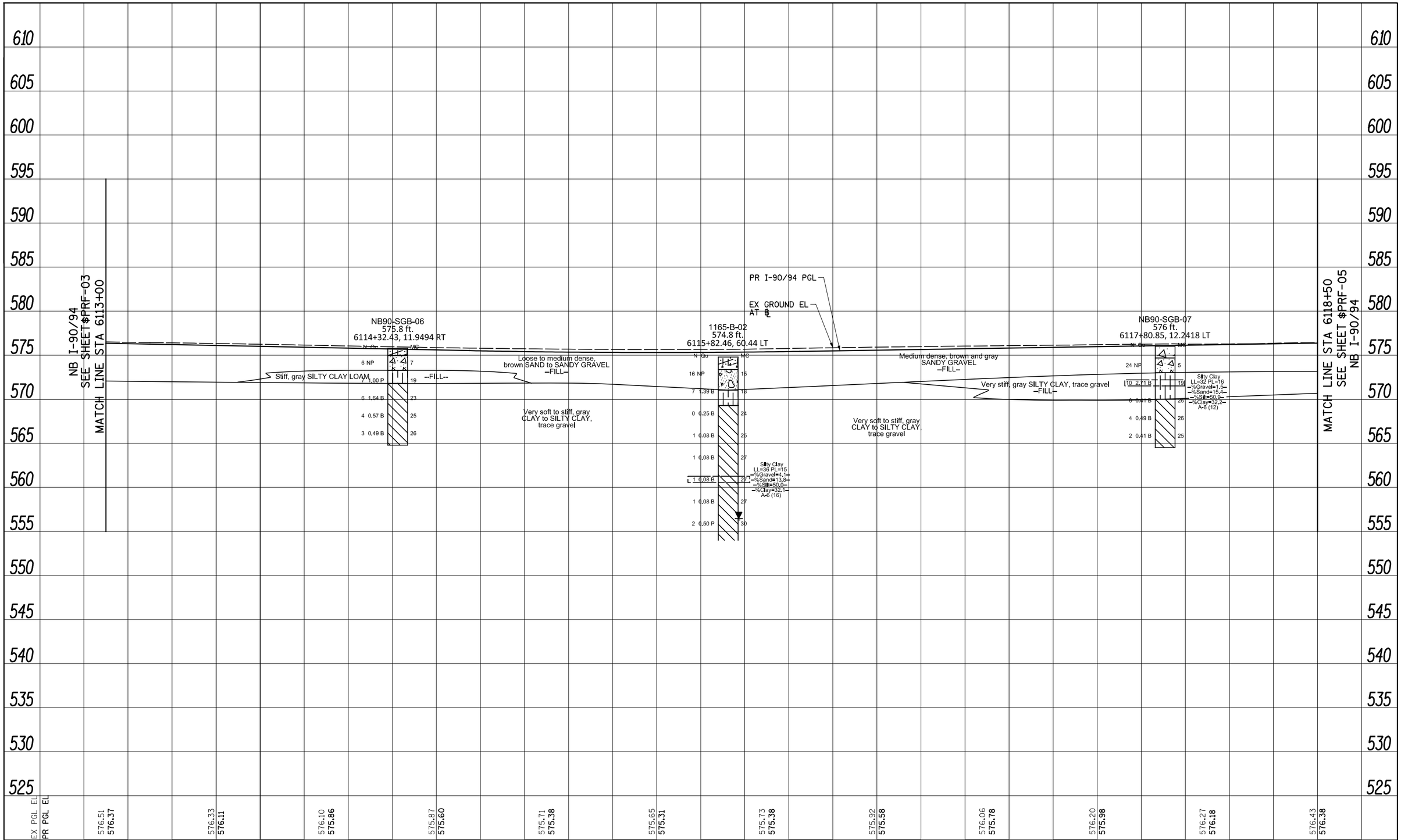
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-03 OF $PRF-04 SHEETS | STA. 6107+50 TO STA. 6113+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-03

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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CADD FILE NAME
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PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
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DATE

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

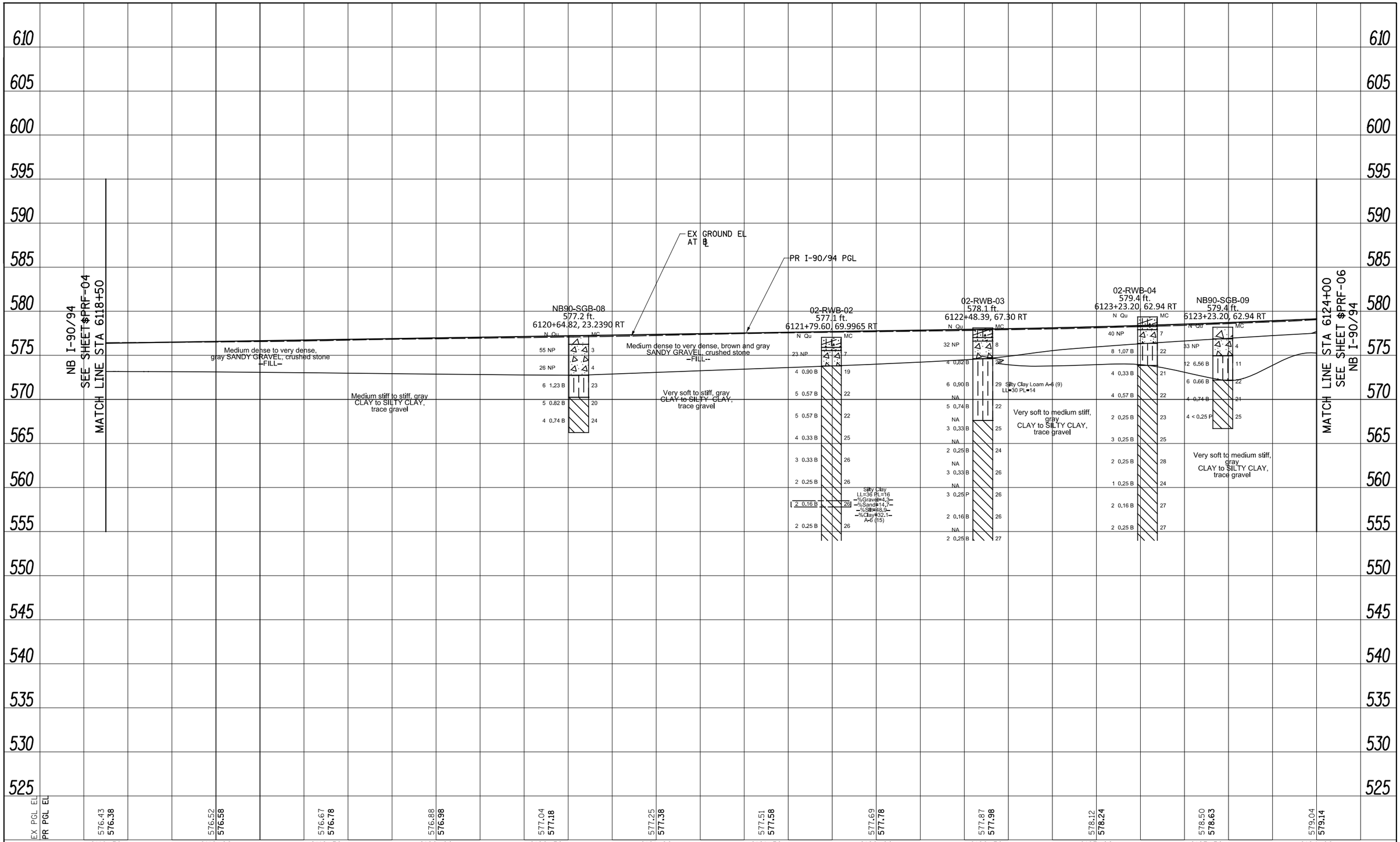
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-04 OF $PRF-04 SHEETS | STA. 6113+00 TO STA. 6118+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-04

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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RT. OF WAY CHECKED
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PROFILE
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FILE PATH = $FILEL$

TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-05 OF $PRF-06 SHEETS | STA. 6118+50 TO STA. 6124+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-05

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

PLAN
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CROSS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
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NB I-90/94
SEE SHEET $PRF-05
MATCH LINE STA 6124+00

02-RWB-06
581.6 ft.
6124+73.87, 53.59 RT
N Qu MC
47 NP 5
9 1.80 B 18 Silty Clay Loam LL=26 PL=13 %Gravel=4.2 %Sand=22.5 %Silt=49.7 %Clay=23.6 A-4 (7)
7 1.23 B 17
5 0.90 B 23
5 1.07 B 25
4 0.41 B 24
3 0.33 B 25
3 0.41 B 26
3 0.41 B 26
5 < 0.25 P 27 Silty Clay LL=36 PL=16 %Gravel=2.8 %Sand=16.1 %Silt=51.5 %Clay=29.7 A-6 (15)
3 0.25 B 28

1705-B-01
582.9 ft.
6126+21.05, 62.32 RT
N Qu MC
32 NP 4
5 1.64 B 33
5 0.57 B 21
VS NA
5 0.74 B 20
VS NA
4 < 0.25 P 20
VS NA
2 0.49 B 25
VS NA
4 0.25 B 28
VS NA
5 0.33 B 25
VS NA
2 < 0.25 P 28
VS NA
3 < 0.25 P 23
VS NA
2 0.41 B 27
VS NA

NB90-SGB-10
581.5 ft.
6126+61.54, 23.2181 RT
N Qu MC
9 NP 7
6 1.50 P 24
6 0.66 B 31 Clay LL=43 PL=20 %Gravel=1.4 %Sand=8.1 %Silt=45.6 %Clay=44.8 A-7-6 (22)
3 0.82 B 24
3 0.74 B 23

PR I-90/94 PGL
EX GROUND EL AT ℄

1705-B-02
583.1 ft.
6127+88.92, 56.43 RT
N Qu MC
17 NP 4
9 2.62 B 27
8 0.98 B 25
4 0.66 B 21
3 0.49 B 21
1 0.41 B 26
1 0.33 B 20
0 0.41 B 27
3 < 0.25 P 22
0 0.41 B 26
0 0.33 B 27
2 0.41 B 25

1705-B-03
582 ft.
6129+37.74, 59.4
N Qu MC
9 NP B 15
5 1.39 B 27
6 0.98 B 23
7 0.82 B 15
5 1.07 B 17
2 0.57 B 25
2 0.57 B 26
3 < 0.25 P 26
1 0.49 B 25
0 0.49 B 27
0 0.25 B 25

Very stiff, brown and gray CLAY LOAM, trace gravel
--FILL--
Medium stiff to very stiff, gray and brown SILTY CLAY LOAM, trace gravel
Stiff, gray and brown SILTY CLAY to CLAY, trace gravel
Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel
Loose to medium dense, gray GRAVELLY SAND --FILL--
Stiff to very stiff, gray SILTY CLAY to CLAY, trace gravel
Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel
Soft, gray SILTY LOAM, trace gravel
Medium dense, gray CRUSHED STONE --FILL--
Medium stiff to stiff, gray SILTY CLAY to CLAY, trace gravel
Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

MATCH LINE STA 6129+50
SEE SHEET $PRF-07
NB I-90/94

	EX PGL EL	PR PGL EL
6124+00	579.04	579.14
6124+50	579.78	579.72
6125+00	580.51	580.29
6125+50	581.17	580.87
6126+00	581.68	581.44
6126+50	582.07	582.01
6127+00	582.39	582.47
6127+50	582.68	582.77
6128+00	582.79	582.90
6128+50	582.78	582.87
6129+00	582.72	582.67
6129+50	582.53	582.31

FILE PATH = $FILE$

TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-05 OF $PRF-SHEETS | STA. 6124+00 | TO STA. 6129+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-06

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

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STRUCTURE NOTATNS CHKD
BY
DATE

610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535 530 525

NB I-90/94
SEE SHEET $PRF-06
MATCH LINE STA 6129+50

PR I-90/94 PGL
EX GROUND EL AT ℄

NB90-SGB-11
582.2 ft.
6130+01.25, 1.6385 RT
N Qu MC
26 NP 4
14 NR
6 0.25 P 21
6 0.98 B 25
5 0.66 B 25

Medium dense, gray SANDY GRAVEL –FILL–

Medium dense, gray SANDY GRAVEL, crushed stone –FILL–

Soft to medium stiff, gray SITLY CLAY to CLAY, trace gravel

1705-B-04
580.6 ft.
6130+96.21, 60.87 RT
N Qu MC
9 NP 4
5 0.49 B 22
3 0.41 B 21
3 0.33 B 26
0 0.33 B 28
2 0.33 B 16
2 0.33 B 24
3 0.25 B 23
2 0.16 B 27
4 0.49 B 22
4 0.66 B 25

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Silty Clay
LL=34 PL=15
%Gravel=2.0
%Sand=15.5
%Silt=49.7
%Clay=32.8
A-6 (14)

1088-B-02
582.1 ft.
6131+77.19, 14.07 RT
N Qu MC
15 NP 11
1 0.57 B 24
1 0.41 B 28
4 0.16 B 28
3 0.25 B 25
4 0.33 B 26
4 0.41 B 26
2 0.25 B 27
2 0.25 B 26
1 0.33 B 27
1 0.16 B 26

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Medium dense, brown SANDY GRAVEL, crushed stone –FILL–

1712-B-02
578.3 ft.
6133+36.72, 32.21 LT
N Qu MC
15 NP 9
4 0.25 B 29
0 0.16 B 21
4 0.33 B 17
3 0.57 B 22
1 0.16 B 25
1 0.08 B 26
0 0.16 B 26
0 0.16 B 22
1 0.16 B 27

Silty Clay
LL=35 PL=18
%Gravel=2.5
%Sand=14.0
%Silt=50.5
%Clay=32.2
A-6 (13)

Loose to medium dense, gray SANDY GRAVEL , crushed stone --FILL--

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

NB90-SGB-12
576.9 ft.
6134+48.65, 30.3217 LT
N Qu MC
16 NP 6
4 NP 8
2 0.25 B 24
4 0.33 B 22
3 0.41 B 26

MATCH LINE STA 6135+00
SEE SHEET $PRF-08
NB I-90/94

	6129+50	6130+00	6130+50	6131+00	6131+50	6132+00	6132+50	6133+00	6133+50	6134+00	6134+50	6135+00
EX PGL EL	582.53	582.18	581.74	581.17	580.55	579.98	579.35	578.73	578.19	577.72	577.25	576.80
PR PGL EL	582.31	581.82	581.31	580.80	580.29	579.78	579.27	578.76	578.26	577.75	577.24	576.73

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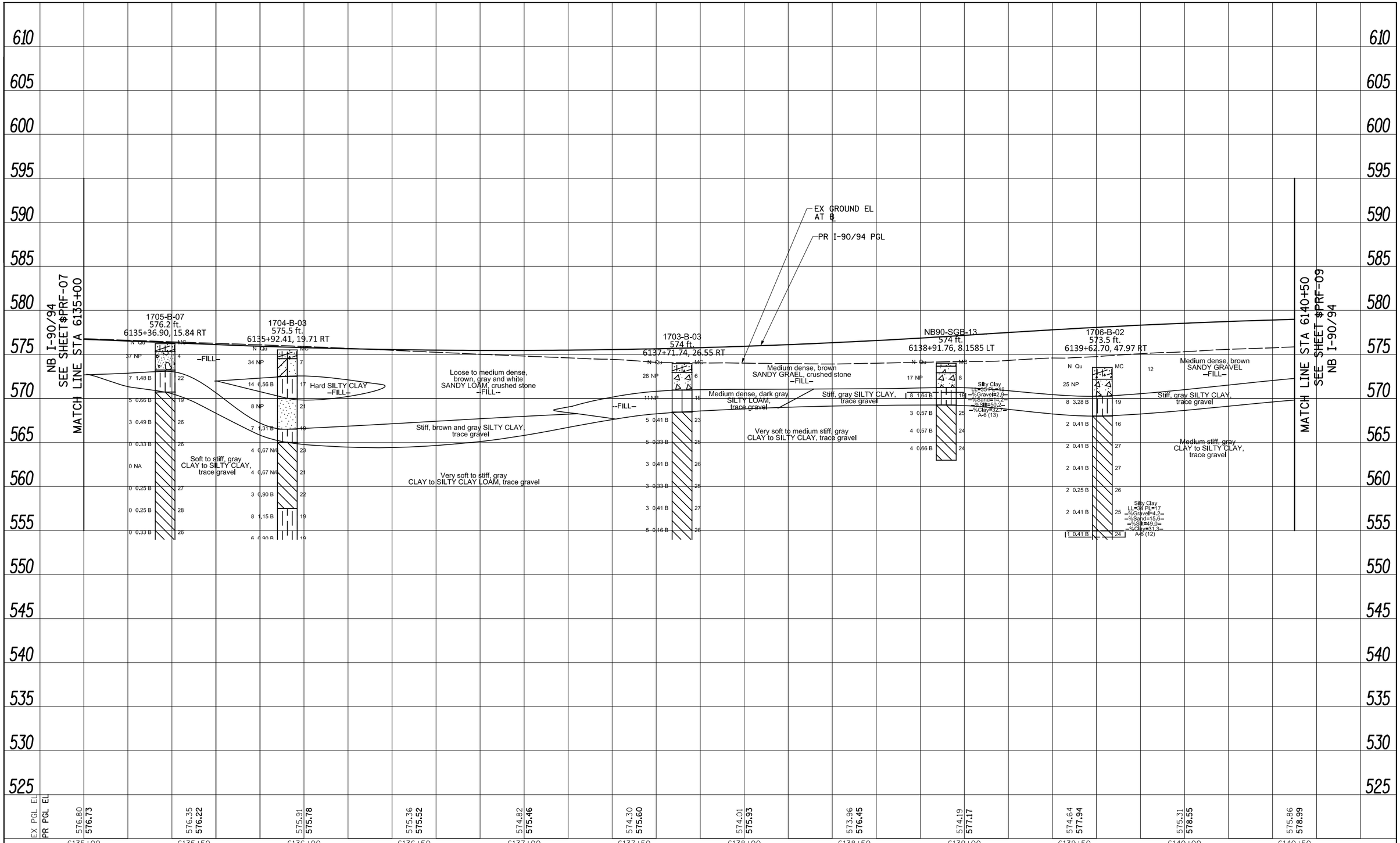
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-01 OF $PRF-SHEETS | STA. 6129+50 | TO STA. 6135+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-01
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		



PLAN
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PROFILE
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GRADES CHECKED
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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-08 OF $PRF-SHEETS | STA. 6135+00 TO STA. 6140+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-08

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

PLAN
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NOTE BOOK R.T. OF WAY CHECKED
NO.____ CADD FILE NAME
BY
DATE

PROFILE
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PROJECT CHECKED
NOTE BOOK BKM. NOTED
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BY
DATE

NB I-90/94
SEE SHEET #PRF-08
MATCH LINE STA 6140+50

MATCH LINE STA 6146+00
SEE SHEET #PRF-10
NB I-90/94

2055-B-04
575.7 ft.
6140+72.22, 70.50 LT
N Qu MC
18 NP 4
5 1.07 B 20
4 0.57 B 25
3 0.57 B 24
3 0.57 B 17
4 0.66 B 25
Silty Clay
LL=35 PL=15
%Gravel=4.3
%Sand=15.2
%Silt=48.0
%Clay=32.4
A-6 (15)
3 0.57 B 26
4 0.57 B 26

Medium dense, brown
SANDY GRAVEL, crushed stone
-FILL-

Soft to stiff, gray
CLAY to SILTY CLAY,
trace gravel

2055-B-05
577 ft.
6141+63.62, 46.55 RT
N Qu MC
26 NP 6
6 0.33 B 21
VS NA
4 0.25 B 24
VS NA
4 0.25 B 22
VS NA
3 0.25 B 24
VS NA
3 0.33 B 25 Clay A-6 (15)
LL=35 PL=15
VS NA
3 0.25 B 23
VS NA
3 0.16 B 25
VS NA
4 0.25 B 25

SB90-SGB-08
577.4 ft.
6142+03.44, 60.74 LT
N Qu MC
23 NP 6
6 1.39 B 21
4 0.33 B 24
4 0.49 B 25
4 0.49 B 24

EX GROUND EL
AT ℄
PR I-90/94 PGL

Medium dense, gray
SANDY GRAVEL, crushed stone
-FILL-

Soft to stiff, gray
SILTY CLAY to CLAY,
trace gravel

NB90-SGB-14
577.7 ft.
6143+49.96, 19.7769 RT
N Qu MC
10 NP 18
2 0.33 B 24
3 0.57 B 24
3 0.74 B 24
5 0.90 B 23

Medium dense to dense, gray
SANDY GRAVEL, crushed stone
-FILL-

Soft to medium stiff,
brown and gray
CLAY to SILTY CLAY,
trace gravel

1702-B-02
577.4 ft.
6145+06.52, 5.1113 RT
N Qu MC
14 NP 14
10 0.57 B 17
2 0.25 B 25
3 0.33 B 25
2 0.41 B 23
3 0.16 B 18
0 0.33 B 26
0 0.25 B 27
0 0.33 B 26

Medium dense to dense, gray
SANDY GRAVEL, crushed stone
-FILL-

Soft to medium stiff, gray
CLAY to SILTY CLAY,
trace gravel

	6140+50	6141+00	6141+50	6142+00	6142+50	6143+00	6143+50	6144+00	6144+50	6145+00	6145+50	6146+00
EX PGL EL	575.86	576.40	576.93	577.59	580.78	577.60	577.70	577.72	577.60	577.39	577.05	576.66
PR PGL EL	578.99	579.27	579.39	579.35	579.15	578.81	578.46	578.11	577.76	577.41	577.06	576.71

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TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-09F $PRF-$HEETS | STA. 6140+50 | TO STA. 6146+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-09
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		

NB I-90/94
SEE $SHEET$PRF-09
MATCH LINE STA 6146+00

MATCH LINE STA 6151+50
SEE $SHEET $PRF-11
NB I-90/94

EX GROUND EL AT ℄ PR I-90/94 PGL

24-RWB-01
575.4 ft.
6146+28.85, 80.15 RT

25-RWB-01
576 ft.
6147+11.40, 76.13 RT

SB90-SGB-06
576.2 ft.
6147+83.76, 17.3240 LT

NB90-SGB-15
577 ft.
6149+29.58, 33.8831 RT

0589-B-02
577.9 ft.
6149+79.82, 21.5012 LT

Loose to medium dense, brown SANDY GRAVEL –FILL–

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Medium dense, brown and gray SANDY GRAVEL –FILL–

Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel

Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Medium dense to dense, gray SANDY GRAVEL –FILL–

Very stiff, gray SILTY CLAY LOAM, trace gravel

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Silty Clay
LL=32 PL=17
–%Gravel=2.5–
–%Sand=16.6–
–%Silt=51.2–
–%Clay=29.8–
A-6 (11)

	24-RWB-01			25-RWB-01			SB90-SGB-06			NB90-SGB-15			0589-B-02		
	N	Qu	MC	N	Qu	MC	N	Qu	MC	N	Qu	MC	N	Qu	MC
	4	NR		14	NP	6	16	NP	3	12	NP	7	45	NP	4
	4	0.67	N/A	4	0.57	B 18	7	1.39	B 18	6	1.15	B 19	10	2.79	S 14
	4	0.25	B 22	3	0.57	B 23	3	0.66	B 23	3	0.33	B 25	3	0.41	B 23
	4	0.49	B 23	4	0.57	B 24	3	0.74	B 21	3	0.41	B 25	2	0.41	B 24
	4	0.33	B 23	4	0.74	B 24	4	0.82	B 22	3	0.66	B 25	5	0.25	P 24
	4	0.49	B 23	3	0.49	B 24							3	0.66	B 23
	3	0.41	B 26	4	0.49	B 24							0	0.16	B 27
	3	0.25	B 26	4	0.25	B 25							0	0.33	B 26
	3	0.16	B 26	1	0.25	B 25							0	0.41	B 26

	610	605	600	595	590	585	580	575	570	565	560	555	550	545	540	535	530	525

	6146+00	6146+50	6147+00	6147+50	6148+00	6148+50	6149+00	6149+50	6150+00	6150+50	6151+00	6151+50
EX PGL EL	576.66	576.22	579.35	579.45	579.29	579.59	578.40	579.23	580.65	581.08	581.81	582.34
PR PGL EL	576.71	576.38	576.20	576.18	576.33	576.65	577.12	577.60	578.09	578.57	579.06	579.54

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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I–90/94

SCALE: 1″=20′ | SHEET $$PRF-10F $PRF-SHEETS | STA. 6146+00 | TO STA. 6151+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-10

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT

PLAN: SURVEYED | PLOTTED | PROJECT CHECKED | RT. OF WAY CHECKED | NOTE BOOK | CADD FILE NAME | NO. _____ | BY | DATE

PROFILE: SURVEYED | PLOTTED | PROJECT CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. _____ | BY | DATE

NB I-90/94
SEE SHEET $PRF-10
MATCH LINE STA 6151+50

PR I-90/94 PGL
EX GROUND EL AT ℄

27-RWB-01
579.2 ft.
6151+82.15, 82.22 RT

Hard, brown SILTY CLAY LOAM, trace gravel —FILL—

N	Qu		MC
7	4.10 B		15
2	0.16 B		27
2	0.16 B		25
2	< 0.25 P		23
2	0.41 B		25
2	0.49 B		25
3	0.57 B		25
6	0.57 B		26
3	0.33 B		27
3	< 0.25 P		30

NB90-SGB-16B
579.5 ft.
6152+46.53, 27.45 RT

N	Qu		MC
21	NP		18
11	1.31 B		20
3	0.57 B		24
3	0.41 B		25
3	0.49 B		25

Clay A-6 (12) LL=35 PI=17

Loose to very dense, gray SANDY GRAVEL, trace brick fragments —FILL—

Very soft, gray CLAY to SILTY CLAY, trace gravel

27-RWB-02
579.6 ft.
6153+35.16, 80.82 RT

N	Qu		MC
17	NP		5
4	0.41 B		23
2	0.41 B		26
3	0.41 B		25
3	0.25 B		25
3	0.41 B		25
2	0.41 B		17
3	0.33 B		26
3	0.33 B		26
7	0.41 B		25

Very soft to soft, brown and gray SILTY CLAY to CLAY, trace gravel

2054-B-03
579.4 ft.
6154+40.01, 53.68 RT

N	Qu		MC
51	NP		3
8	3.49 B		15
4	0.41 B		19
5	0.90 B		16
2	0.25 B		22
0	0.33 B		25
0	0.16 B		26
0	0.33 B		26
2	0.16 B		26
1	0.33 B		25

Medium dense to very dene, white and brown SANDY GRAVEL, crushed stone —FILL—

Very soft to medium stiff, brown and gray CLAY to SILTY CLAY, trace gravel

NB90-SGB-17
578.1 ft.
6156+00.85, 52.31 RT

N	Qu		MC
28	NP		5
7	0.50 P		18
6	0.82 B		20
4	0.49 B		24
3	0.41 B		26

34-RWB-01
577.302 ft.
6156+73.72 21.5607 LT

N	Qu		MC
40	NP		6
5	1.23 B		19
4	0.41 B		18
NA			
3	0.49 B		25
NA			
2	0.41 B		24

Very soft to medium stiff, brown and gray CLAY to SILTY CLAY, trace gravel

MATCH LINE STA 6157+00
SEE SHEET $PRF-12
NB I-90/94

	6151+50	6152+00	6152+50	6153+00	6153+50	6154+00	6154+50	6155+00	6155+50	6156+00	6156+50	6157+00
EX PGL EL	582.34	593.91	589.85	586.32	582.66	579.91	578.87	578.53	578.22	578.00	577.65	577.46
PR PGL EL	579.54	579.98	580.26	580.38	580.35	580.15	579.80	579.40	579.01	578.61	578.21	577.81

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Tran Systems

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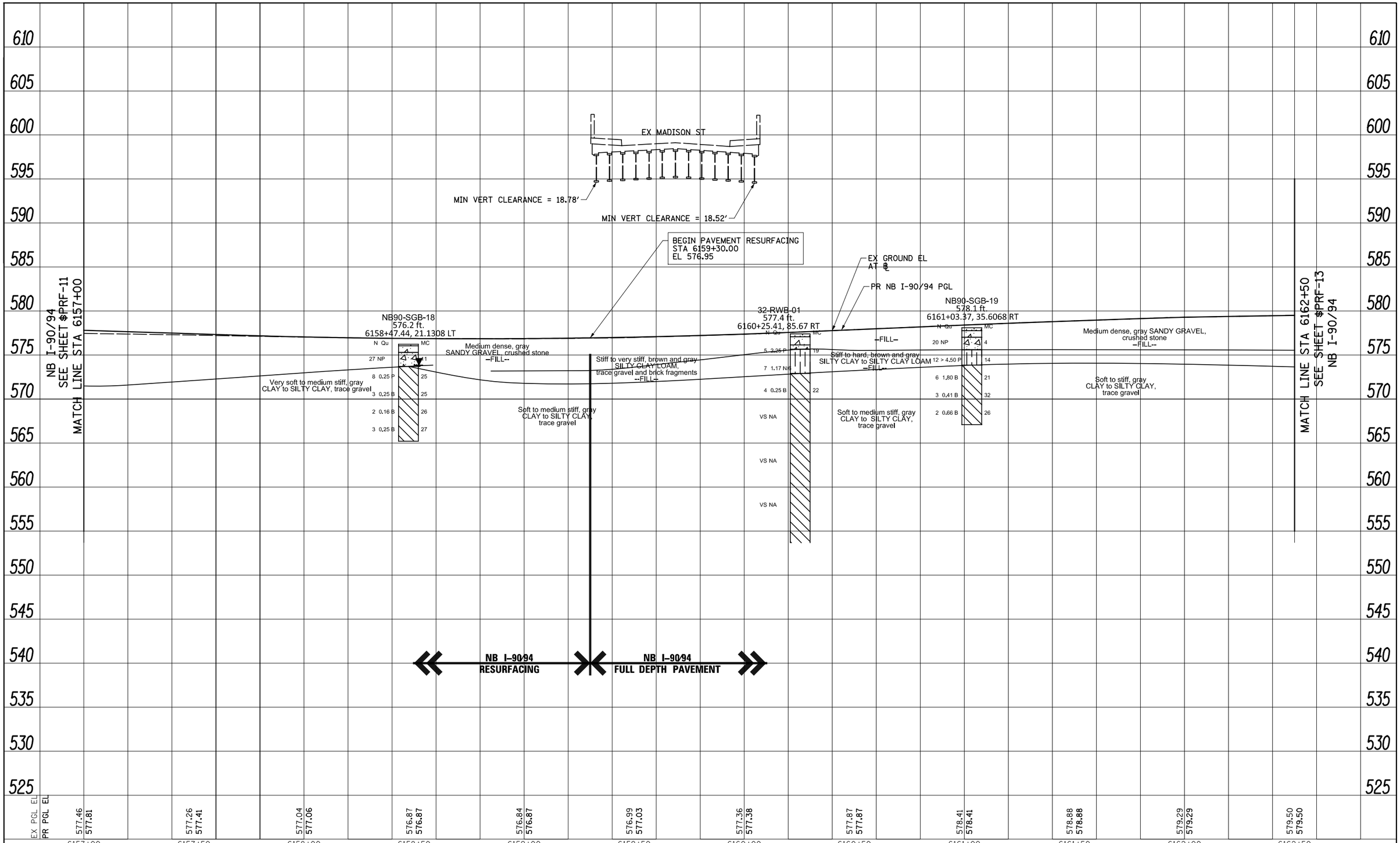
PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-10F $PRF-14SHEETS | STA. 6151+50 | TO STA. 6157+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-11
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		



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
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

FILE PATH = $FILEL$

TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

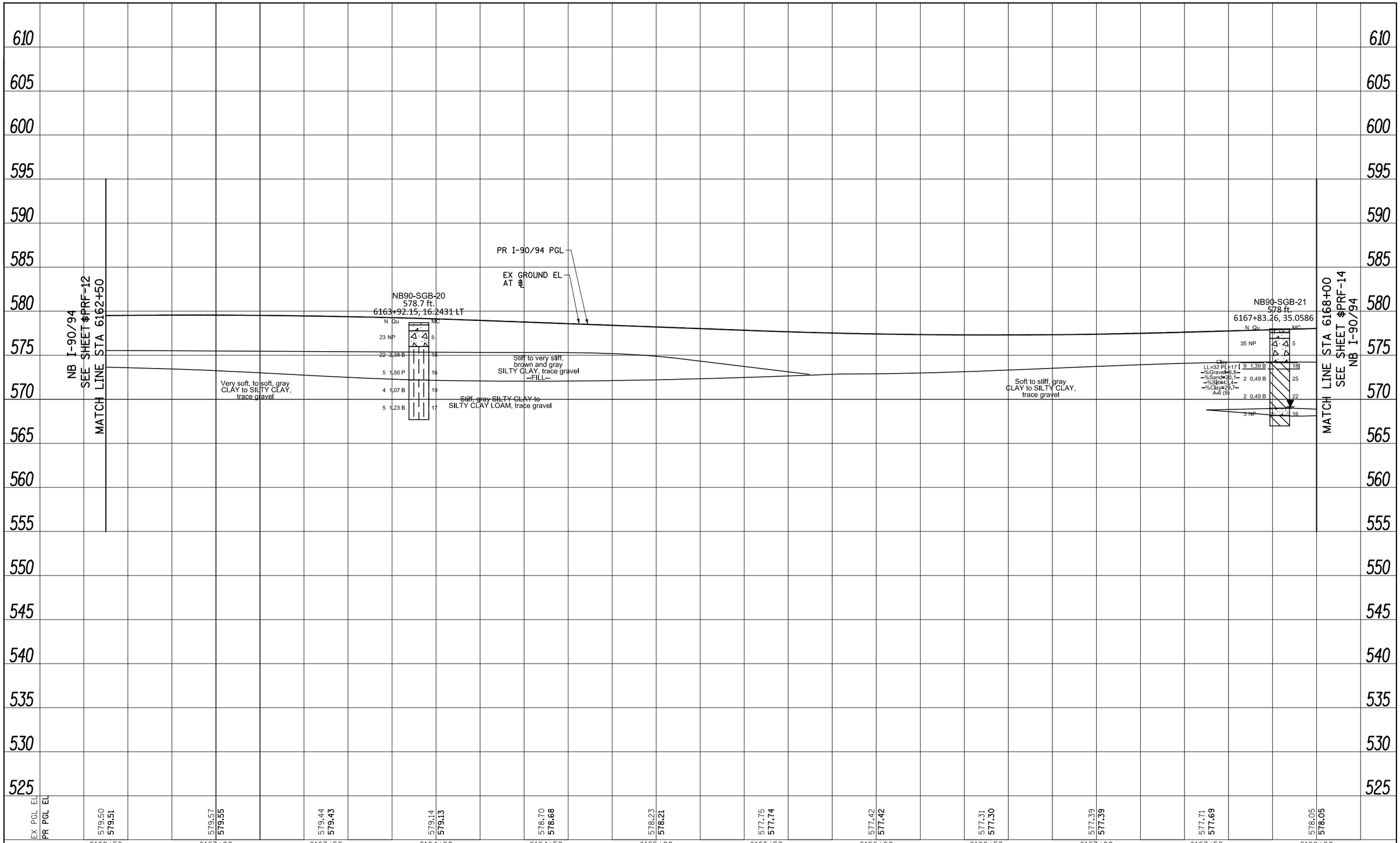
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-12 OF $PRF-13 SHEETS | STA. 6157+00 TO STA. 6162+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-12

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

FILE PATH = $FILEL$

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-13 OF $PRF-14 SHEETS | STA. 6162+50 TO STA. 6168+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-13

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BAR. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

610
605
600
595
590
585
580
575
570
565
560
555
550
545
540
535
530
525

NB I-90/94
SEE $SHEET $PRF-13
MATCH LINE STA 6168+00

MATCH LINE STA 6173+50
SEE $SHEET $PRF-15
NB I-90/94

RT

Medium dene to dense, brown
SANDY GRAVEL, crushed stone
--FILL--

Soft to stiff, gray
CLAY to SILTY CLAY,
trace gravel

NB90-SGB-22
578.3 ft.
6170+37.05, 19.5103 LT

	N	Qu	
22	NP		7
9	2.46	B	18
3	0.41	B	24
5	0.82	B	23
6	0.82	B	22

MC

Very stiff, brown and gray SILTY CLAY
--FILL--

PR I-90/94 PGL
EX GROUND EL
AT ℄

Medium dene to dense, brown and gray
SANDY GRAVEL, crushed stone
--FILL--

Soft to medium stiff, gray
CLAY to SILTY CLAY,
trace garvel

NB90-SGB-23
577.5 ft.
6172+79.72, 31.3803 RT

	N	Qu	
22	NP		3
5	0.50	P	22
2	0.41	B	24
4	0.57	B	21
4	0.66	B	24

MC

Silty Clay Loam
LL=32 PL=17
-%Gravel=5.7-
-%Sand=22.0-
-%Silt=49.5-
-%Clay=22.5-
A-6 (9)

	EX PGL EL	PR PGL EL
6168+00	578.05	578.05
6168+50	578.41	578.38
6169+00	578.61	578.61
6169+50	578.73	578.73
6170+00	578.75	578.75
6170+50	578.68	578.66
6171+00	578.43	578.47
6171+50	578.13	578.16
6172+00	577.77	577.80
6172+50	577.42	577.43
6173+00	577.07	577.06
6173+50	576.79	576.78

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TranSystems

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USER NAME = $USER$	DRAWN - $PRF-01-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

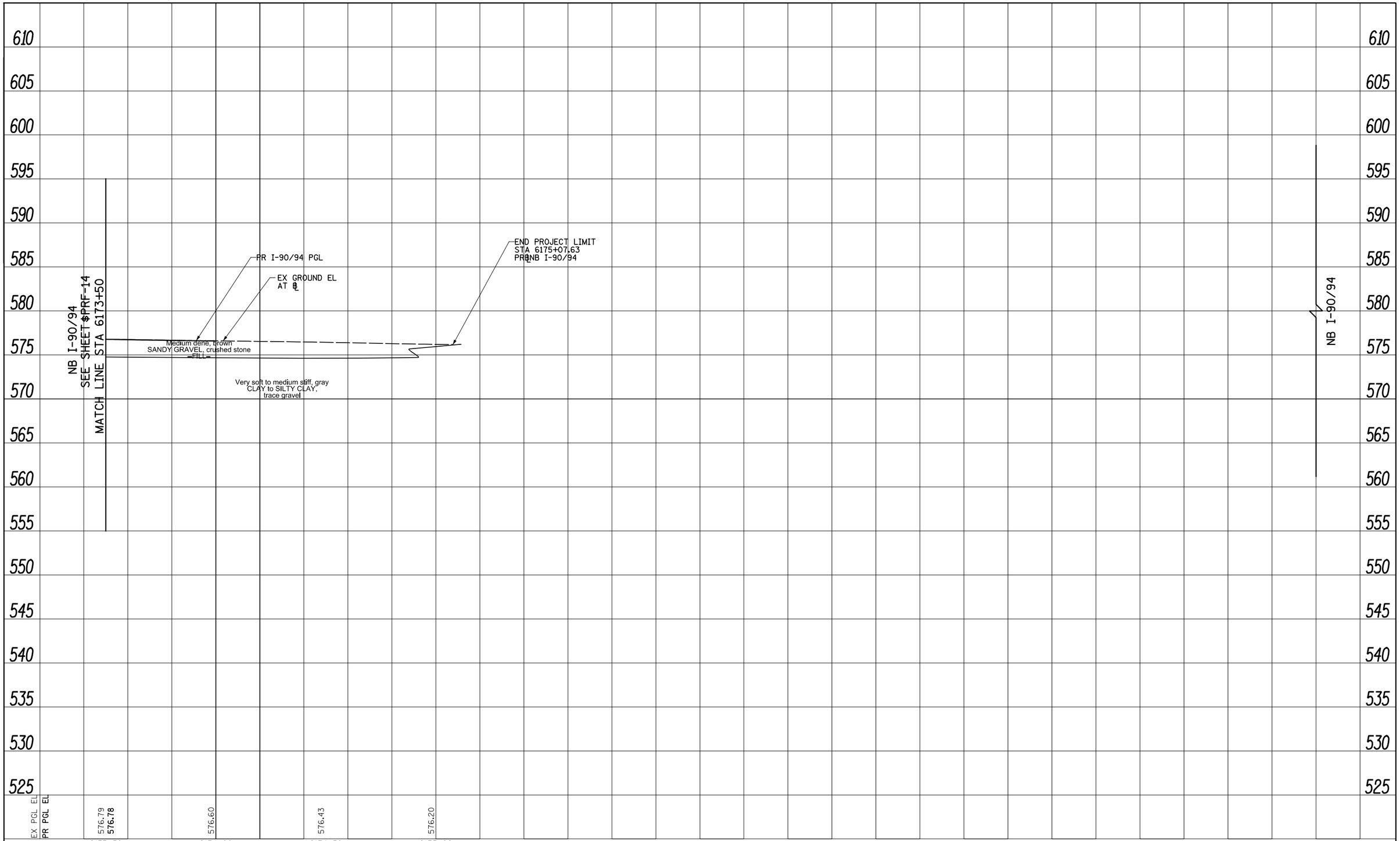
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-10F $PRF-14SHEETS | STA. 6168+00 | TO STA. 6173+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-14

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



PLAN
SURVEYED
PLOTTED
CROSS CHECKED
RT. OF WAY CHECKED
NOTE BOOK
CADD FILE NAME
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BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

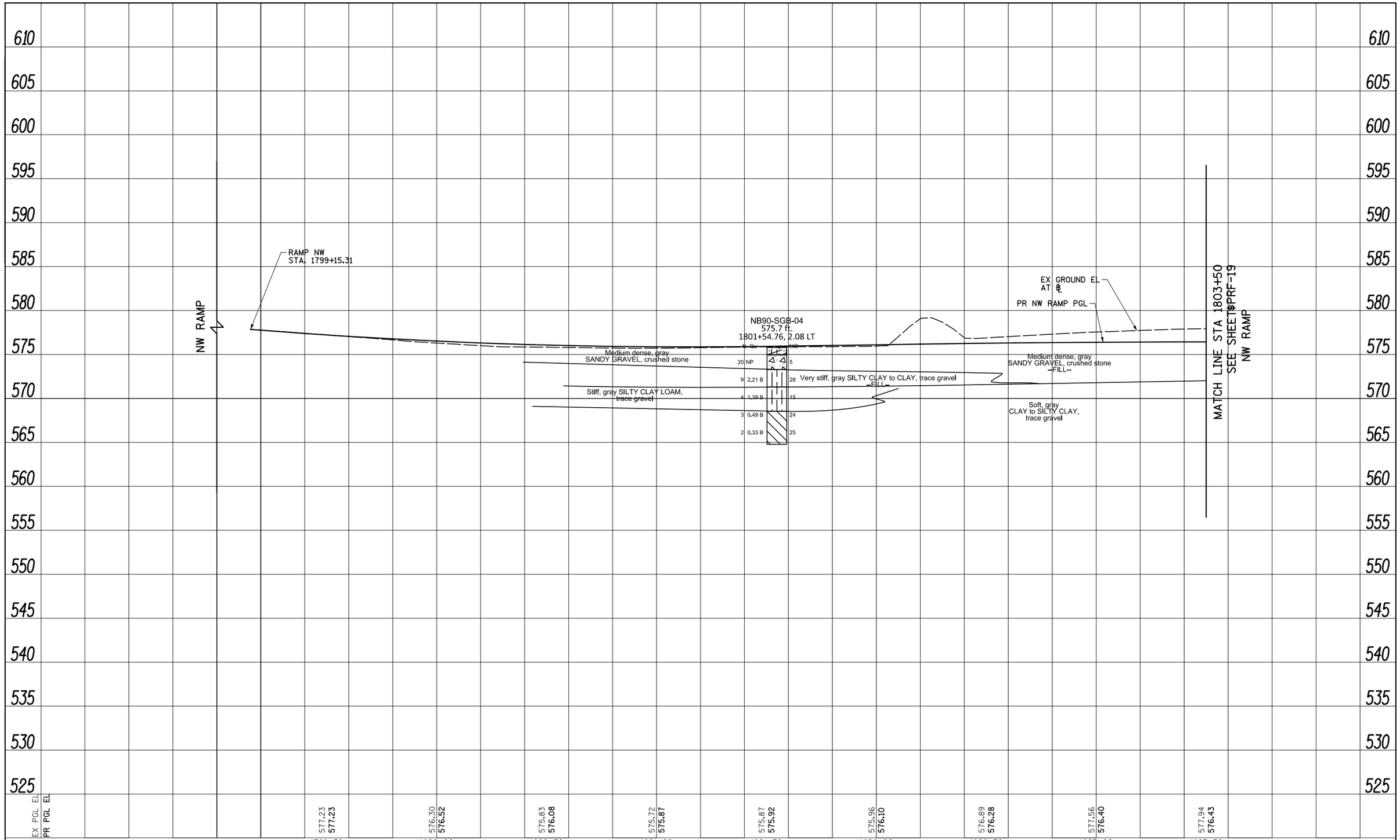
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' | SHEET $$PRF-15 OF $PRF-14 SHEETS | STA. 6173+50 | TO STA. 6175+07.63

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-15

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



PLAN
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PLOTTED
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PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

FILE PATH = $FILEL$

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

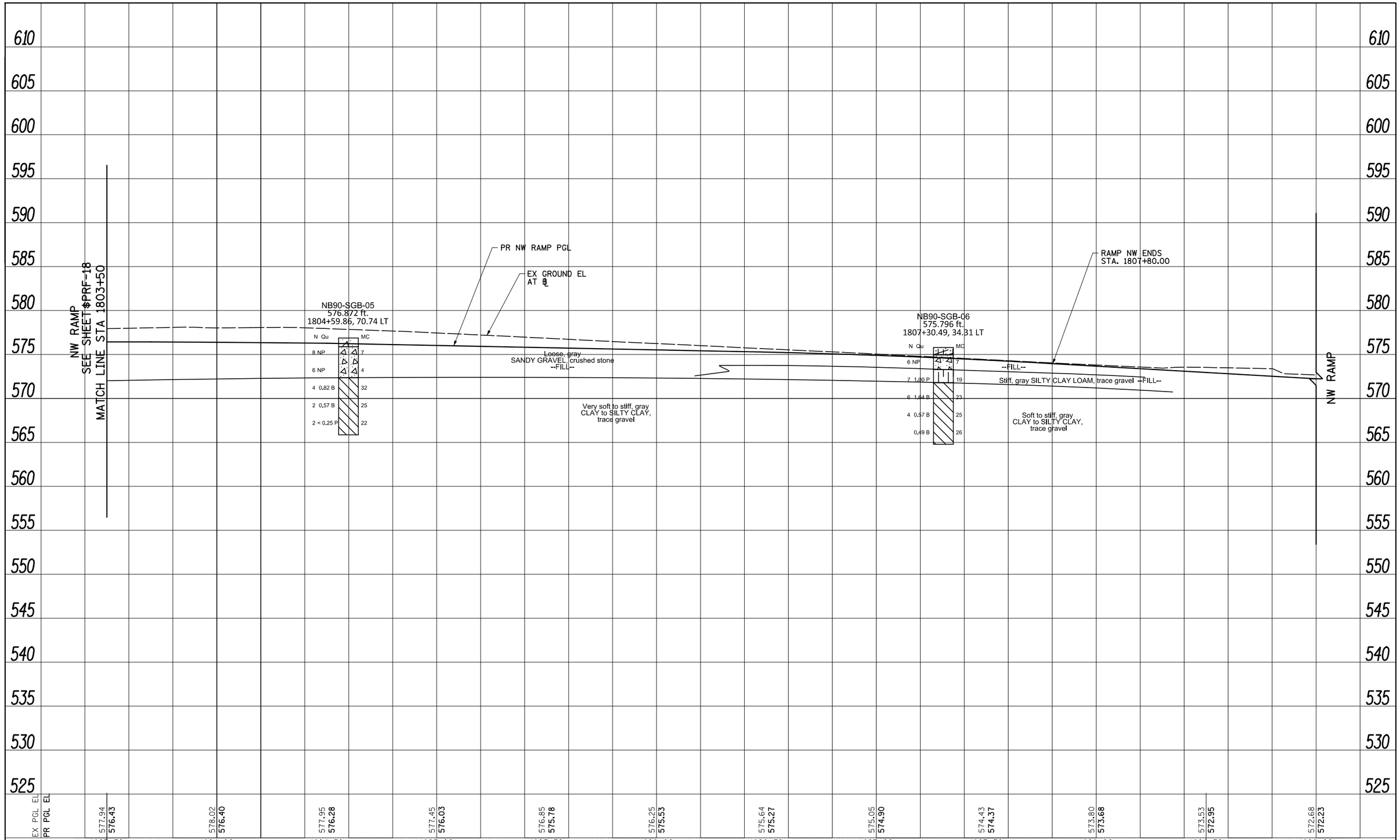
ROADWAY PROFILE
NW RAMP

SCALE: 1"=20' | SHEET $$PRF-18 OF $PRF-19 SHEETS | STA. 1799+15.31 TO STA. 1803+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-18

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
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PROFILE
SURVEYED
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NOTE BOOK
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BM. NOTED
STRUCTURE NOTATNS CHKD

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TranSystems

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USER NAME = $USER$	DRAWN - $PRF-01-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
NW RAMP

SCALE: 1"=20' | SHEET $#PRF-19 OF $PRF-SHEETS | STA. 1803+50 | TO STA. 1809+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-19

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
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BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BAR. NOTED
STRUCTURE NOTATNS CHKD

ROOSEVELT ROAD ENTRANCE RAMP

ROOSEVELT RD ENTRANCE BEGINS
STA. 7249+29.42

NB90-SGB-05
576.8 ft.
7251+12.68, 113.56 LT

N	Qu		MC
8	NP		7
6	NP		4
4	0.82	B	32
2	0.57	B	25
2	<0.25	P	22

Loose, gray SANDY GRAVEL to GRAVELLY SAND, crushed stone

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

PR ROOSEVELT RD ENTRANCE PGL

EX GROUND EL AT ℄

Loose, gray SANDY GRAVEL, crushed stone –FILL–

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

MATCH LINE STA 7253+00
SEE SHEET $PRF-17
ROOSEVELT ROAD ENTRANCE RAMP

	610	605	600	595	590	585	580	575	570	565	560	555	550	545	540	535	530	525
EX PGL EL																		
PR PGL EL																		

587.16	584.60	582.01	579.64	577.98	577.07	576.40	575.92	575.46	575.04
587.12	**584.62**	**581.79**	**578.96**	**576.61**	**575.44**	**575.18**	**574.96**	**574.75**	**574.52**

7248+50 | 7249+00 | 7249+50 | 7250+00 | 7250+50 | 7251+00 | 7251+50 | 7252+00 | 7252+50 | 7253+00

FILE PATH = $FILE$

TranSystems

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USER NAME = $USER$	DRAWN - $PRF-01-DR	REVISED -
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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

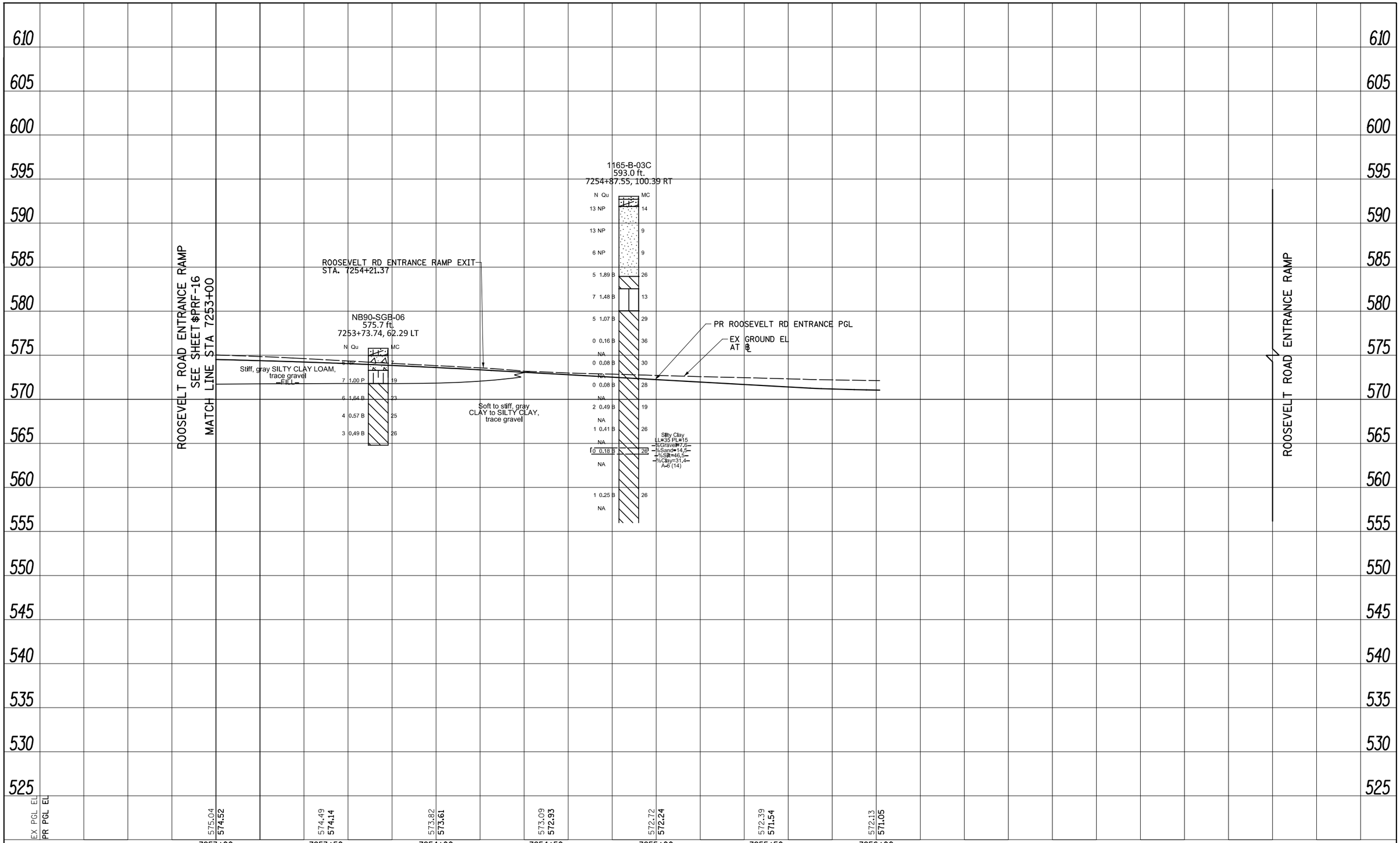
ROADWAY PROFILE
ROOSEVELT ROAD ENTRANCE RAMP

SCALE: 1"=20' | SHEET $$PRF-16 OF $PRF-SHEETS | STA. 7247+55 | TO STA. 7253+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-16

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



PLAN
NOTE BOOK NO.
SURVEYED
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
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PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
ROOSEVELT ROAD ENTRANCE RAMP

SCALE: 1"=20' | SHEET $$PRF-10 OF $PRF-SHEETS | STA. 7253+00 TO STA. 7256+01.49

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-17

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

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

PROFILE
SURVEYED
PLOTTED
PROJECT CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535 530 525

TAYLOR STREET ENTRANCE RAMP

TAYLOR ST ENTRANCE RAMP BEGINS
STA. 6305+21.15

PR TAYLOR ST ENTRANCE RAMP PGL

EX GROUND EL AT ℄

TAYLOR ST ENTRANCE RAMP ENDS
STA. 6309+70.74
*Note: Sta. out of plan

TAYLOR STREET ENTRANCE RAMP

NB90-SGB-08
577.2 ft.
6305+41.57, 33.72 LT

Medium dense to very dense, gray SANDY GRAVEL, crushed stone --FILL--

Stiff, gray CLAY to SILTY CLAY, trace gravel

Medium stiff, gray CLAY to SILTY CLAY, trace gravel

N	Qu		MC
55	NP	3	
26	NP	4	
6	1.23 B	23	
5	0.82 B	20	
4	0.74 B	24	

02-RWB-02
577.0 ft.
6306+53.46, 18.16 RT

Medium dense to very dense, gray SANDY GRAVEL, crushed stone --FILL--

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

N	Qu		MC
23	NP	7	
4	0.90 B	9	
5	0.57 B	22	
5	0.57 B	22	
4	0.33 B	25	
3	0.33 B	26	
2	0.25 B	26	
L 2	0.16 B	26	Silty Clay LL=36 PL=16 %Gravel=4.3 %Sand=14.7 %Silt=48.9 %Clay=32.1 A-6 (15)
2	0.25 B	26	

02-RWB-03
578.12 ft.
6307+22.31, 18.90 RT

Very soft to stiff, gray CLAY to SILTY CLAY LOAM, trace gravel

N	Qu		MC
32	NP	8	
4	0.82 B	20	
L 6	0.90 B	29	Silty Clay Loam LL=30 PL=14 %Gravel=3.1 %Sand=26.3 %Silt=51.1 %Clay=19.5 A-4 (9)
NA			
5	0.74 B	22	
NA			
3	0.33 B	25	
NA			
2	0.25 B	24	
NA			
3	0.33 B	26	
NA			
3	0.25 P	26	
2	0.16 B	26	
NA			

02-RWB-04
579.3 ft.
6307+97.24, 18.29 RT

Very soft to stiff, gray CLAY to SILTY CLAY LOAM, trace gravel

N	Qu		MC
16	NP	7	
8	1.07 B	22	
4	0.33 B	21	
4	0.57 B	22	
2	0.25 B	23	
3	0.25 B	25	
2	0.25 B	28	
1	0.25 B	24	
2	0.25 B	27	
2	0.25 B	27	

02-RWB-05
580.7 ft.
6308+72.84, 17.18 RT

Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel

Very soft to stiff, gray CLAY to SILTY CLAY, trace gravel

N	Qu		MC
24	NP	4	
8	2.38 B	17	
4	0.49 B	17	
L 5	0.41 B	16	Silty Clay LL=34 PL=15 %Gravel=4.2 %Sand=17.7 %Silt=47.9 %Clay=30.2 A-6 (13)
NA			
4	0.41 B	22	
NA			
5	0.33 B	25	
NA			
3	0.33 B	25	
NA			
3	0.16 B	25	
NA			
3	0.25 B	26	
NA			
4	0.16 B	25	
NA			

EX PGL EL		589.18		586.79		584.13		581.71		579.85	578.54	577.74		577.56		577.78		578.25		578.77		579.31	
PR PGL EL										579.06	577.21	576.71		577.01		577.28		577.65		578.18			
	6303+50		6304+00		6304+50		6305+00		6305+50		6306+00		6306+50		6307+00		6307+50		6308+00		6308+50		6309+00

FILE PATH = $FILE1$

Tran Systems

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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -	
PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
TAYLOR STREET ENTRANCE RAMP

SCALE: 1"=20' | SHEET $$PRF-20F $PRF-SHEETS | STA. 6303+50 | TO STA. 6309+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-20
		CONTRACT NO. 62A76		
		ILLINOIS FED. AID PROJECT		

NB CD ROAD BEGINS
STA. 6319+97.50
•Note: Station out of plan

NORTHBOUND C-D RAMP

EX GROUND EL AT ℄

PR NORTHBOUND C-D RAMP PGL

NB90-SGB-11
582.2 ft.
6321+68.86, 34.38 LT

1712-B-03
584.7 ft.
6322+64.94, 50.66 LT

1088-B-02
582.0 ft.
6323+44.44, 39.05 LT

1705-B-05
579.6 ft.
6324+45.34, 15.12 LT

Medium dense, gray SANDY GRAVEL, crushed stone
--AGGREGATE BASE--

Soft to medium stiff, gray
CLAY to SILTY CLAY, trace gravel

Stiff, brown to gray
SILTY CLAY LOAM, trace gravel
--FILL--

Soft to medium stiff, gray
CLAY to SILTY CLAY, trace gravel

CRUSHED STONE
--FILL--

Very soft to medium stiff, gray
CLAY to SILTY CLAY LOAM,
trace gravel

Loose, gray SANDY GRAVEL
--FILL--

Very soft to medium stiff, gray
CLAY to SILTY CLAY,
trace gravel

Silty Clay Loam
LL=36 PL=16
–%Gravel=5.8–
–%Sand=17.6–
–%Silt=48.3–
–%Clay=28.1–
A=1 (14)

Very loose,
gray LOAM

Silty Clay
LL=34 PL=15
–%Gravel=2.0–
–%Sand=15.5–
–%Silt=49.7–
–%Clay=32.8–

MATCH LINE STA 6324+50
SEE SHEET 3 OF PRF-22
NORTHBOUND C-D RAMP

EX PGL EL
PR PGL EL

6320+00	6320+50	6321+00	6321+50	6322+00	6322+50	6323+00	6323+50	6324+00	6324+50
583.03 / **583.81**	582.17 / **583.82**	581.79 / **583.66**	581.37 / **583.31**	580.86 / **582.63**	580.43 / **581.86**	580.14 / **580.99**	579.49 / **580.13**	580.25 / **579.44**	587.72 / **579.10**

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BM. NOTED
STRUCTURE NOTATNS CHKD

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

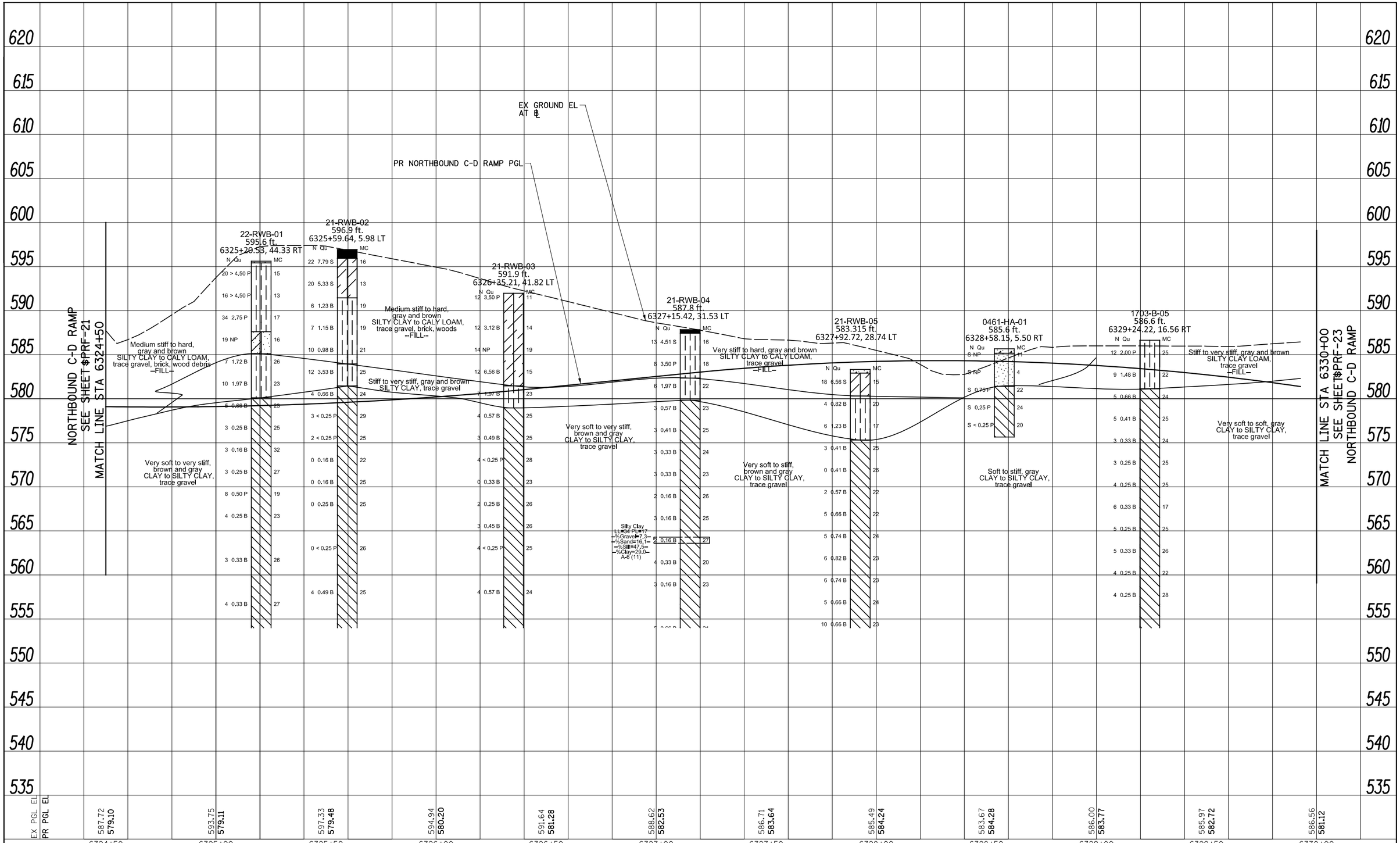
ROADWAY PROFILE
NORTHBOUND C–D RAMP

SCALE: 1"=20' | SHEET $$PRF-20 OF $PRF-SHEETS | STA. 6319+00 | TO STA. 6324+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-21

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHK'D
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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

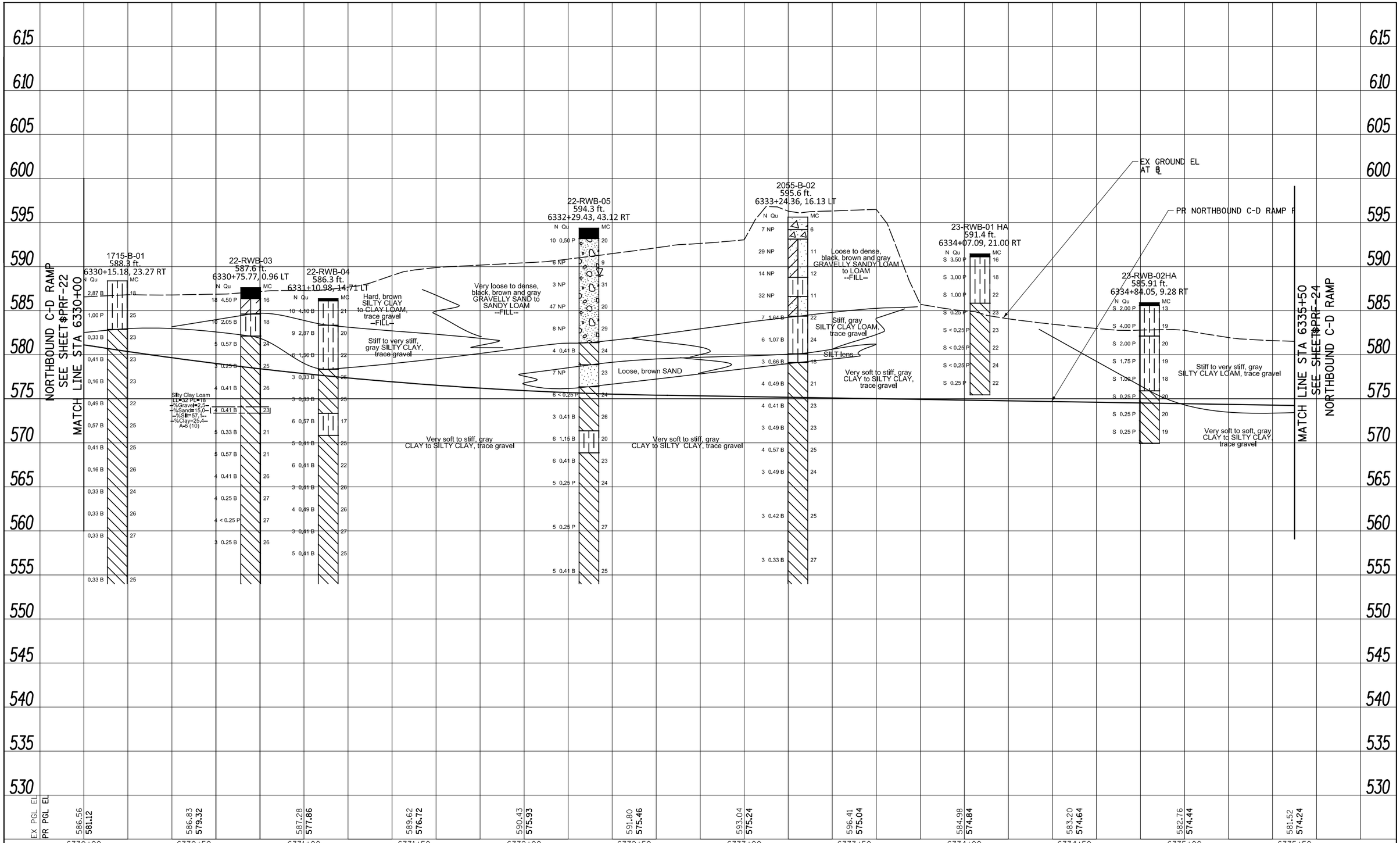
ROADWAY PROFILE
NORTHBOUND C-D RAMP

SCALE: 1"=20' | SHEET $$PRF-22 OF $PRF-SHEETS | STA. 6324+50 TO STA. 6330+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-22

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

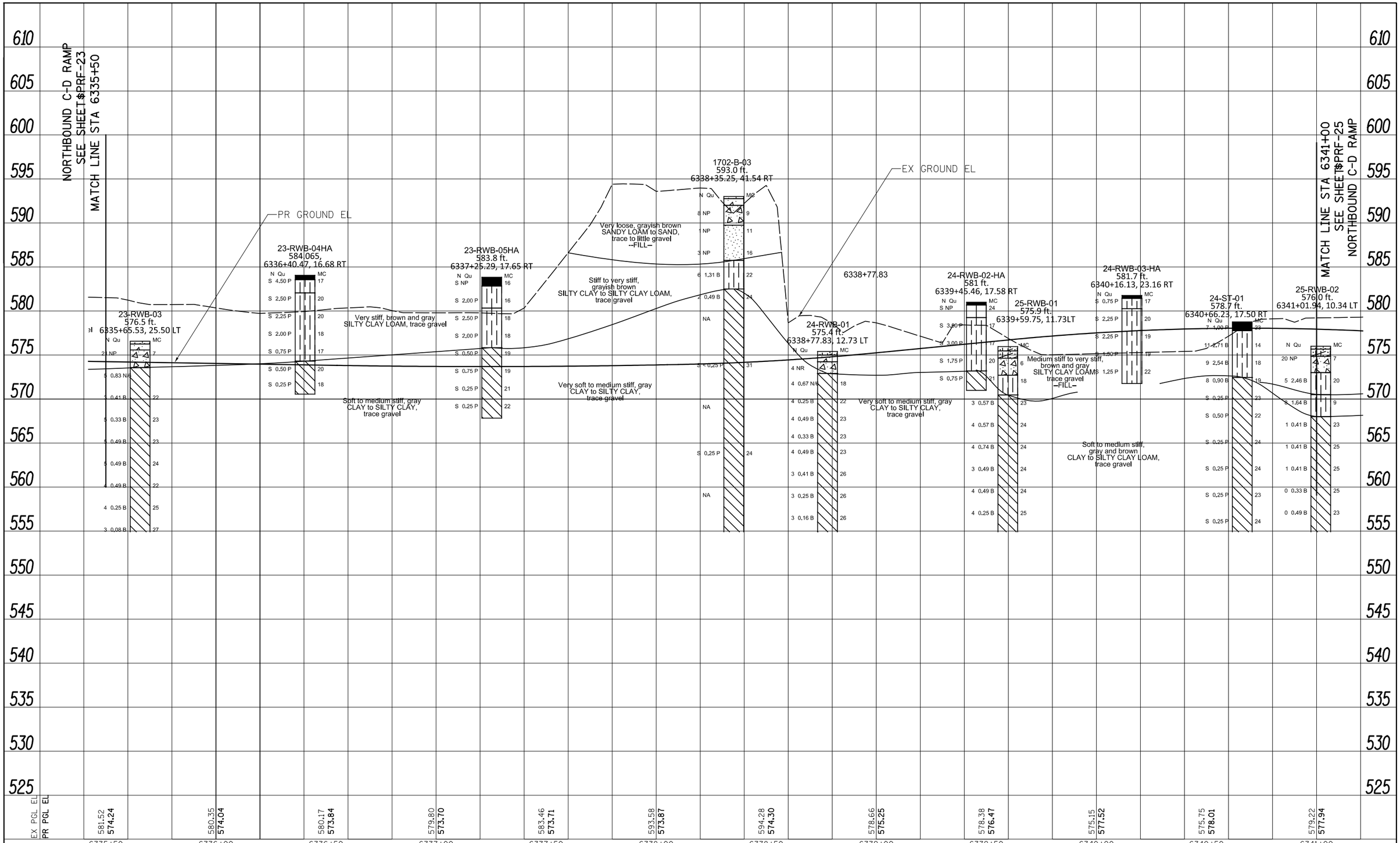
ROADWAY PROFILE
NORTHBOUND C-D RAMP

SCALE: 1"=20' | SHEET $$PRF-22 OF $PRF-SHEETS | STA. 6330+00 TO STA. 6335+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-23

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
NORTHBOUND C-D RAMP

SCALE: 1"=20' | SHEET $$PRF-24 OF $PRF-SHEETS | STA. 6335+50 TO STA. 6341+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-24

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

NORTHBOUND C-D RAMP
SEE SHEET $PRF-24
MATCH LINE STA 6341+00

PR NORTHBOUND C-D RAMP PGL

EX GROUND EL
AT ℄

MATCH LINE STA 6346+50
SEE SHEET $PRF-26
NORTHBOUND C-D RAMP

25-RWB-02
576.0 ft.
6341+01.94, 10.34 LT

N Qu MC
20 NP 7
5 2.46 B 20
8 1.64 B 9
1 0.41 B 23
1 0.41 B 25
1 0.41 B 25
0 0.33 B 25
0 0.49 B 23

Very stiff to hard, brown
SILTY CLAY to SILTY CLAY LOAM,
trace gravel
--FILL--

Stiff, gray and brown
SILTY CLAY LOAM,
trace gravel

Soft,
brown and gray
CLAY to SILTY CLAY LOAM,
trace gravel

27-RWB-01
579.1 ft.
6344+30.06, 20.62 LT

N Qu MC
7 4.10 B 15
2 0.16 B 27
2 0.16 B 25
2 < 0.25 P 23
2 0.41 B 25
2 0.49 B 25
3 0.57 B 25
6 0.57 B 26
3 0.33 B 27
3 < 0.25 P 30

Very soft to medium stiff,
brown and gray
CLAY to SILTY CLAY,
trace gravel

Stiff to hard,
brown and gray
SILTY CLAY LOAM,
trace gravel
--FILL--

28-RWB-01
579.7 ft.
6344+98.76, 30.80 LT

N Qu MC
34 NP 4
6 0.49 B 20
4 0.25 B 22
2 0.33 B 22
3 0.33 B 21
1 0.33 B 25
0 0.33 B 24
1 0.41 B 24
0 0.41 B 25
0 0.41 B 26

Soft to medium stiff,
brown and gray
CLAY to SILTY CLAY,
trace gravel

27-RWB-02
579.6 ft.
6345+83.70, 22.60 LT

N Qu MC
17 NP 5
4 0.41 B 23
2 0.41 B 26
3 0.41 B 25
3 0.25 B 25
3 0.41 B 25
2 0.41 B 17
3 0.33 B 26
3 0.33 B 26
7 0.41 B 25

	6341+00	6341+50	6342+00	6342+50	6343+00	6343+50	6344+00	6344+50	6345+00	6345+50	6346+00	6346+50
EX PGL EL	579.22	577.12	576.75	578.19	580.25	579.71	580.65	581.91	582.01	582.14	580.74	578.68
PR PGL EL	577.94	577.42	577.13	577.25	577.50	577.71	577.78	577.70	577.47	577.10	576.72	576.33

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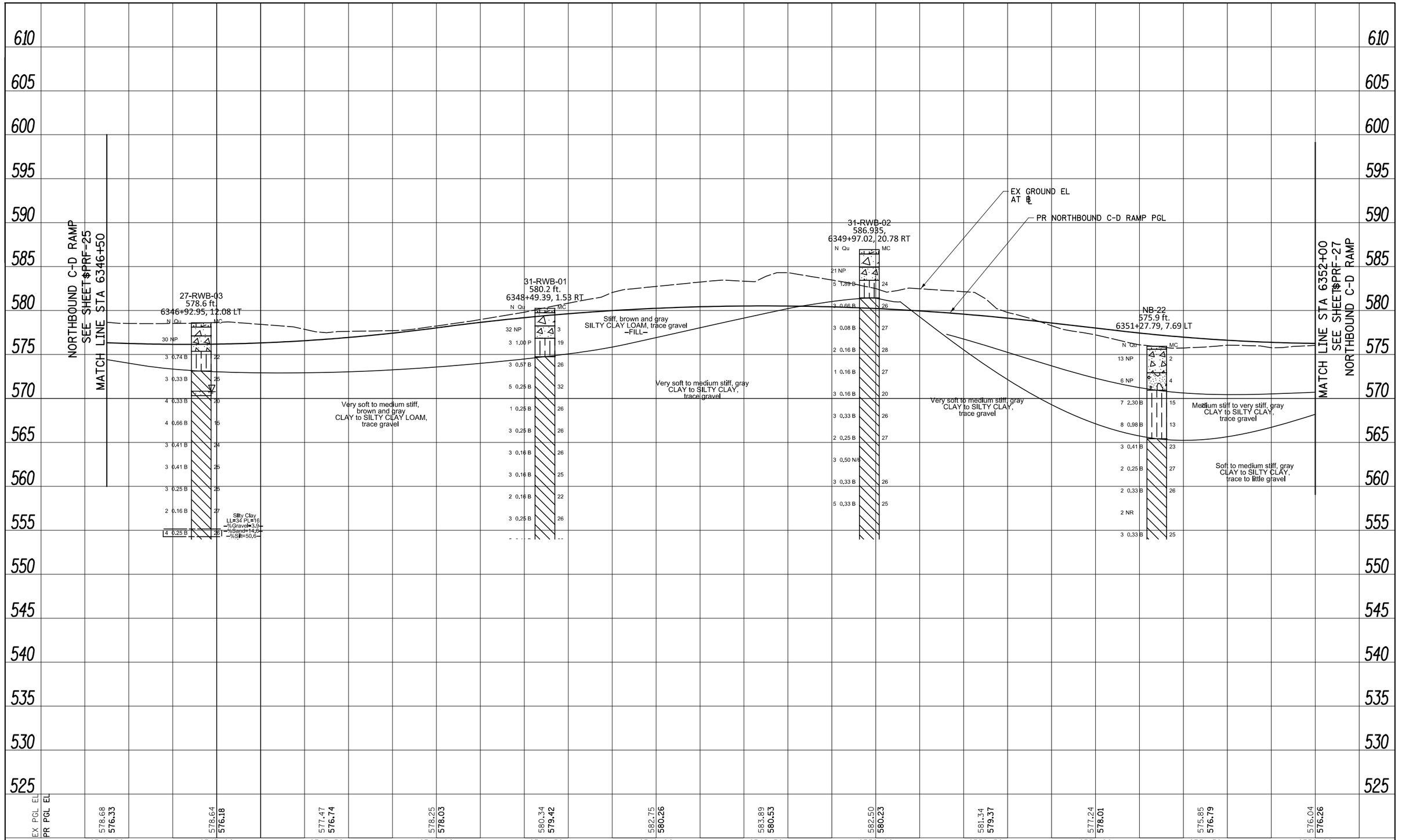
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
NORTHBOUND C-D RAMP

SCALE: 1"=20' | SHEET $SPRF-25F $PRF-SHEETS | STA. 6341+00 | TO STA. 6346+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-25
		CONTRACT NO. 62A76		
		ILLINOIS FED. AID PROJECT		



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STRUCTURE NOTAT'NS CH'KD
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FILE PATH = $FILEL$

TranSystems

$FILES$	DESIGNED - $PRF-01-DE	REVISED -
USER NAME = $USER$	DRAWN - $PRF-01-DR	REVISED -
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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
NORTHBOUND C-D RAMP

SCALE: 1"=20' | SHEET $$PRF-26 OF $PRF-SHEETS | STA. 6346+50 TO STA. 6352+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-26

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

NORTHBOUND C-D RAMP
SEE SHEET $PRF-26
MATCH LINE STA 6346+50

32-RWB-01
577.4 ft.
6352+76.22, 16.08 RT

NB90-SGB-19
578.1 ft.
6353+58.46, 27.67 LT

PR NORTHBOUND C-D RAMP PGL

EX GROUND EL AT ℄

NORTHBOUND C-D RAMP ENDS
STA. 6367+04.01
•Note: Station out of plan

NORTHBOUND C-D RAMP

N QU MC
5 2.25 P 19
7 1.17 N/6
4 0.25 B 22
VS NA
VS NA
VS NA

Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--

Soft to stiff, gray CLAY to SILTY CLAY, trace gravel

N QU MC
20 NP 4
12 > 4.50 P 14
6 1.80 B 21
3 0.41 B 32
2 0.66 B 26

Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--

Soft to stiff, gray CLAY to SILTY CLAY, trace gravel

	6352+00	6352+50	6353+00	6353+50	6354+00	6354+50	6355+00	6355+50	6356+00	6356+50	6357+00	6357+50
EX PGL EL	576.04	576.86	578.30	579.43	579.99	579.55	578.91	579.09	579.03	578.68	578.56	578.17
PR PGL EL	**576.26**	**576.45**	**577.32**	**578.11**	**578.39**	**578.54**	**578.46**	**578.40**	**578.33**	**578.11**		

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STRUCTURE NOTATNS CHKD

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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

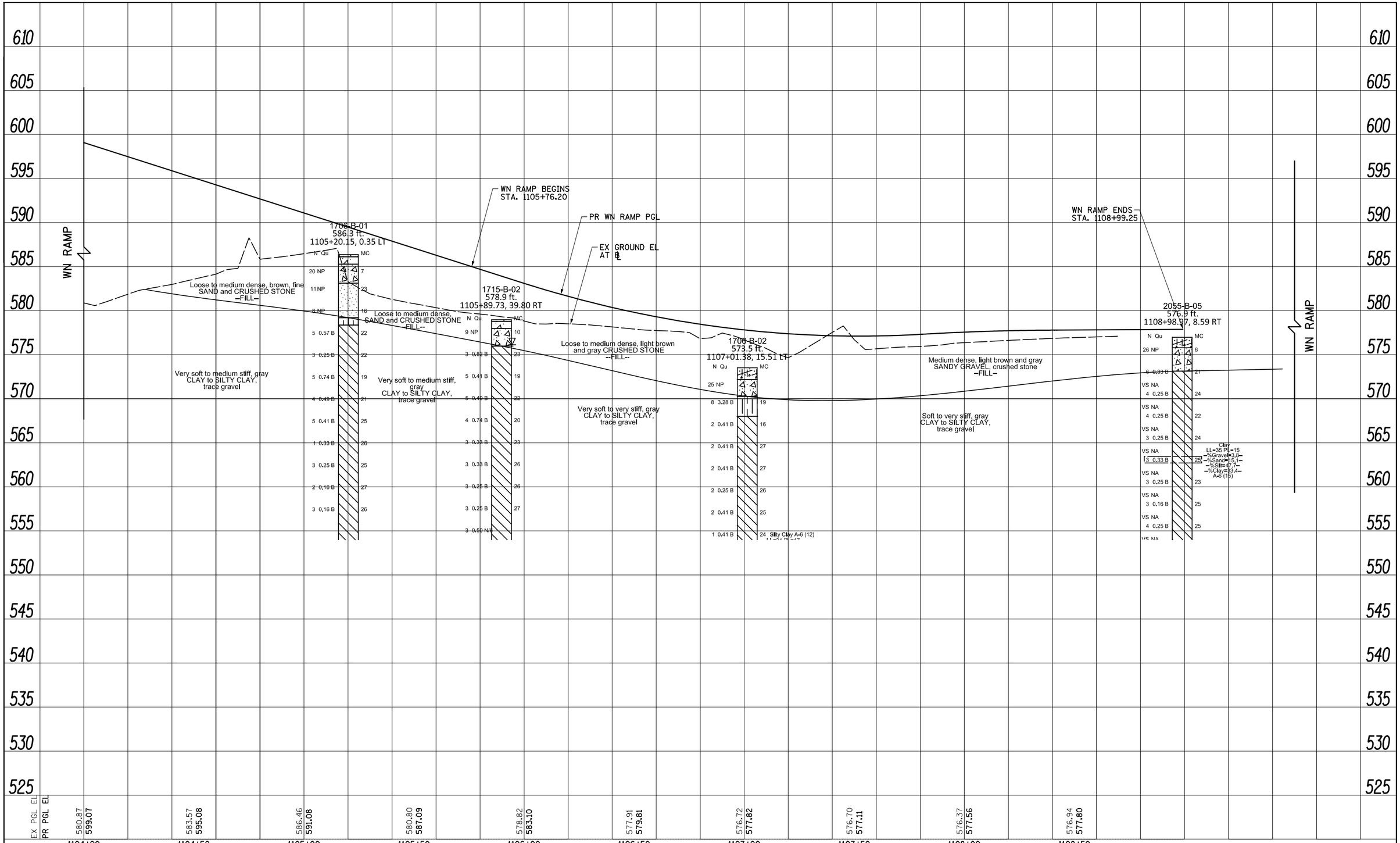
ROADWAY PROFILE
NORTHBOUND C-D RAMP

SCALE: 1"=20' | SHEET $$PRF-20F $PRF-34SHEETS | STA. 6352+00 | TO STA. 6357+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-27

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



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GRADES CHECKED
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FILE PATH = $FILEL$

TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

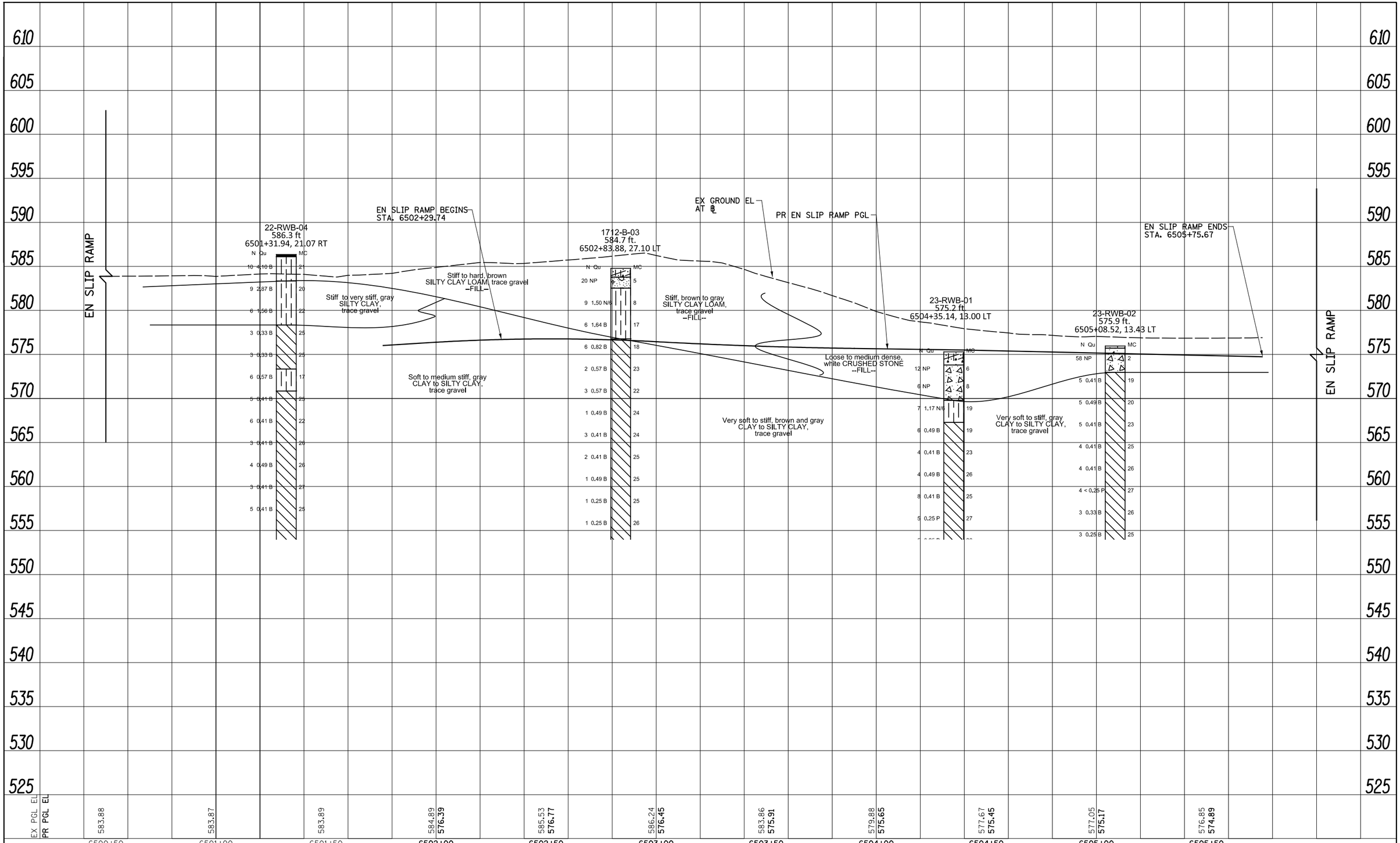
ROADWAY PROFILE
WN RAMP

SCALE: 1"=20' | SHEET $$PRF-28 OF $PRF-SHEETS | STA. 1104+00 TO STA. 1108+99.25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-28

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT



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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
EN SLIP RAMP

SCALE: 1"=20' | SHEET $$PRF-31 OF $PRF-31 SHEETS | STA. 6500+50 TO STA. 6505+76.31

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-31

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

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EN RAMP

EX GROUND EL AT ℄

PR EN RAMP PGL

RAMP EN BEGINS STA. 1617+70.00

1712-B-03
584.7 ft.
1618+00.8, 4.78 RT

N	Qu	
20	NP	5
9	1.50 N/6	8
6	1.64 B	17
6	0.82 B	18
2	0.57 B	23
3	0.57 B	22
1	0.49 B	24
3	0.41 B	24
2	0.41 B	25
1	0.49 B	25
1	0.25 B	25
1	0.25 B	26

Stiff, brown to gray SILTY CLAY LOAM, trace gravel --FILL--

Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Loose to medium dense, white CRUSHED STONE --BASE COURSE--

Soft to medium stiff, brown and gray CLAY to SILTY CLAY, trace gravel

23-RWB-01
575.2 ft.
1619+54.44, 29.74 RT

N	Qu	
12	NP	6
6	NP	8
7	1.17 N/6	19
6	0.49 B	19
4	0.41 B	23
4	0.49 B	26
8	0.41 B	25
5	0.25 P	27

MATCH LINE STA 1620+00
SEE SHEET 3 OF PRF-30
EN RAMP

	1614+50	1615+00	1615+50	1616+00	1616+50	1617+00	1617+50	1618+00	1618+50	1619+00	1619+50	1620+00
EX PGL EL	582.99	581.64	580.88	580.21	582.70	582.06	581.56	585.24	581.60	578.53	579.54	577.03
PR PGL EL	579.33	577.47	576.27	575.73	575.87	576.64	577.29	577.44	577.24	577.03	576.82	576.61

FILE PATH = $FILE$

TranSystems

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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

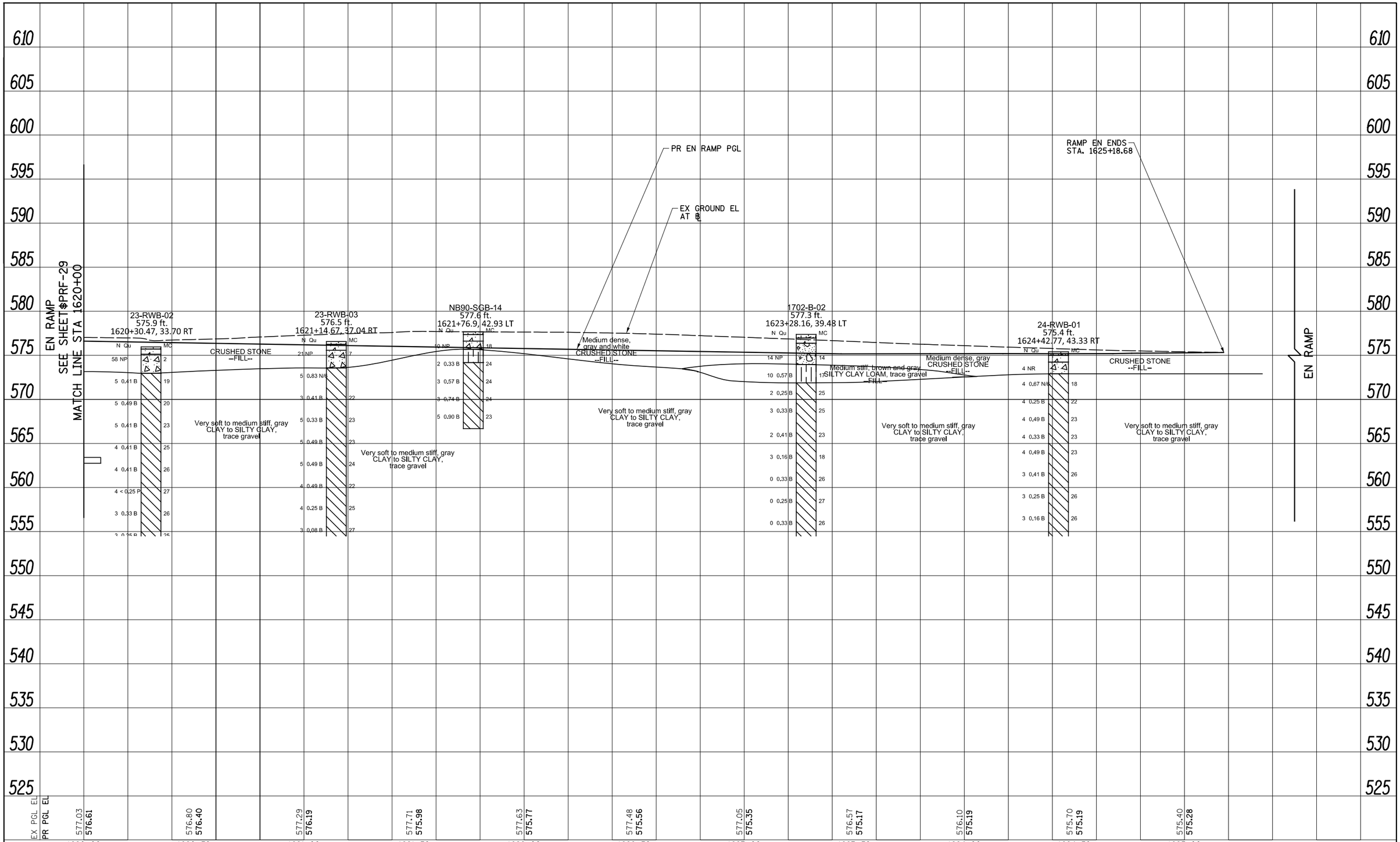
ROADWAY PROFILE
EN RAMP

SCALE: 1"=20' | SHEET $$PRF-29F $PRF-30ETS | STA. 1614+50 | TO STA. 1620+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-29

CONTRACT NO. 62A76

ILLINOIS | FED. AID PROJECT



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GRADES CHECKED
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STRUCTURE NOTAT'NS CH'KD
BY
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TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
EN RAMP

SCALE: 1"=20' | SHEET $$PRF-30 OF $PRF-30 SHEETS | STA. 1620+00 TO STA. 1625+23.70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-30

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

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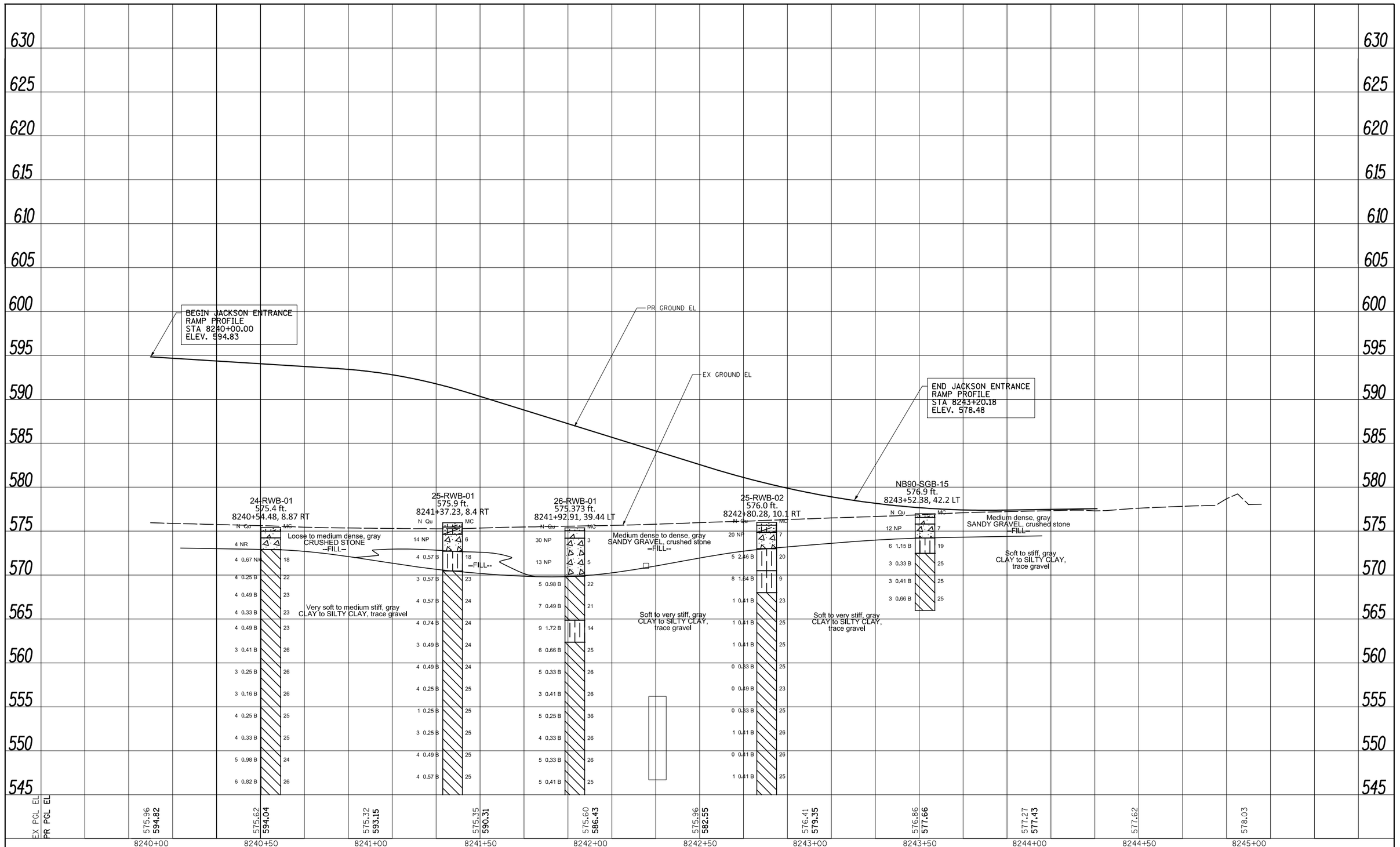

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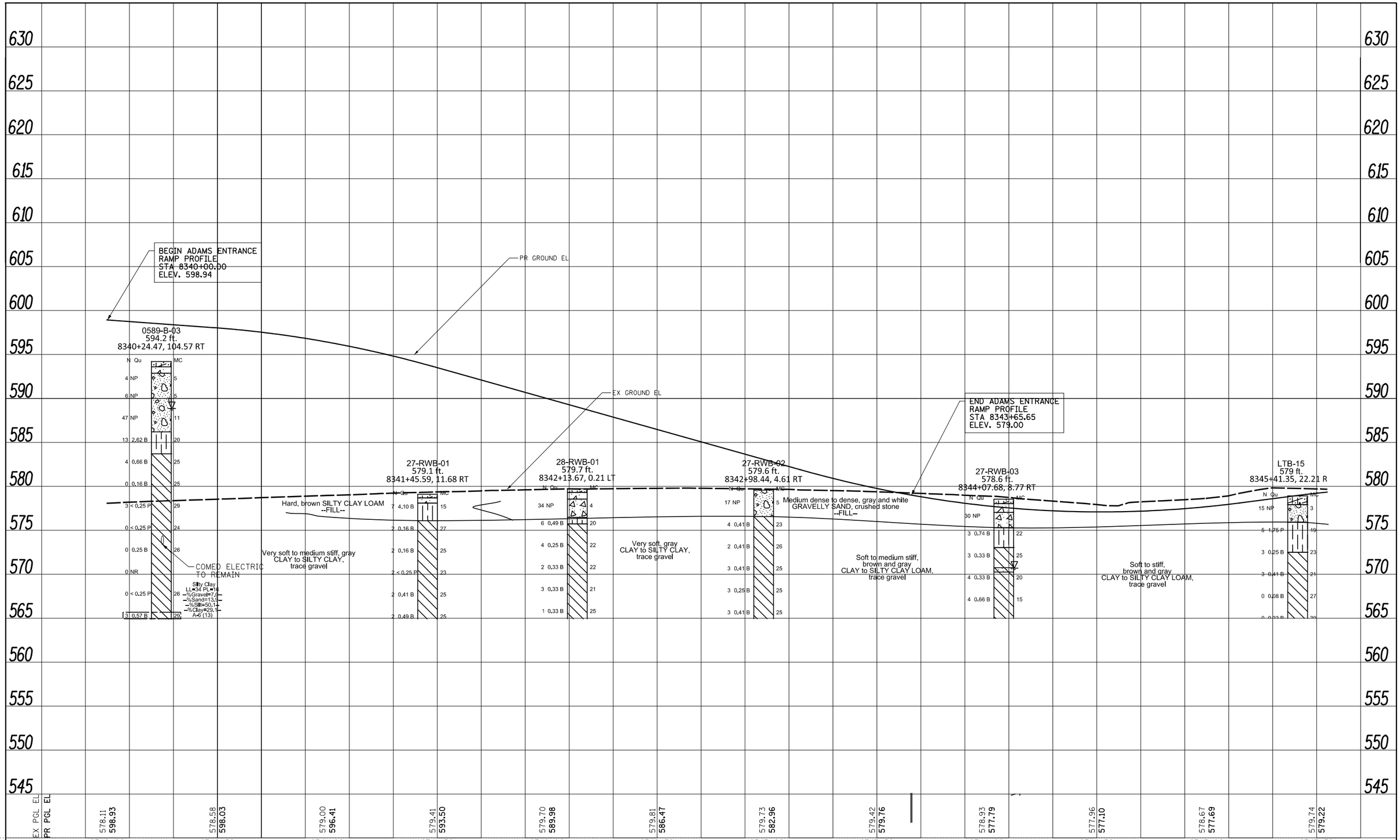
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
JACKSON ENTRANCE RAMP

SCALE: HORIZ: 1"=20' VERT: 1"=5' | SHEET $$PLN-19 OF $PLN-TSHEETS | STA.8240+00 TO STA.8245+10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-19
		CONTRACT NO. 60X94		
		ILLINOIS FED. AID PROJECT		



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
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
BY
DATE

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TranSystems

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

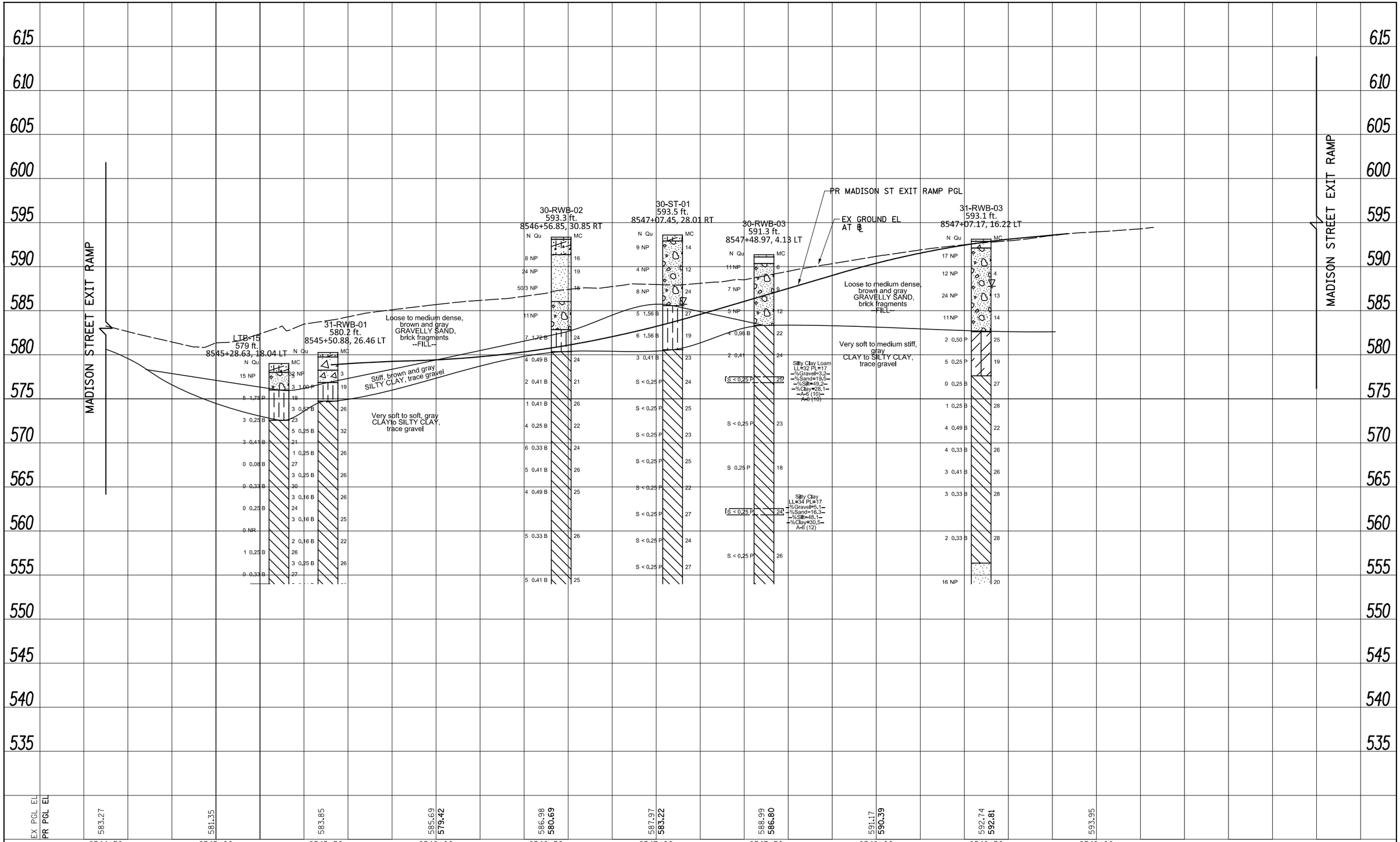
ROADWAY PROFILE
ADAMS ENTRANCE RAMP

SCALE: HORIZ: 1"=20' VERT: 1"=5' | SHEET $$PLN-17 OF $PLN-TOT SHEETS | STA.8340+00 TO STA.8345+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-17

CONTRACT NO. 60X94

ILLINOIS FED. AID PROJECT



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PROFILE NOTE BOOK NO. ____ SURVEYED ____ PLOTTED ____ GRADES CHECKED ____ B.M. NOTED ____ STRUCTURE NOTAT'NS CH'KD ____ BY ____ DATE ____

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
MADISON STREET EXIT RAMP

SCALE: 1"=20' | SHEET $$PRF-34 OF $PRF-34 SHEETS | STA. 8545+50 TO STA. 8549+20.21

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-34

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

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

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

620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535

WASHINGTON BOULEVARD EXIT RAMP

LTB-16
579.2 ft.
8681+09.44, 1.80 LT
N Qu MC
22 NP 3
8 3.36 B 17
3 0.25 B 24
2 0.25 B 21
2 0.25 B 24
2 0.16 B 27
2 0.16 27
2 0.25 B 28
2 0.16 B 26
2 0.25 B 27

Very stiff, gray SILTY CLAY, trace gravel and brick fragments --FILL--

Very soft to soft, gray CLAY to SILTY CLAY, trace gravel

32-RWB-02
583.5 ft.
8682+01.18, 2.64 RT
N Qu MC
3 2.05 B 22
3 0.25 P 25
3 0.25 B 21
6 < 0.25 P 22
2 0.16 B 28
3 0.41 B 23
3 0.33 B 23
2 0.25 B 27
2 0.08 B 25
3 0.33 B 27
2 0.25 B 28

Very stiff, SILTY CLAY, trace gravel --FILL--

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

32-ST-01
585.9 ft.
8682+45.34, 0.77 RT
N Qu MC
8 NP 4
8 2.25 P 16
3 0.33 B 25
S 0.50 P 25
S <0.25 P 26
S <0.25 P 24
S <0.25 P 24
S <0.25 P 27
S <0.25 P 26
S <0.25 P 25
S <0.25 P 24

Very stiff, SILTY CLAY, trace gravel --FILL--

Very soft to stiff, gray CLAY to SILTY CLAY, trace gravel

EX GROUND EL AT ℄

33-RWB-01
588.4 ft.
8683+03.41, 12.47 LT
N Qu MC
17 NP 4
4 NP 4
6 1.00 N/A
4 0.16 B 27
4 < 0.25 P 26
2 0.16 B 27
2 0.16 B 21
2 0.25 B 26
2 0.16 B 25
3 0.25 B 26
2 0.25 B 26
3 0.33 B 26

PR WASHINGTON BLVD EXIT RAMP PGL

32-RWB-03B
590.6 ft.
8684+49.27, 13.31 LT
N Qu MC
12 NP 4
4 0.75 P 24
44 NP 26
50/3 NP
3 0.33 B 26
S <0.25 P 26
S <0.25 P 31
S <0.25 P 26
S <0.25 P 26
S <0.25 P 26
S <0.25 P 26

Loose to dense, brown and white SANDY GRAVEL and crushed stone --FILL--

Medium stiff, brown SILTY CLAY LOAM, trace gravel and debris --FILL--

Very soft to soft, gray CLAY to SILTY CLAY, trace gravel

Silty Clay
LL=32 PL=15
%Gravel=2.3
%Sand=18.0
%Silt=49.2
%Clay=30.4
A-6 (12)

Silty Clay
LL=33 PL=16
%Gravel=3.2
%Sand=13.8
%Silt=49.0
%Clay=34.0
A-6 (13)

33-RWB-02
593.9 ft.
8684+36.73, 7.95 LT
N Qu MC
30 NP 3
9 NP 4
6 NP 5
6 0.50 P 19
5 NR
27 NP 9
6 1.23 B 24
4 < 0.25 P 30
0 0.41 B 31
1 < 0.25 P 32
0 0.49 B 27
3 < 0.25 P 28
1 0.41 B 26
0 0.41 B 27

Loose to dense, brown and white SANDY GRAVEL and crushed stone --FILL--

Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL--

Clay
LL=39 PL=18
%Gravel=5.1
%Sand=19.2
%Silt=42.2
%Clay=39.5
A-6 (17)

WASHINGTON BOULEVARD EXIT RAMP

EX PGL EL
PR PGL EL

576.64
577.18
578.78
580.90 577.62
583.34 578.72
588.14 584.95
590.62 588.69
592.64 592.15
594.15

8680+00 8680+50 8681+00 8681+50 8682+00 8682+50 8683+00 8683+50 8684+00 8684+50

FILE PATH = $FILE$

TranSystems

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PLOT SCALE = $SCALE$	CHECKED - $PRF-01-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
WASHINGTON BOULEVARD EXIT RAMP

SCALE: 1"=20' | SHEET $$PRF-35F $PRF-34E SHEETS | STA. 8681+21.03 | TO STA. 8684+33.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-35

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

RANDOLPH ST EXIT RAMP BEGINS
STA. 8740+00.00

RANDOLPH ST EXIT RAMP ENDS
STA. 8744+73.19

RANDOLPH STREET EXIT RAMP

RANDOLPH STREET EXIT RAMP

PR RANDOLPH ST EXIT RAMP PGL

EX GROUND EL AT ℄

33-RWB-02
593.9 ft.
8740+26.02, 31.91 RT

N Qu MC
30 NP 3
9 NP 4
6 NP 5
6 0.50 P 19
5 NR
27 NP 9
6 1.23 B 24
4 < 0.25 30
0 0.41 B 31
1 < 0.25 32
0 0.49 B 27
3 < 0.25 28
1 0.41 B 26
0 0.41 B 27

Clay
LL=39 PL=18
%Gravel=5.1
%Sand=13.2
%Silt=42.2
%Clay=39.5
A-6 (17)

Stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Z051-HA-1
586.7 ft.
8741+20.41, 20.41 RT

N Qu MC
S NP 17
S 2.50 P 21
S 2.25 P 20
S 2.50 P 20
S 1.50 P 23
S 0.50 P 21

LTB-17
582.58 ft.
8742+38.71, 2.42 LT

N Qu MC
NP 3
NP 11
0.50 P 16
0.25 B 28
0.25 B 26
2 0.25 B 23
3 0.33 B 21
4 0.33 B 22
3 0.41 B 24
4 0.41 B 24
4 0.41 B 25

Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel --FILL--

Very soft to soft, gray CLAY to SILTY CLAY LOAM, trace gravel

Z051-HA-3
586.38 ft.
8744+9.4234, 2.1 RT

N Qu MC
S NP 14
S > 4.50 P 19
S 2.50 P 23
S 1.75 P 25
S < 0.25 P 25
S < 0.25 P 25
S < 0.25 P 26

Z051-RWB-04
589.15 ft.
8743+63.62, 2.97 LT

N Qu MC
18 NP 3
50/1" NP 18
3 < 0.25 P 26
2 0.33 B 27
S < 0.25 P
VS NA
S 0.25 P 23
VS NA
S < 0.25 P
VS NA
S < 0.25 P
VS NA
S < 0.25 P
VS NA

Clay
LL=32 PL=17
%Gravel=6.8
%Sand=20.1
%Silt=43.4
%Clay=29.7
A-6 (9)

Clay
LL=33 PL=17
%Gravel=3.7
%Sand=14.7
%Silt=46.6
%Clay=35.0
A-6 (12)

Medium dense to very dense, black, brown and gray LOAM and CRUSHED STONE, some gravel, brick fragmetns --FILL--

Very soft to soft, gray CLAY to SILTY CLAY LOAM, trace gravel

EX PGL EL
PR PGL EL

580.65 **580.65**
583.18 **582.50**
585.81 **585.07**
588.45 **587.95**
590.90 **590.80**
592.93 **592.87**

8740+00 8740+50 8741+00 8742+00 8742+50 8743+00 8743+50 8744+00 8744+50 8745+00

615 610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535

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

PROFILE
SURVEYED
PLOTTED
PROF. CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
RANDOLPH STREET EXIT RAMP

SCALE: 1"=20' | SHEET $$PRF-36F $PRF-36ETS | STA. 8741+80.26 | TO STA. 8744+76.90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-36
		CONTRACT NO. 62A76		
	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE

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

610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535 530 525

LAKE STREET EXIT RAMP

LAKE EXIT RAMP BEGINS
STA. 8840+00

Very stiff, brown and gray SILTY CLAY LOAM, trace gravel -FILL-

32-RWB-02
583.5 ft.
8840+35.80, 28.2 RT

N	Qu	MC
	2.05 B	22
3	0.25 P	25
3	0.25 B	21
6	<0.25 P	22
2	0.16 B	28
3	0.41 B	23
3	0.33 B	23
2	0.25 B	27
2	0.08 B	25
3	0.33 B	27
2	0.25 B	28

32-ST-01
585.9 ft.
8840+79.98, 29.41 RT

N	Qu	MC
6	NP	4
8	2.25 P	16
3	0.33 B	25
S	0.50 P	25
S	<0.25 P	26
S	<0.25 P	24
S	<0.25 P	27
S	<0.25 P	26
S	<0.25 P	25
S	<0.25 P	24

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

33-RWB-01
588.4 ft.
8841+38.83, 20.25 RT

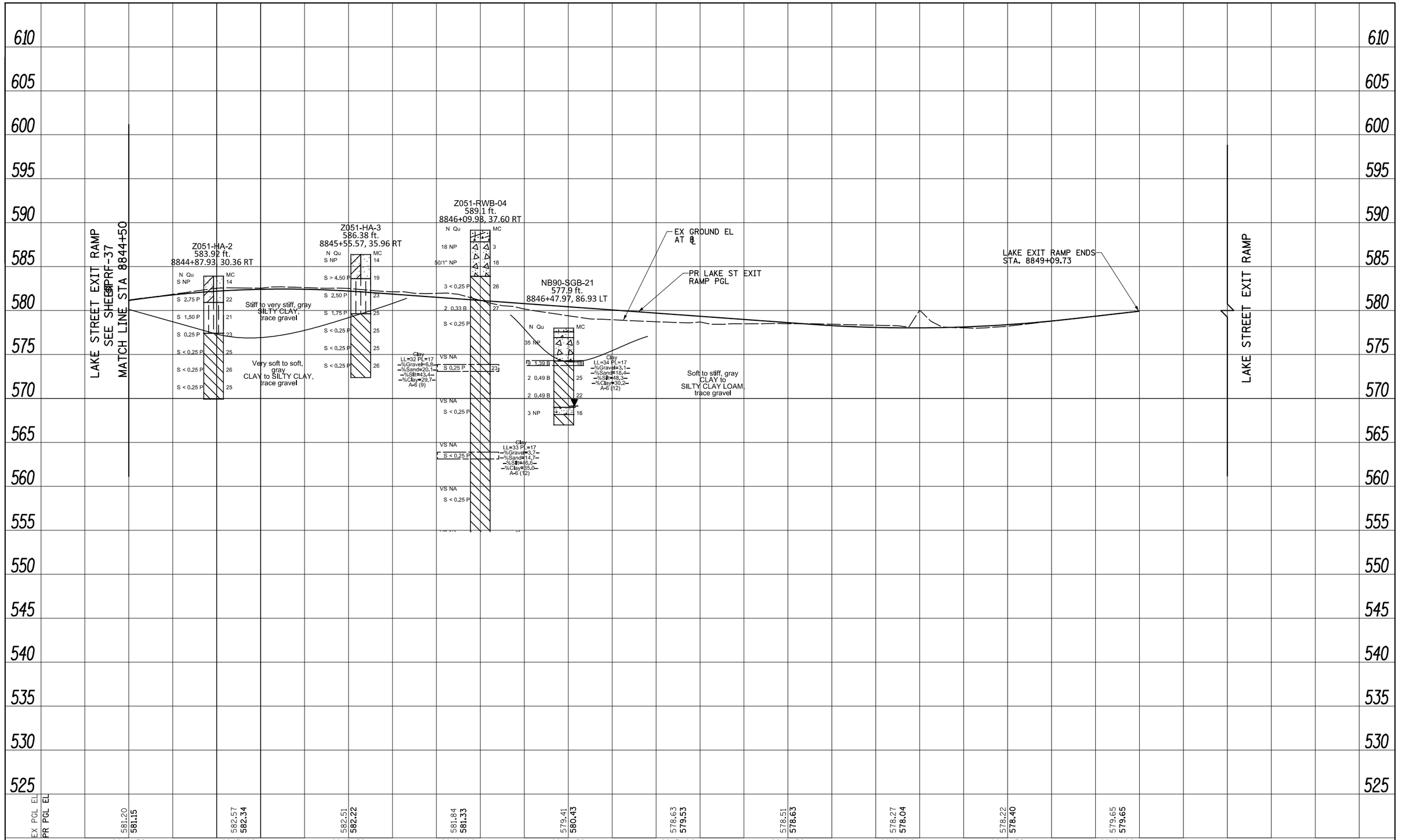
N	Qu	MC
17	NP	4
4	NP	4
6	1.00 N/A	
4	0.16 B	27
4	<0.25 P	26
2	0.16 B	27
2	0.16 B	21
2	0.25 B	26
2	0.25 B	25
3	0.25 B	26
2	0.25 B	26
3	0.33 B	26

PR LAKE ST EXIT RAMP PGL

EX GROUND EL AT ℄

32-RWB-03B
590.6 ft.
8841+83.28, 25.3 RT

N	Qu	MC
12	NP	4
4	0.75 P	24
44	NP	26
50/3	NP	
3	0.33 B	26
S	<0.25 P	26
S	<0.25 P	31
S	<0.25 P	26
S	<0.25 P	26
S	<0.25 P	26



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SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

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PLOT DATE = $DATE$	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
LAKE STREET EXIT RAMP

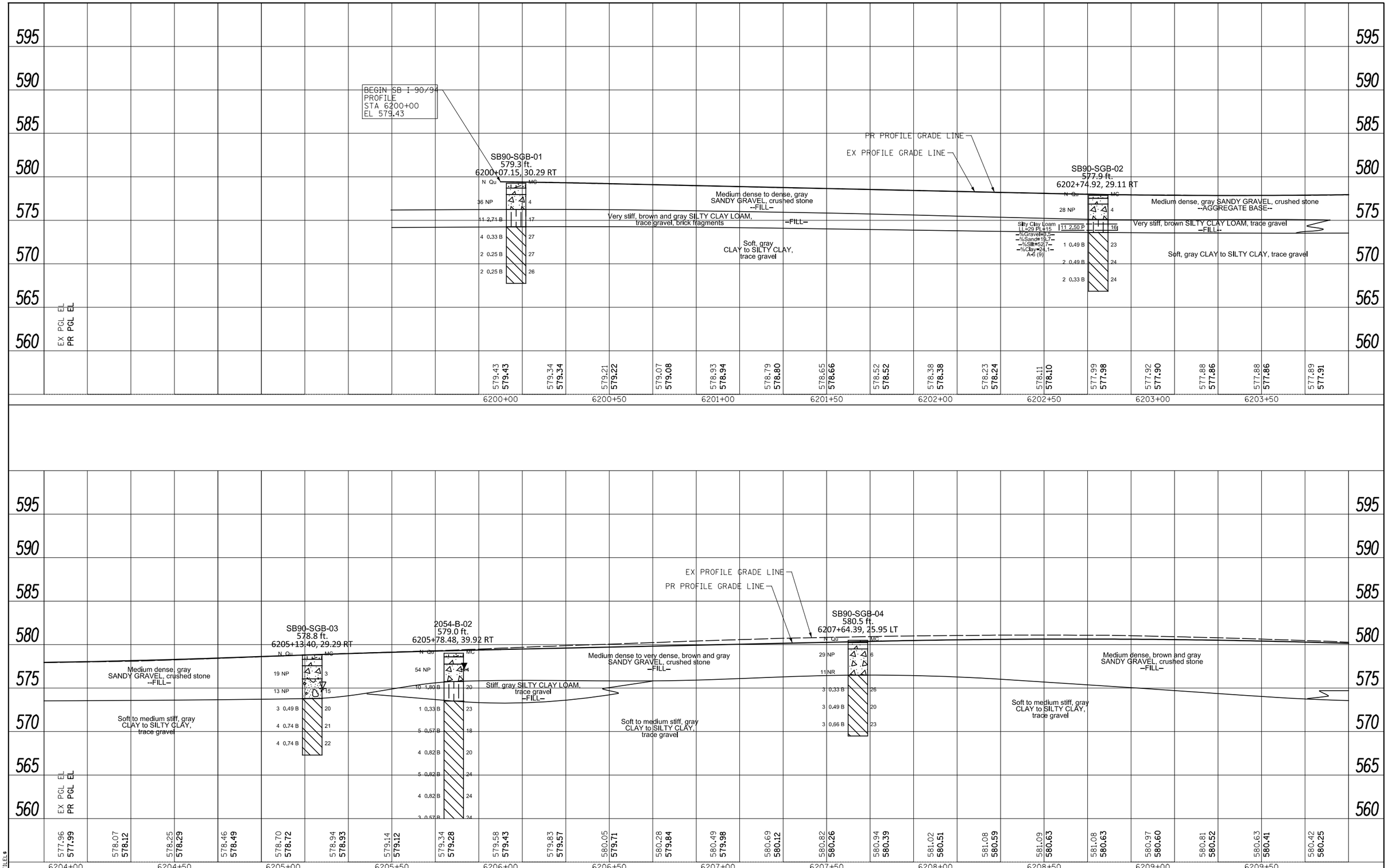
SCALE: 1"=20' | SHEET $$PRF-38 OF $PRF-38 SHEETS | STA. 8844+50.00 TO STA. 8849+09.73

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	$TOT	$PRF-38

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

- I-90/94 SB and Connecting Ramps



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

$FILES$	DESIGNED - SDH	REVISED -
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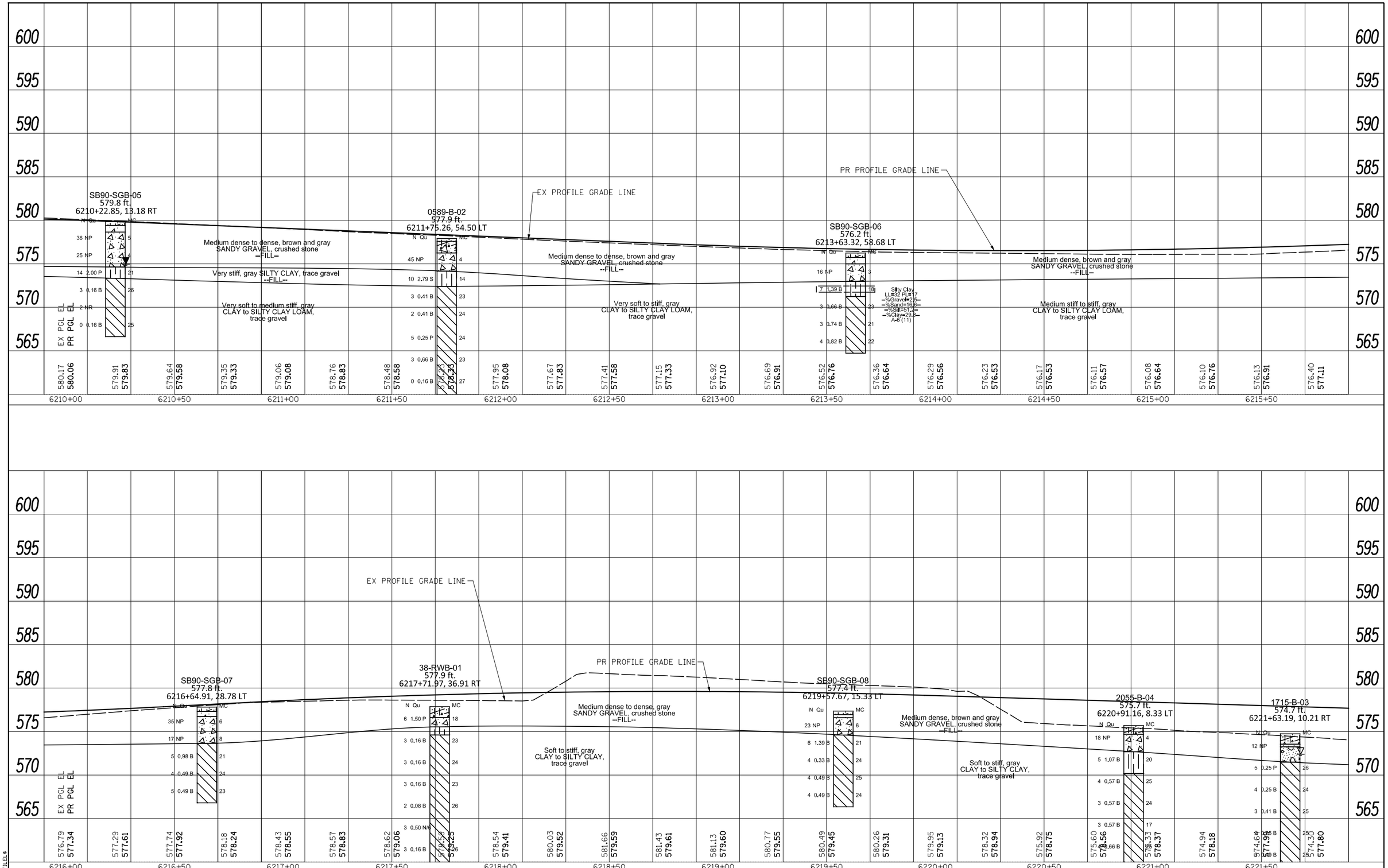
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB I-90/94

SCALE: 1"=20' | SHEET 1 OF $PRFSHEETS | STA. 6200+00.00 TO STA. 6209+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF01
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

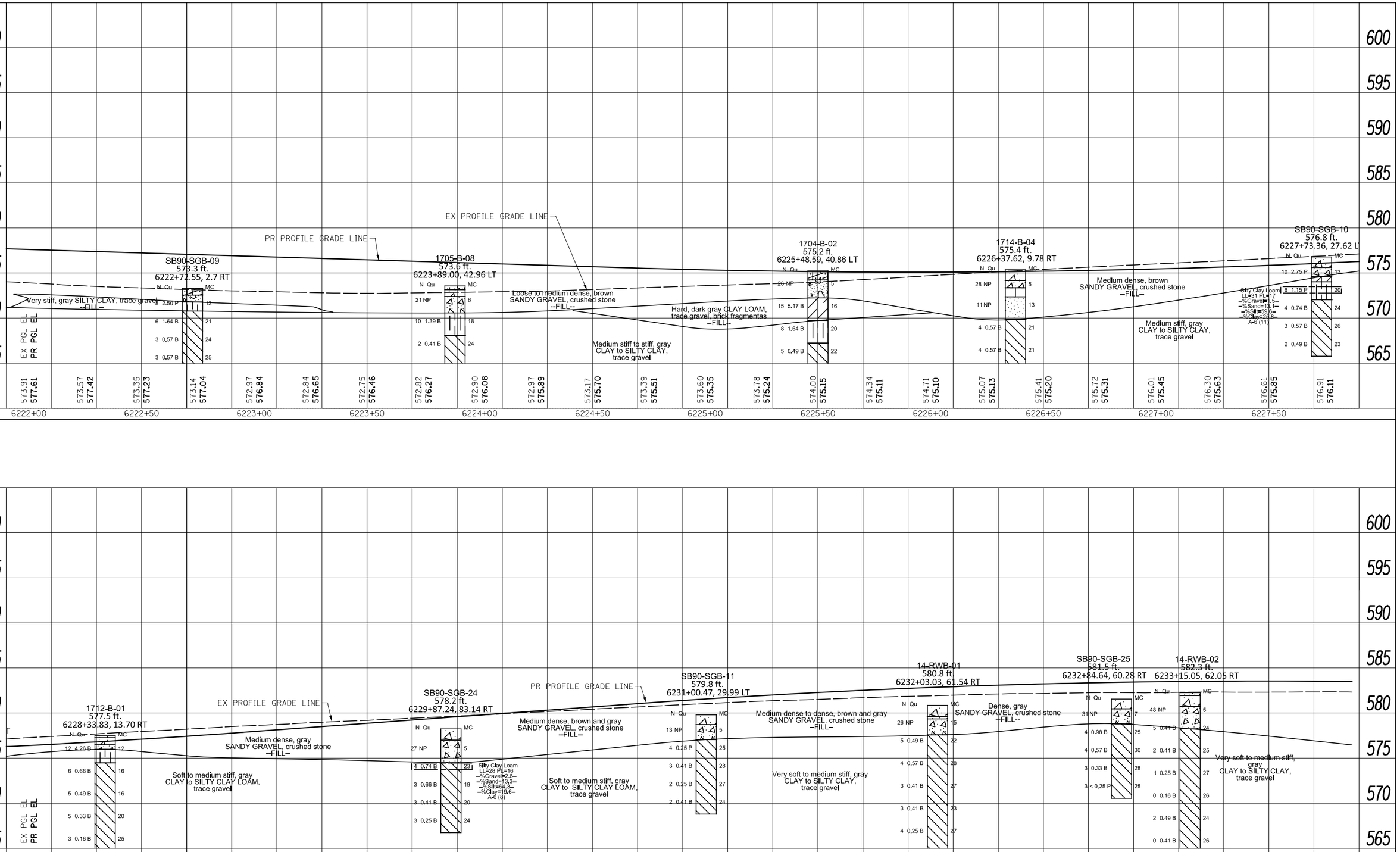
$FILES$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB I-90/94

SCALE: 1"=20' | SHEET 2 OF $PRFSHEETS | STA. 6209+90.00 TO STA. 6221+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF02
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

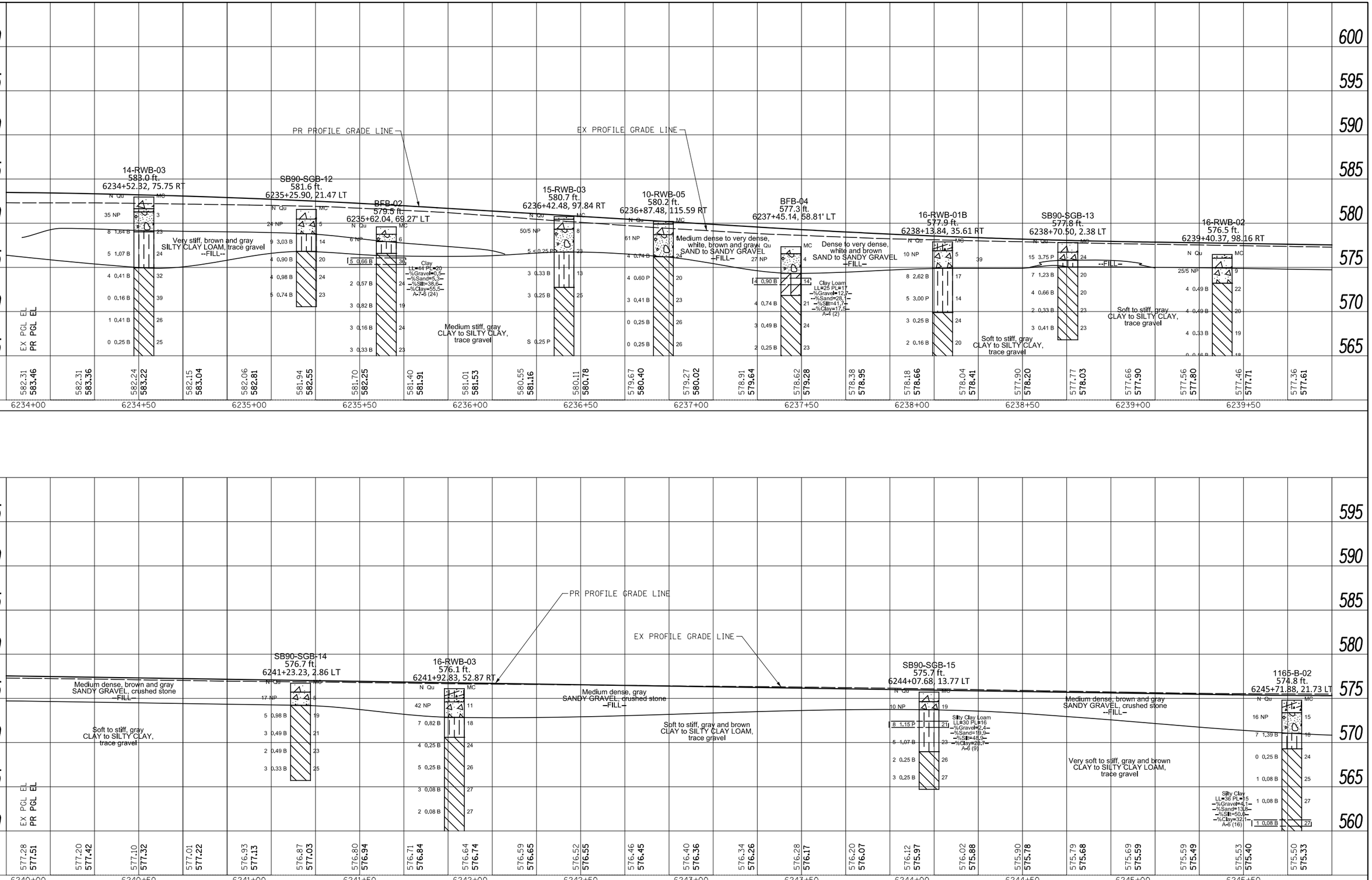
$FILES$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB I-90/94

SCALE: 1"=20' | SHEET 3 OF $PRFSHEETS | STA. 6221+90.00 | TO STA. 6233+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF03
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

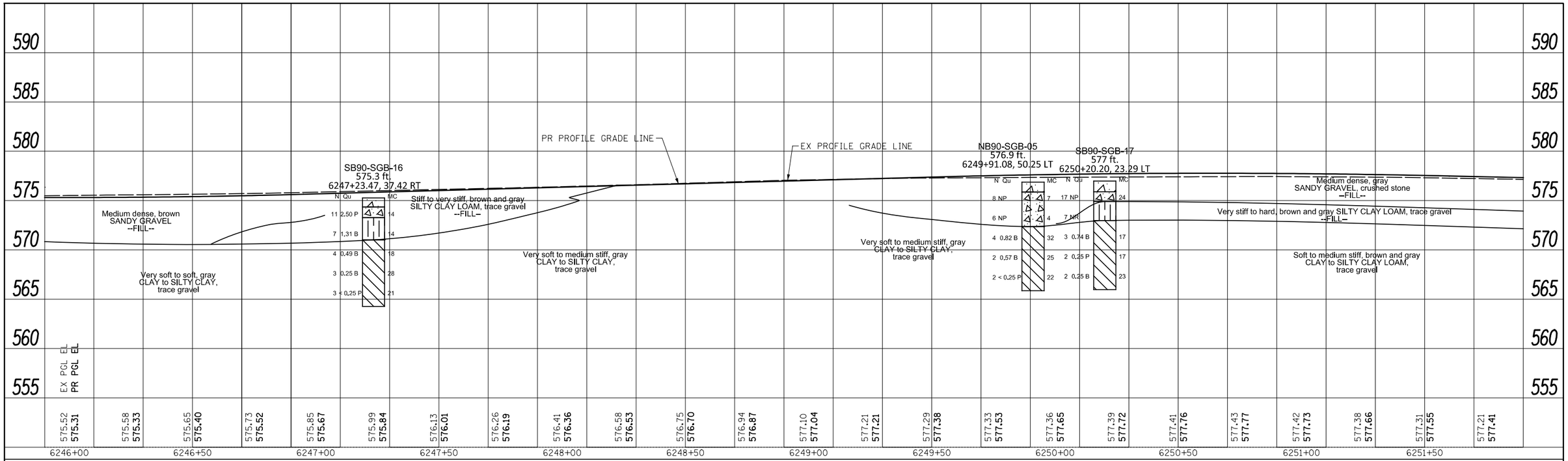
$FILES$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB I-90/94

SCALE: 1"=20' | SHEET 4 OF $PRFSHEETS | STA. 6233+90.00 | TO STA. 6245+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF04
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

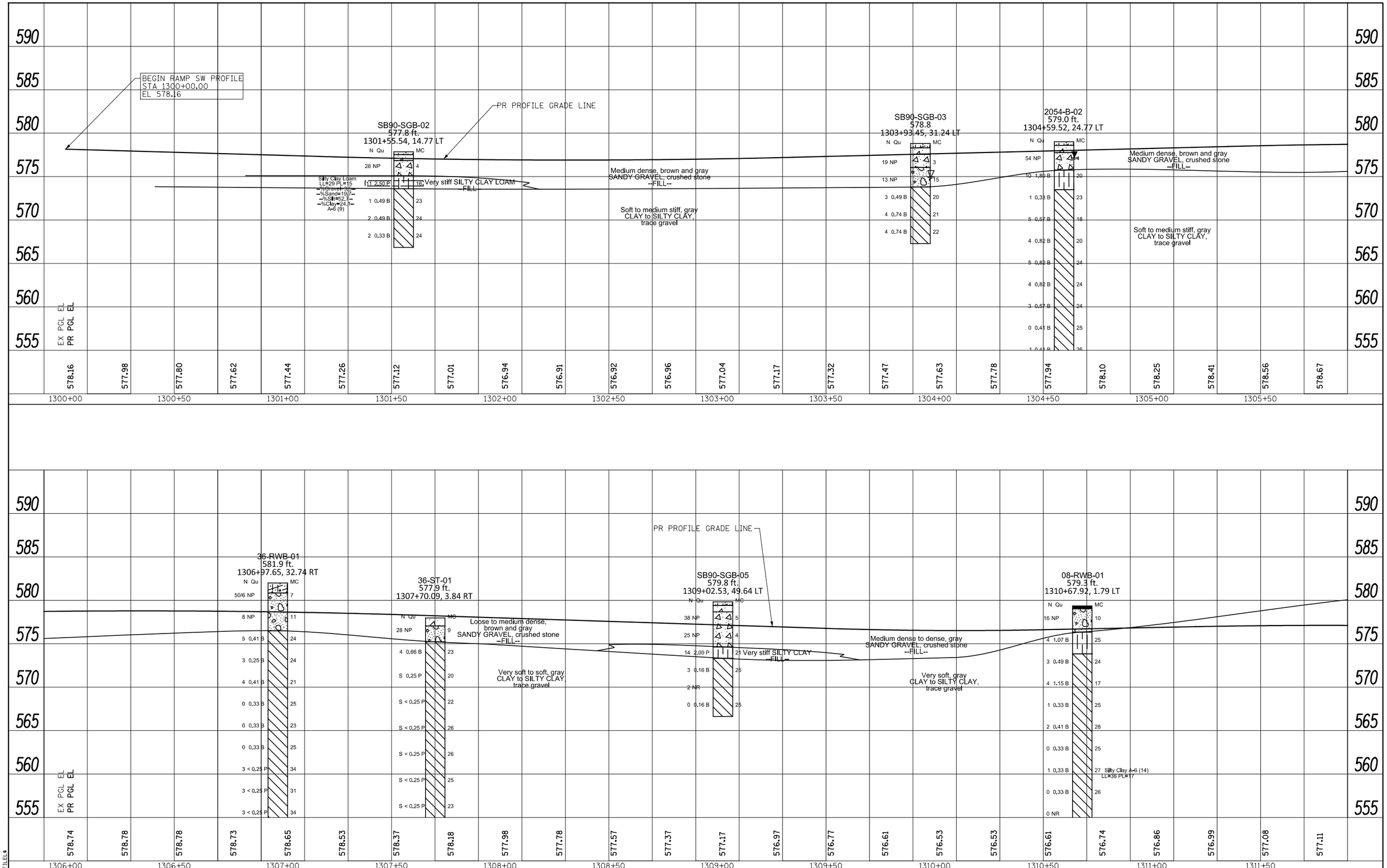
$FILES$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB I-90/94

SCALE: 1"=20' | SHEET 5 OF $PRFSHEETS | STA. 6245+90.00 | TO STA. 6255+72.78

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF05
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

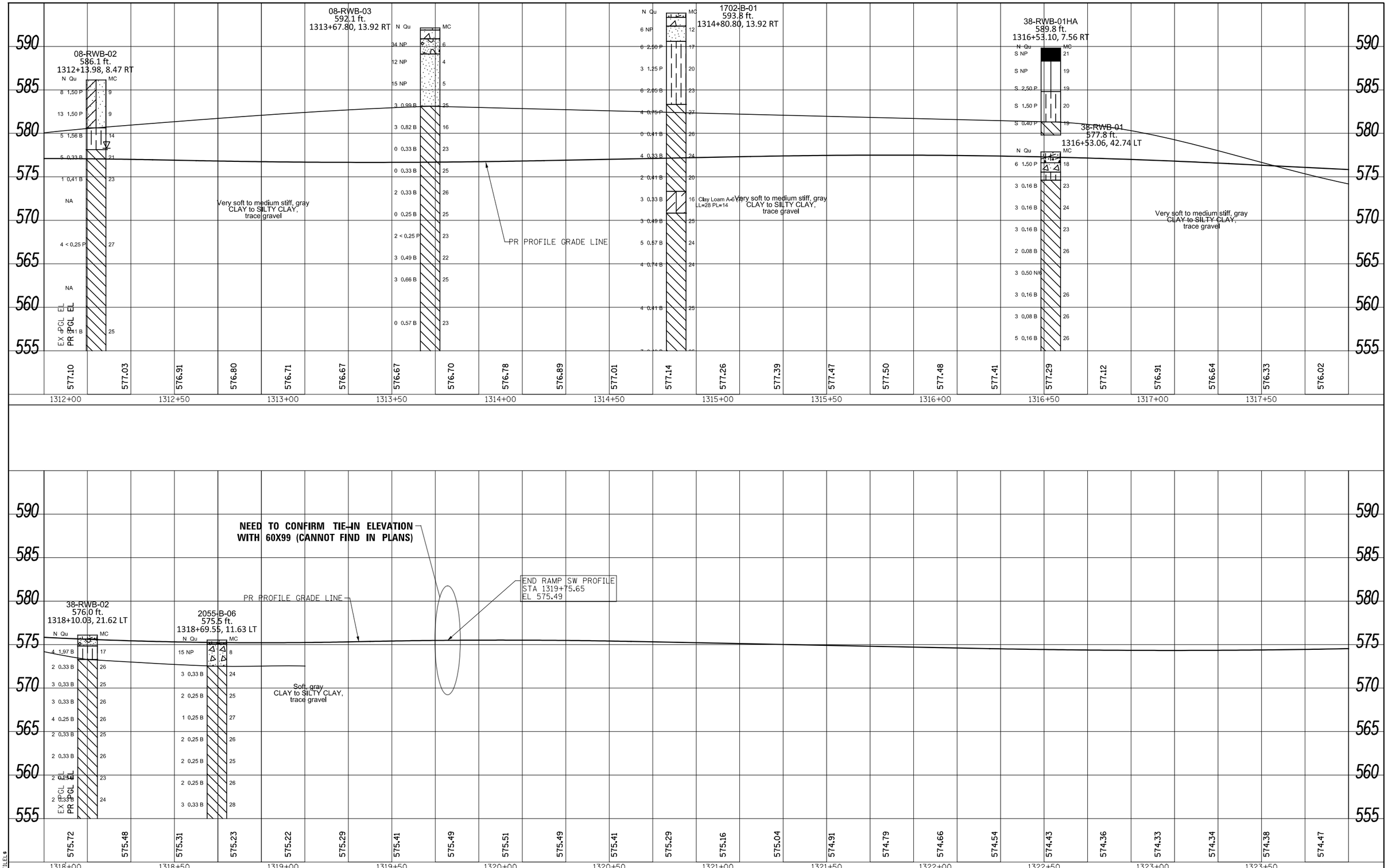
$FILES$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
RAMP SW

SCALE: 1"=20' | SHEET 6 OF $PRFSHEETS | STA. 1300+00.00 TO STA. 1311+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF06
		CONTRACT NO. 62A77		
		ILLINOIS	FED. AID PROJECT	



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

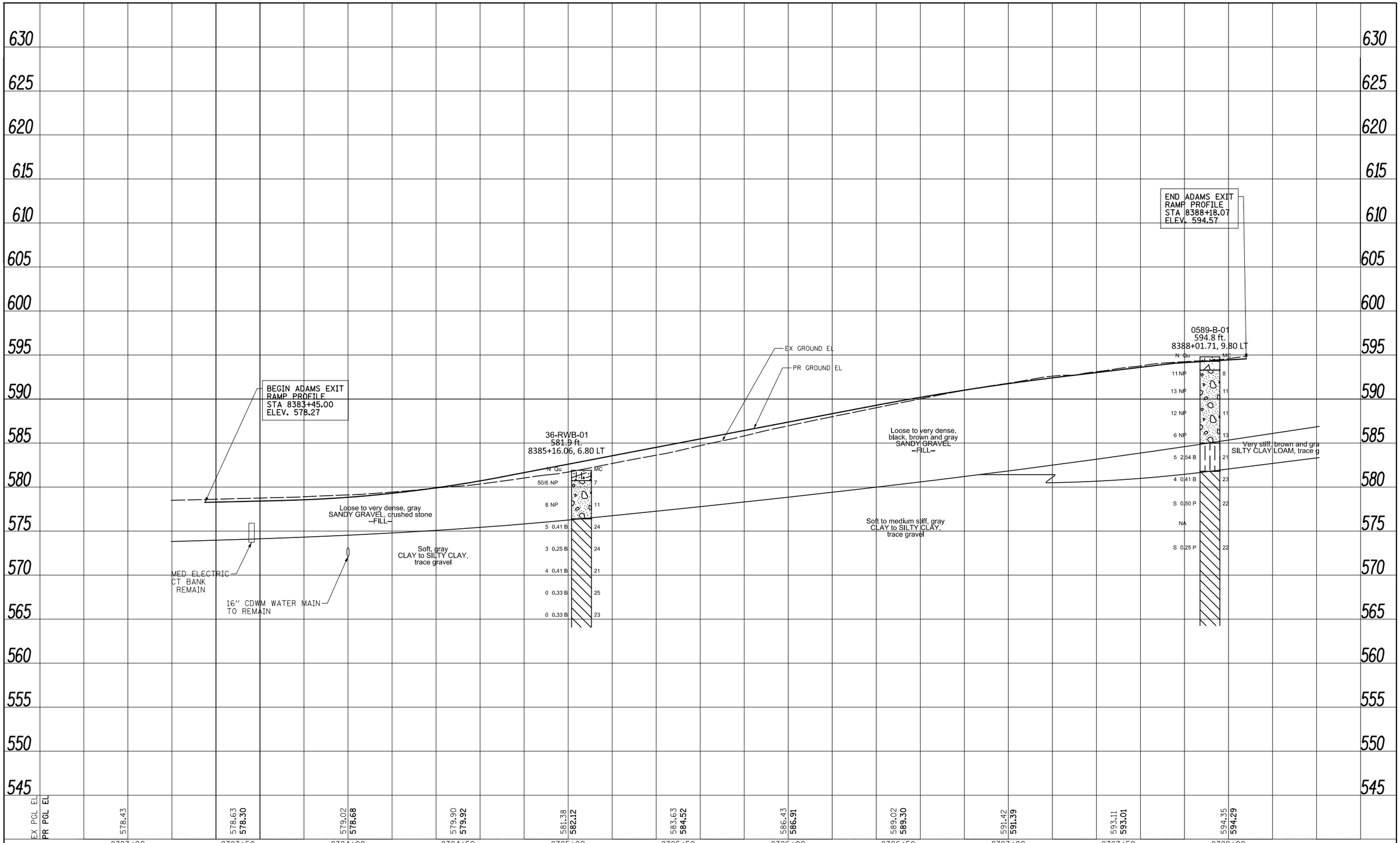
$FILES$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MJE	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
RAMP SW

SCALE: 1"=20' | SHEET 7 OF $PRFSHEETS | STA. 1311+90.00 TO STA. 1323+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF07
		CONTRACT NO. 62A77		
	ILLINOIS FED. AID PROJECT			



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 ____
B.M. NOTED ____
STRUCTURE NOTAT'NS CH'KD ____
BY ____ DATE ____

FILE PATH = $FILEL$

TranSystems

$FILES$	DESIGNED - $PLN-05-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-05-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-05-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
ADAMS EXIT RAMP

SCALE: HORIZ: 1"=20' VERT: 1"=5' | SHEET $$PLN-18 OF $PLN-TOT SHEETS | STA.8383+82 TO STA.8389+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-18

CONTRACT NO. 60X94

ILLINOIS FED. AID PROJECT

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
SLM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

630 625 620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545

BEGIN JACKSON EXIT RAMP PROFILE
STA 8281+91.96
ELEV. 576.39

END JACKSON EXIT RAMP PROFILE
STA 8287+01.27
ELEV. 595.91

EX GROUND EL

PR GROUND EL

0589-B-01
594.8 ft.
8282+84.63, 140.54 LT

N	Qu		MC
11	NP		8
13	NP		11
12	NP		11
6	NP		13
5	2.54	B	21
4	0.41	B	23
S	0.50	P	22
	NA		
S	0.25	P	22
	NA		
S	0.25	P	24
	NA		
S	< 0.25	P	24
	NA		

Loose to medium dense, brown and black GRAVELLY SAND --FILL--

Very stiff SILTY CLAY LOAM

Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel

Loose to medium dense, black and brown GRAVELLY SAND to LOAM, some gravel --FILL--

Very soft to soft, gray CLAY to SILTY CLAY, trace gravel

08-RWB-02
586.1 ft.
8284+52.34, 23.84 RT

N	Qu		MC
8	1.50	P	9
13	1.50	P	9
5	1.56	B	14
5	0.33	B	21
1	0.41	B	23
	NA		
4	< 0.25	P	27
	NA		
0	0.41	B	25
	NA		
6	1.64	B	24

Gravelly Silty Clay Loam
LL=32 PL=17
%Gravel=15.2
%Sand=9.0
%Silt=51.4
%Clay=24.3
A-6 (10)

COMED ELECTRIC DUCT BANK TO BE RELOCATED

Stiff SILTY CLAY LOAM --FILL--

Loose to dense, black and brown LOAM to SAND, trace gravel --FILL--

Very soft to medium stiff, gray CLAY to SILT CLAY, trace gravel

EX FREIGHT TUNNEL TOP EL 556.18'

BOT EL 546.68'

08-RWB-03
592.1 ft.
8286+05.39, 31.68

N	Qu		MC
34	NP		6
12	NP		4
15	NP		5
3	0.99	B	25
3	0.82	B	16
0	0.33	B	23
0	0.33	B	25
2	0.33	B	26
0	0.25	B	25
2	< 0.25	P	23
3	0.49	B	22
3	0.66	B	25
0	0.57	B	23
2	0.41	B	25
4	0.66	B	25

Medium dense to dense, brown, fine to medium SAND to SANDY GRAVEL --FILL--

Very soft to medium stiff, gray CLAY to SILT CLAY, trace gravel

	EX PGL EL	PR PGL EL
8281+50	580.13	
8282+00	583.10	576.34
8282+50	595.38	576.06
8283+00	586.15	576.68
8283+50	588.64	578.49
8284+00	588.92	581.33
8284+50	594.39	584.33
8285+00	594.12	587.33
8285+50	594.07	590.32
8286+00	594.02	593.18
8286+50	593.96	594.91
8287+00	594.02	595.89

FILE PATH = $FILE$

Tran Systems

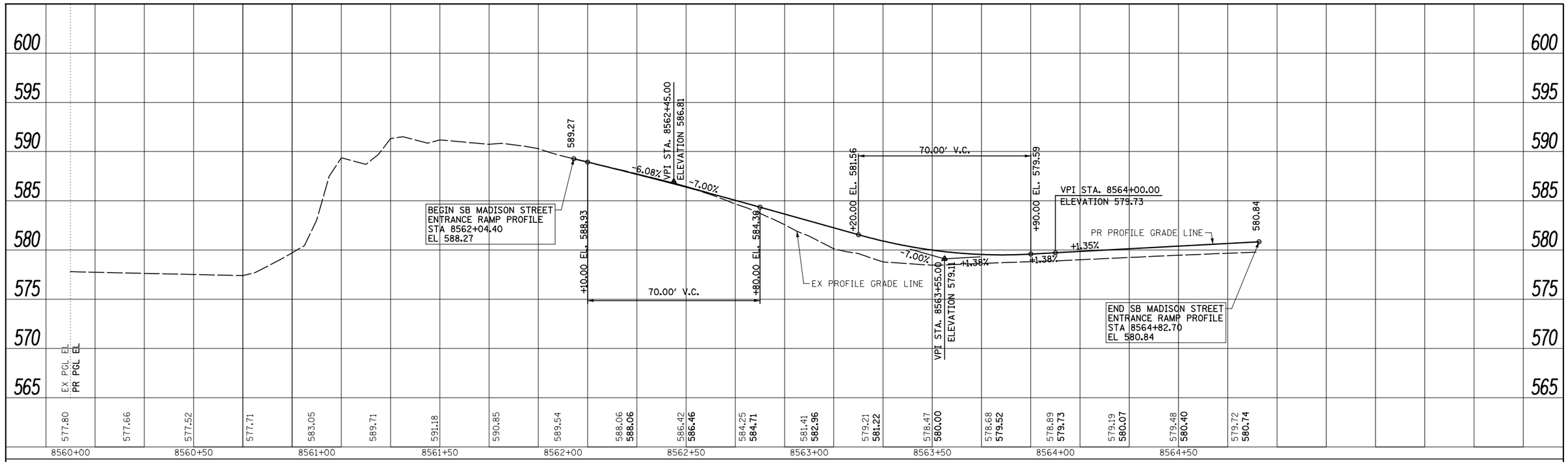
$FILES$	DESIGNED - $PLN-04-DE	REVISED -
USER NAME = $USER$	DRAWN - $PLN-04-DR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - $PLN-04-CH	REVISED -
PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
JACKSON EXIT RAMP

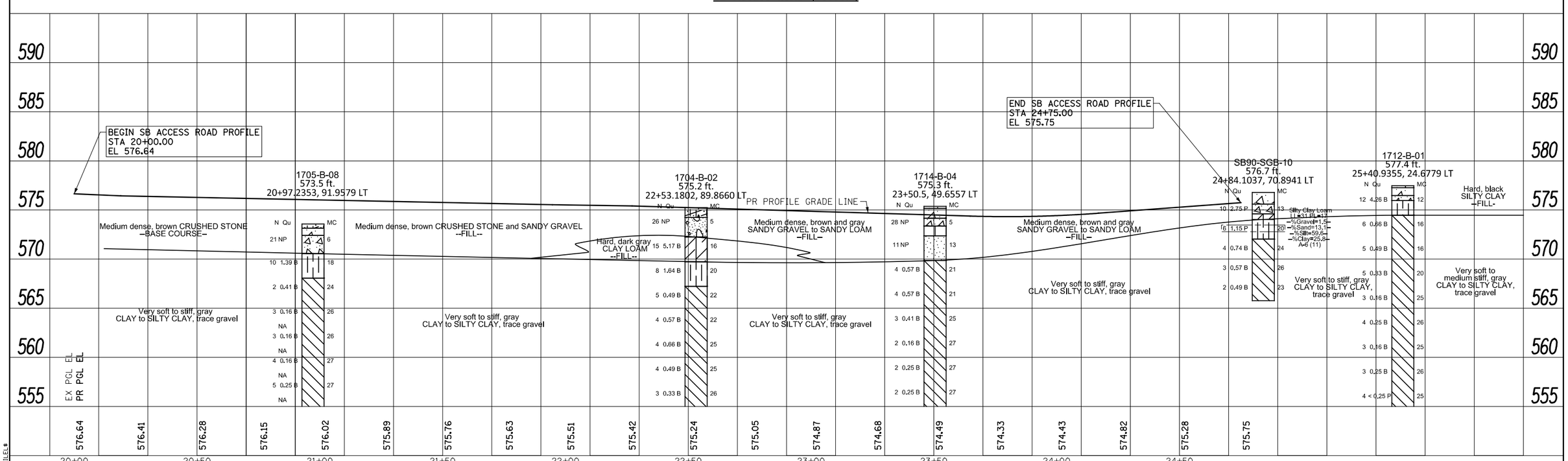
SCALE: HORIZ: 1"=20' VERT: 1"=5' | SHEET $$PLN-20 OF $PLN-TOT SHEETS | STA.8281+50 TO STA.8287+10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$TOT	$PLN-20
		CONTRACT NO. 60X94		
		ILLINOIS FED. AID PROJECT		



SB MADISON STREET ENTRANCE RAMP (TOP)

SB ACCESS ROAD (BOTTOM)



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303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

$FILE$	DESIGNED - SDH	REVISED -
USER NAME = $USER$	DRAWN - OPS	REVISED -
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PLOT DATE = $DATE$	DATE - $DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB MADISON ENTRANCE RAMP AND SB ACCESS RD

SCALE: 1"=20' | SHEET 10 OF $PRFSHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	$TOTAL	$PRF10
		CONTRACT NO. 62A77		
		ILLINOIS FED. AID PROJECT		