GEOTECHNICAL ENGINEERING REPORT

INTERSTATE HIGHWAY 43 WEST SILVER SPRING DR TO COUNTY HIGHWAY Q MILWAUKEE COUNTY, WISCONSIN PROJECT ID: 1229-04-01

Prepared by

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INTERSTATE HIGHWAY 43 WEST SILVER SPRING DR TO COUNTY HIGHWAY Q WAUKESHA COUNTY, WISCONSIN PROJECT ID: 1229-04-01

EXECUTIVE SUMMARY

- Select materials in subgrades are recommended to be incorporated into the project.
- The following soil parameters are recommended to be used for pavement design

Design Group Index: 12

Frost Index: F-3

Soil Support Value: 4.3

Modulus of Subgrade Reaction: 150 pounds per cubic inch

INTRODUCTION

A Geotechnical Engineering Analysis has been performed for the proposed project to provide design parameters. Pavement design parameters were provided in accordance with WisDOT *Geotechnical Bulletin No. 1*. Recommendations regarding construction issues are also addressed in this report. We should be contacted if the scope of the project changes to see if revisions to the recommendations contained herein are needed.

A supplemental report will also be prepared, at a later date, which will include an evaluation of areas that will need to be widened to accommodate the new construction.

SITE AND PROJECT DESCRIPTION

It is understood that the proposed project is to consist of the reconstruction of Interstate Highway (I) 43 from West Silver Spring Drive to County Highway Q in Milwaukee County, Wisconsin.

Presently I-43 consists of a 4 lane divided highway with urban and rural cross sections. According to the project plans, dated February 2013, the travel lanes are 12 feet wide. Paved shoulders adjacent to the lanes vary from 0 to 10 feet wide. The pavement section consists of hot mix asphalt (HMA) over Portland Cement Concrete (PCC) over a crushed aggregate base course. The existing pavement is generally in fair condition.

SUBSURFACE CONDITIONS

A total of XXX test borings were drilled in July and September of 2014 as part of this exploration and analysis. The test borings were drilled with conventional truck mounted drilling equipment. An all terrain drill rig was used to drill test borings that were off of the existing roadway in difficult to reach locations. Soil samples were collected from each test boring and were returned to the Wisconsin Department of Transportation (WisDOT) Southeast Region Soils Unit laboratory for classification purposes. The test borings were generally drilled to depths of 5 to 25 feet below the existing ground surface.

A boring location plan is also included in Appendix A. The test boring logs are included in Appendix B.

Subsoil Conditions

The United Sates Department of Agriculture, Soil Conservation Service, *Soil Survey of Milwaukee and Waukesha Counties, Wisconsin*, dated July 1971 was reviewed. The United States Geologic Survey *Topographic Map* of the region was also reviewed.

The natural topographical features in the vicinity of the project were generally shaped during the last ice age by the advancing and retreating of the Lake Michigan Lobe of the Laurentide Ice Sheet.

A number of drumlins exist along the project. Drumlins are generally oval shaped hills. The long axis of the drumlin indicates the direction of movement of the glacier. The orientation of the drumlins along the project indicates that the glacier moved from the northeast to the southwest, almost parallel to I-43 through much of Waukesha County.

Drumlins likely formed in one of two ways. They were either carved out of the preexisting landscape or they consist of material deposited during the movement of the glacier.

The soil deposited by the glacier generally consists of sandy glacial till of the New Berlin member of the Holy Hill formation.

The drainage patterns in the area are the result of the landscape carved by the glaciers. The near surface soils developed over time after the glaciers had fully retreated from the area. Wind blown soils and glacial deposits combined to form the near surface soils that

are present. Near surface soils along existing streams and rivers generally consist of postglacial alluvial soil deposits. The organic soil deposits present are also post glacial deposits and generally occur in former glacial lake beds and depressions formed where soil deposits collapsed after blocks of ice melted.

According to the *Soil Survey* the predominant soil types present at the project location predominantly consist of Kewaunee and Manawa soils. It is apparent that grading activities have taken place in the vicinity of the roadway and the actual soil types present may be greatly different than those listed in the *Soil Survey*.

The *Kewaunee soils* are well drained or moderately well drained soils that consist of a thin layer of silt loam over a clay loam subsoil that is underlain by calcareous silty clay till. These soils are on glacial ground moraines east of the Milwaukee River in the northern part of Milwaukee County. They occupy areas of irregular shape on convex side slopes.

In a typical profile, the surface layer is silt loam and is about 8 inches thick. The subsurface layer is silt loam that is about 2 inches thick. The subsoil is about 14 inches thick. The upper part of the subsoil is clay. The lower part is silty clay. The substratum is silty clay glacial till that is strongly calcareous.

The Kewaunee soils are slowly permeable and have high available water capacity. In some places ground water is less than 5 feet below the surface in wet periods. The Kewaunee soils are considered an unsuitable source of sand and gravel. They have moderate to very severe limitations for roadway construction and as a subgrade material.

The *Manawa soils* consist of somewhat poorly drained, silty soils that have a silty clay subsoil over calcareous silty clay glacial till. These soils occupy the concave side slopes of drainage ways and slight depressions. They lie east of the Milwaukee River in the northern part of Milwaukee County.

In a typical profile, the surface layer is silt loam about 9 inches thick. The subsurface layer is mottled silty clay loam about 3 inches thick. The subsoil is about 18 inches thick. The upper part of the subsoil is mottled silty clay. The lower part is strongly calcareous, mottled silty clay. The substratum is strongly calcareous, mottled silty clay glacial till containing a few pebbles and a few segregations of soft lime.

The Manawa soils are slowly permeable and have high available water capacity. Ground water is less than 3 feet below the surface in wet periods. Manawa soils are considered an unsuitable source for sand and gravel. They have severe to very severe limitations for roadway construction and as a subgrade material.

According to the *Soil Survey* Loamy land and clayey land soils are also present along the proposed project but to a lesser extent.

<u>Test Borings</u>

The following paragraphs are a brief description of the soil conditions encountered in the test borings. A more detailed description of the soil conditions can be found on the test boring logs found in Appendix B.

The test borings have been separated into the following sections: B-xx indicate borings performed within the existing IH-43 pavement and shoulders, SR-xx indicate borings performed along the side road alignments and MP-xx indicate borings performed within the delineated wetlands along the corridor.

The following test borings were drilled in the existing pavement along I-43. The pavement thickness at the test boring locations is shown in the following table:

Pavement Thickness ¹								
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)		
B1	I-43 NB	1090+00	30' Rt	6	2	4		
B2	I-43 SB	1098+00	30' Lt	7	7	4		
В3	I-43 NB	1099+00	30' Rt	6.5	6	10		
B4	I-43 NB	1099+00	49' Rt	3	6.5	4		
B5	I-43 SB	1102+77	30' Lt	5	6.5	5		
В6	I-43 NB	1104+00	30' Rt	5	7	6		
B8	I-43 SB	1106+00	30' Lt	4	8	5		
В9	I-43 NB	1108+00	30' Rt	4	8	6		
B12	I-43 NB	1114+00	30' Rt	5	10	7		
B14	I-43 SB	1125+00	30' Lt	7	8	6		
B17	I-43 NB	1138+00	50' Rt	5	6.5	6.5		
B18	I-43 NB	1140+00	30' Rt	5.5	8	4.5		
B19	I-43 SB	1140+00	40' Lt	5.5	8	6		
B21	I-43 SB	1150+00	40' Lt	5.5	8	7		
B22	I-43 NB	1158+00	40' Rt	5.5	11	6		
B24	I-43 NB	1165+00	60' Rt	5.5	0	13		
1 - Pavemen	nt thickness w	as determined	d in the field	during drillin	ıg.			

The following test borings were drilled in unpaved areas along IH-43. The topsoil thickness at the test boring locations is shown in the following table:

Topsoil Thickness ¹							
Test Boring No.			Topsoil (inches)				
· ·	7 10 175	1100 05	1515	(inches)			
B7	I-43 NB	1103+95	45' Rt	2			
B10	I-43 NB	1108+00	45' Rt	3			
B13	I-43 NB	1114+00	60' Rt	3			
B15	I-43 NB	1127+95	55' Rt	7			
B20	I-43 NB	1148+00	40' Rt	6			

B23	I-43 SB	1160+00	40' Lt	1		
B25	I-43 SB	1165+00	40' Lt	2		
B27	I-43 NB	1266+00	70' Rt	5		
1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.						

Fill was encountered in Test Boring Nos. B-1, 7, 8, 9, 10, 12 and 14 to depths of approximately 3 to 8.5 feet below grade. The fill generally consisted of silty clay, fine to coarse sand, silty sand. The possible fill soil sample obtained from Boring B-12 also had a slight petroleum odor to a depth of 4 feet below the existing ground surface.

The underlying apparent natural soils generally consisted of silty clay soils to a depth of at least 25 feet below grade, the maximum depth explored.

The following test borings were drilled in the existing pavement along the side roads associated with the project. The pavement and topsoil thickness at the test boring locations are shown in the following tables:

Port Washington Rd.

Pavement Thickness ¹								
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)		
SR1	Port	108+59	29' Lt	3.5	7	4		
SR2	Port	113+00	20' Lt	4.5	6.5	3		
SR3	Port	118+09	54' Lt	3	7	4		
SR4	Port	122+05	12' Rt	6	6	6		
1 - Paveme	nt thickness w	as determined	d in the field	during drillin	ıg.			

Topsoil Thickness ¹						
Test Location STA Offset Topsoil						
Boring No.	Boring No. (inches)					
SR5	Port	128+00	15' Rt	6		
SR6	Port	132+95	10' Rt	5		
1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.						

Topsoil Thickness ¹						
Test Location STA Offset Topsoil						
Boring No.				(inches)		
SR42	PWN Ali	323+50	30' Rt	3		
SR45	PWS Ali	327+00	20' Lt	3		
1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.						

Fill and possible fill was encountered in Test Boring Nos. SR- 2, 3, 4, 42 and 45 to depths of approximately 3.5 to 8.0 feet below grade. The fill generally consisted of silty clay with varying amounts of sand and gravel. Test borings SR- 2 and 45 did not extend

through the fill and possible fill soils. The underlying apparent natural soils in test borings SR- 3, 4 and 45 generally consisted of silty clay to a depth of at least 10 feet below grade, the maximum depth explored.

Jean Nicolet Road

	Pavement Thickness ¹								
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)			
	Jean								
SR7	Nicolet	14+00	0	4	7.5	5.5			
	Jean								
SR8	Nicolet	18+98	4' Rt	7	4	5			
	Jean								
SR9	Nicolet	40+00	5' Lt	3.5	7.5	5			
	Jean								
SR10	Nicolet	50+04	3' Rt	5.5	5	0			
	Jean								
SR11	Nicolet	54+50	4' Lt	5	7	6			
1 - Pavemen	nt thickness w	as determined	d in the field	during drillin	g.				

Topsoil Thickness ¹						
Test Boring No.						
	Jean			(= 10)		
SR12	Nicolet	59+00	3' Lt	2		
	Jean					
SR13	Nicolet	63+40	0	4		
1 – Topsoil	1 - Topsoil thickness determined at the time of drilling by observation of open boreholes.					

Fill and possible fill was encountered in Test Boring Nos. SR- 7, 8, 9, 11, 12 and 13 to depths of approximately 3.5 to 5.5 feet below grade. The fill generally consisted of sand, sandy clay and silty clay with varying amounts of sand and gravel. Test borings SR- 7 and 8 did not extend through the fill and possible fill soils. The underlying apparent natural soils in test borings SR- 9, 10, 11, 12 and 13 generally consisted of silty clay to a depth of at least 15 feet below grade, the maximum depth explored.

Good Hope Road

Pavement Thickness ¹						
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)

SR16	GHW Ali	30+90	40' Lt	6	0	12		
1 – Paveme	1 – Pavement thickness was determined in the field during drilling.							

Topsoil Thickness ¹							
Test	Location	Location STA Offset Topsoil					
Boring No.				(inches)			
SR14	GHE Ali	21+93	35' Rt	3			
SR15	GHE Ali	31+09	30' Rt	4			
SR17	GHA Ali	1146+50	40' Rt	2			
SR18	GHA Ali	1149+00	15' Rt	1			
SR20	GHB Ali	1144+40	50' Rt	1			
SR21	GHC Ali	1142+00	5' Lt	1			
SR22	GHD Ali	1199+97	4' Rt	3			
SR23	GHD Ali	1154+00	53' Rt	3			
MP152	GHC Ali	1140+60	0	3			
MP153	GHD Ali	1156+00	17' Rt	4			
1 – Topsoil	thickness dete	rmined at the	time of drilli	ing by observation of open boreholes.			

Fill and possible fill was encountered in Test Boring Nos. SR- 14, 15, 17, 18, 20, 21 and 22 to depths of approximately 3.0 to 10.0 feet below grade. The fill generally consisted of sand and silty clay with varying amounts of sand and gravel. Test boring SR- 15 did not extend through the fill and possible fill soils. The underlying apparent natural soils in the remainder of the test borings generally consisted of silty clay to a depth of at least 15 feet below grade, the maximum depth explored.

Brown Deer Road

Pavement Thickness ¹										
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)				
MP156	BDD Ali	1273+00	0	0	0	5				
1 – Pavement thickness was determined in the field during drilling.										

	Topsoil Thickness ¹											
Test Boring No.	Location	STA	Offset	Topsoil (inches)								
SR24	BDE Ali	612+00	55' Rt	7								
SR25	BDA Ali	1252+00	75' Lt	4								
SR26	BDA Ali	1254+00	0	2								
SR 27	BDA Ali	1259+02	4' Rt	7								
SR28	BDA Ali	1264+00	0	4								
SR29	BDA Ali	1269+00	0	2								
SR30	BDB Ali	1245+07	7' Rt	6								
SR31	BDB Ali	1247+00	0	1								
SR32	BDB Ali	1250+00	0	3								

SR33	BDB Ali	1250+40	100' Rt	4
SR34	BDC Ali	1245+00	0	2
SR35	BDC Ali	1250+00	0	3
SR36	BDC Ali	1250+97	72' Lt	4
SR37	BDC Ali	1251+57	0	6
SR38	BDD Ali	1254+04	56' Lt	5
SR39	BDD Ali	1256+00	0	5
SR40	BDD Ali	1259+00	67' Lt	3
SR41	BDD Ali	1265+00	0	2
MP154	BDB Ali	1269+75	0	2
MP155	BDB Ali	1271+00	20' Lt	6
1 – Topsoil	thickness dete	rmined at the	time of drilli	ing by observation of open boreholes.

Fill was encountered in Test Boring Nos. SR- 25, 26, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, and 40 to depths of approximately 3 to 20 feet below grade. The fill generally consisted of silty clay with varying amounts of sand gravel and organics. The fill soil samples obtained from Borings SR- 25, 32, 33, 34 and 37 also had pieces of foundry slag materials present within the recovered samples. Test boring SR- 25 did not extend through the fill soils. The underlying apparent natural soils in the remainder of the test borings generally consisted of silty clay to a depth of at least 22 feet below grade, the

County Line Road

maximum depth explored.

	Pavement Thickness ¹											
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)						
SR49	CN Ali	25+21	10' Lt	3	0	15						
SR50	CN Ali	CN Ali	CN Ali	CN Ali	CN Ali	CN Ali	CN Ali	32+00	10' Rt	4.5	0	19.5
SR51	SR51 CN Ali		14' Lt	3	0 13							
1 – Paveme	nt thickness w	as determined	d in the field	during drillin	ıg.							

	Topsoil Thickness ¹											
Test Boring No.	Location	STA	Offset	Topsoil (inches)								
SR48	CN Ali	22+00	5									
SR58	CNC Ali	1305+00	13' Rt	3								
MP157	CNC Ali	1307+95	24' Lt	4								
1 – Topsoil	thickness dete	rmined at the	time of drilli	ing by observation of open boreholes.								

1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.

Fill was encountered in Test Boring Nos. SR- 49, 50, 51 and 58 and MP-157 to depths of approximately 3 to 8 feet below grade. The fill generally consisted of medium to coarse sand, clayey sand and silty clay with varying amounts of sand gravel and organics. Test borings SR- 49 and 50 did not extend through the fill soils. The underlying apparent

natural soils in the remainder of the test borings generally consisted of silty clay to a depth of at least 15 feet below grade, the maximum depth explored.

The following marsh probes were performed within along the IH-43 corridor.

		Top	soil Thickne	ss ¹	
Test	Location	STA	Offset	Topsoil	Approximate EBS depth
Boring No.				(inches)	(ft)
MP1	I-43 NB	1186+00	65' Rt	4	8
MP2	I-43 NB	1187+00	75' Rt	1	8
MP3	I-43 NB	1188+00	65' Rt	1	3
MP4	I-43 SB	1250+00	65' Lt	2	8
MP5	I-43 SB	1250+65	75' Lt	4	8
MP6	I-43 SB	1250+75	115' Lt	4	3
MP7	I-43 NB	1253+00	80' Rt	6	0
MP8	I-43 NB	1253+70	75' Rt	2	3
MP9	I-43 SB	1253+75	90' Lt	3	3
MP10	I-43 NB	1254+40	80' Rt	4	0
MP11	I-43 SB	1254+50	150' Lt	4	0
MP12	I-43 SB	1255+50	160' Lt	3	3
MP13	I-43 SB	1274+00	65' Lt	2	3
MP14	I-43 SB	1276+00	65' Lt	7	3
MP15	I-43 SB	1278+00	65' Lt	8	2
1 – Topsoil	thickness dete	rmined at the	time of drilli	ing by observ	ation of open boreholes.

Significant depths of highly organic marsh soils were not encountered within the marsh probes. However, soft, somewhat saturated upper zone soils were encountered in test boring Nos. MP- 2, 3, 4, 5, 6, 8, 9, 12, 13, 14 and 15. Additionally, fill and possible fill soils were encountered in test boring No. MP-1 to a depth of 8 feet below grade. The underlying apparent natural soils the test borings generally consisted of silty clay to a depth of at least 15 feet below grade, the maximum depth explored.

Groundwater Conditions

	Depth of Water Encountered During Drilling ¹											
Test Boring	Location	STA	Offset	During Drilling								
No.				(feet)								
MP1	I-43 NB	1186+00	65' Rt	11								
MP2	I-43 NB	1187+00	75' Rt	6								
MP4	I-43 SB	1250+00	65' Lt	10								
MP11	I-43 SB	1254+50	150' Lt	7								
MP12	I-43 SB	1255+50	160' Lt	6								
MP152	I-43 SB	1140+60	0	9								
	1 - Depth to	water determine	ed in the field d	uring drilling.								

Water was not encountered during drilling in any test borings not listed above. In general the groundwater depth is estimated at greater than 5 feet below the natural grade where these soil types exist. However, According to the *Soil Survey* some of the soil types encountered are associated with shallow groundwater. The following table presents the locations where shallow groundwater relative to the natural ground surface exists.

Location of Soils with Associated Shallow Groundwater ¹
STA 1302+00 to STA 1311+00
STA 1290+00 to STA 1294+00
STA 1238+00 to STA 1243+00
STA 1226+00 to STA 1229+00
STA 1175+00 to STA 1183+00
STA 1139+50 to STA 1144+00
1 –Manawa soils.

The estimated groundwater table depth is considered a preliminary estimate and is based on the regional geology and site features. A more accurate estimate of the groundwater table would require the installation of groundwater observation wells along with observing the wells over an extended period of time.

CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations presented in this report are based on the subsoil conditions encountered during the subsurface exploration and the information provided on the submitted project plans. The Southeast Region Soils Unit should be provided with revised plans as soon as possible to determine if alterations to the recommendations contained herein are needed.

Select Materials in Subgrades

According to Chapter 11-5-15 of the (WisDOT) Facilities Development Manual (FDM) the proposed project is located within the standard inclusion area for select materials in subgrades. The FDM requires that projects located in the standard inclusion area have select materials incorporated into the subgrade.

The subsoil conditions encountered in the test borings at the plan final subgrade ranged from somewhat uniform apparent natural clays to highly variable fill and possible fill soils. The onsite soils are considered to be moisture and disturbance sensitive and will likely become unstable when exposed to construction traffic when at an elevated moisture content. Elevated moisture contents were also encountered in some of the test borings.

It is expected that EBS will be needed throughout the majority of the new alignments and widened corridor portions of the project. The use of Select Materials in the aforementioned portions of the project will provide a more uniform subgrade for support of the pavement than if isolated areas of EBS were performed. It is likely that the amount of EBS needed would be substantial enough that it would be as effective to plan for incorporation of a select materials layer in these locations as to EBS numerous isolated areas.

Due to the somewhat varied subgrade soils within the existing embankment areas it is recommended to use select materials beneath the proposed pavement sections. Additionally within the new alignments and widened corridor portions of the project EBS can be expected due to varied fill possible fill and unstable upper apparent natural soils. Shallow ground water and perched water can be encountered during construction therefore, select materials would be necessary to build a stable platform prior to placement of additional embankment materials.

Several options for select materials are considered suitable for this project.

1. <u>Breaker Run Stone/Select Crushed Material</u>: A 16-inch thick layer of breaker run or select crushed material. The breaker run layer would be placed beneath the planned pavement and base course. The breaker run layer is recommended to extend laterally to the outside edge of pavement or 2 feet behind back of curb where applicable.

Breaker run generally consists of large stone, which is likely to contain a large amount of void space. Water will likely become trapped in the void space. Trapped water in the breaker run can cause softening of the underlying subgrade soils and allow for the breaker run containing large void space to settle into the soft soils resulting in an increase in pavement distress. Water trapped in the void space of the breaker run has the potential to freeze during the winter and heave the pavement structure supported above, resulting in increased pavement distress.

It is recommended that the layer of breaker run be drained to prevent the accumulation of water. Water within the breaker run layer is recommended to be removed through relief trenches that outfall to the outside ditches. Relief trenches should be spaced every 250 feet and at low points. In urban sections the breaker run can be drained by installing sections of draintile at low points in the profile and discharging them to suitable drainage structures.

2. <u>Pit Run Sand and Gravel</u>: Select materials can consist of placing 20 inches of pit run sand and gravel beneath the pavement and base course. The lateral extent for placement of pit run sand and gravel is the same as that for breaker run.

Similar to breaker run, pit run generally consists of large stone, which is likely to contain a large amount of void space that may trap water. The same provisions used to drain breaker run should be used for pit run.

3. Grade 1 or Grade 2 Granular Backfill: Select materials can consist of placing a 24-inch thick layer of Grade 1 Granular Backfill or a 30-inch thick layer of Grade 2 Granular Backfill beneath the planned pavement and base course. The granular backfill layer will need to extend laterally to outside edge of pavement or 2 feet behind back of curb where applicable. It is not considered necessary to drain the layer of Granular Backfill.

Select materials are not required to be placed on an unyielding subgrade. The use of select materials should reduce the amount of additional EBS that would be required for the project, since the select material layer will bridge/stabilize poorer support soils which would otherwise need to be removed.

It should be noted that some EBS and subgrade stabilization will be needed on this project in addition to the Select Materials layer due to the presence of poor soils. Recommendations regarding EBS and subgrade stabilization are addressed further in this report.

If during construction it is determined that the in-place soils are stable, then the Select Materials layer could be eliminated for stretches of the project. Decisions to remove the Select Materials layer should be made by the Project Engineer at the time of grading after a consultation with the Regional Geotechnical Engineer.

Stabilization/Excavation Below Subgrade

Select Materials in Subgrades is recommended to be incorporated into portions of the project. The use of Select Materials will result in a decrease in the amount of EBS that would typically be used on a project. Select Materials replace a portion of lower quality soils with high quality materials that are capable of bridging/stabilizing areas of poor soils that otherwise would need to be removed. It is not necessary to place the select materials on an unyielding subgrade.

However, it is likely that unforeseen amounts of EBS will be needed on this project. It is recommended to add an undistributed quantity of 5000 cubic yards of EBS to the project plans. It is also recommended to backfill EBS excavations with whatever material is chosen for select materials in subgrades.

PAVEMENT DESIGN PARAMETERS

The following soil parameters were previously provided and are recommended to be used in design of the pavement structure. The parameters provided are in accordance with the

WisDOT Pedological approach to Pavement Design outlined in the WisDOT $Geotechnical\ Bulletin\ No.\ I.$

Pavement Design Parameters									
Design Group Index	Frost Index	Soil Support Value	Modulus of Subgrade Reaction (pounds per cubic inch)						
12	F-3	4.3	150						

AASHTOWare	
Depth to Bedrock (if<20')	-
AASHTO Soil Classification	A-6
Resilient Modulus	12,286
Max Dry Density	115
Specific Gravity	2.65
Optimum Moisture Content	15
Grain Size Distribution:	
#4	97
#10	95
#40	90
#200	76
Atterberg Limits:	
LL	32
PL	18
PI	14

Appendix A

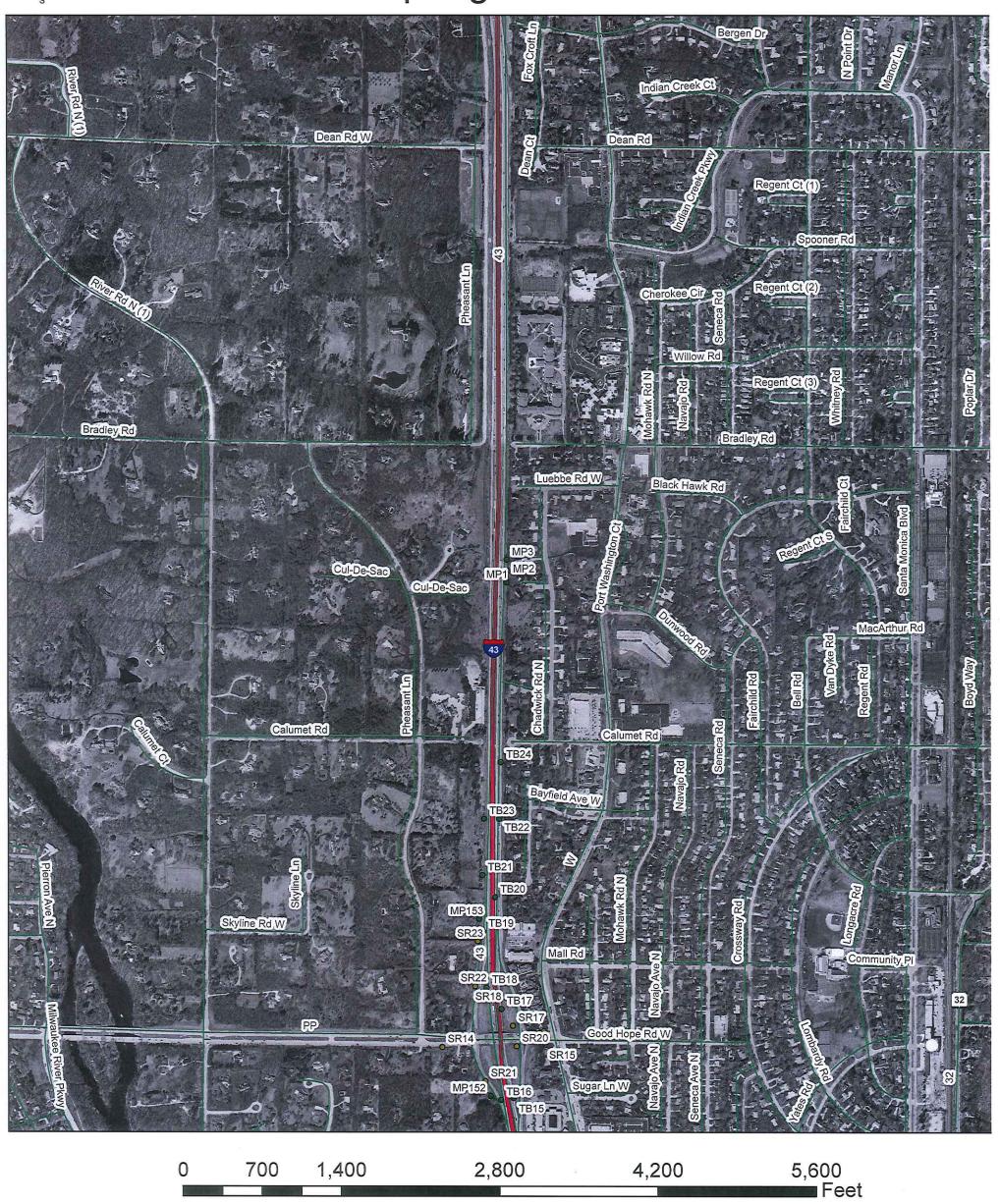
Test Boring Location Plan



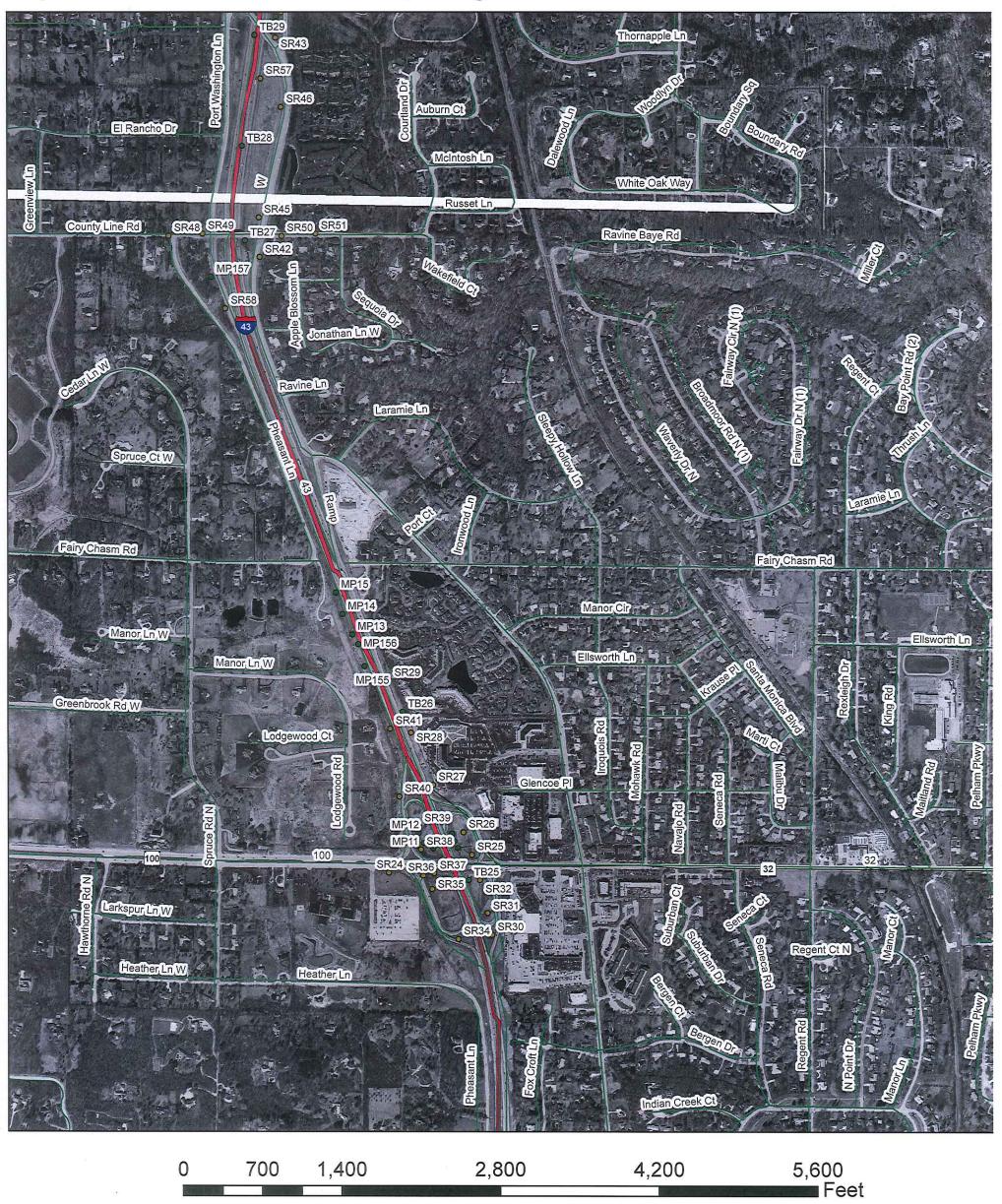
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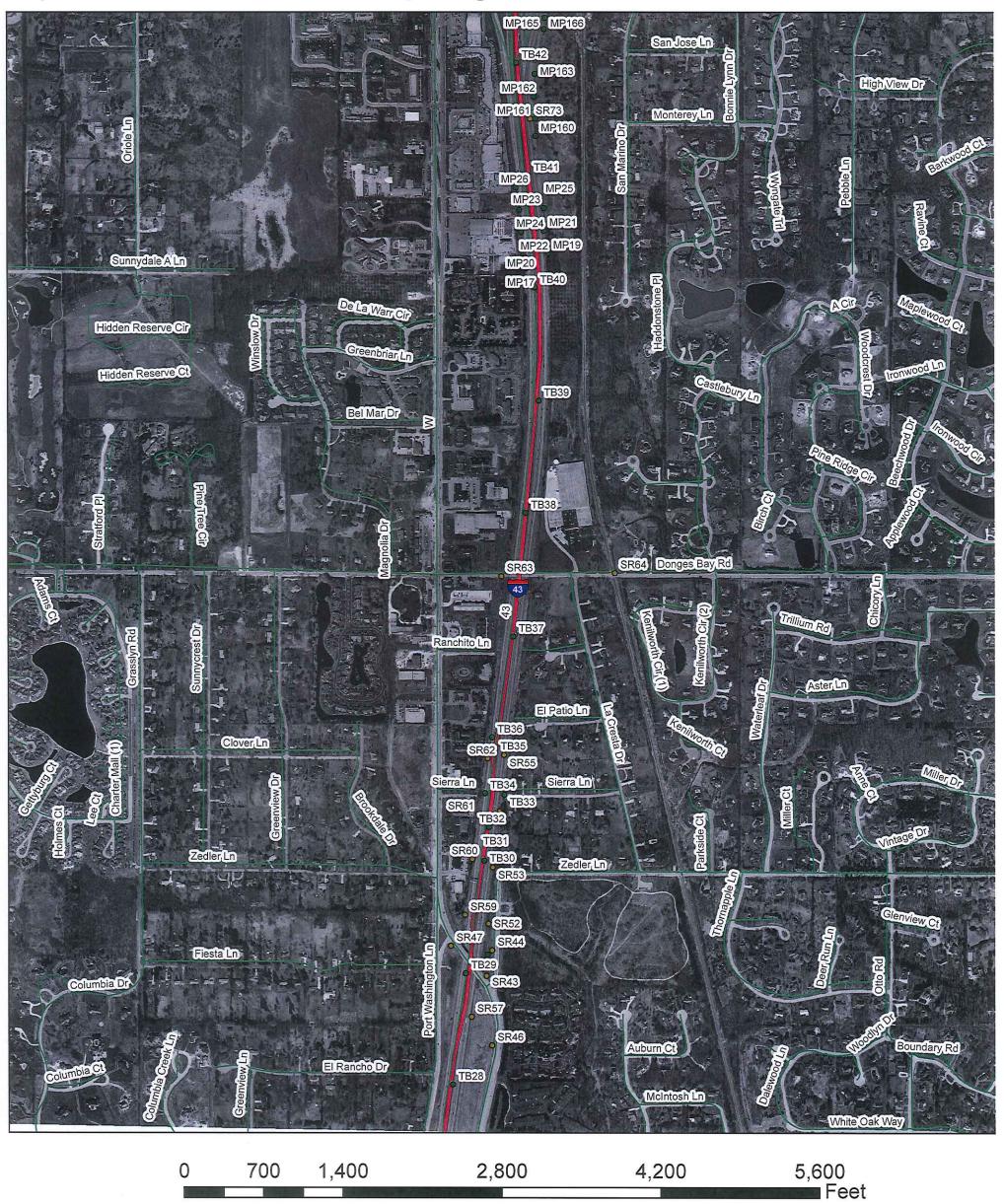




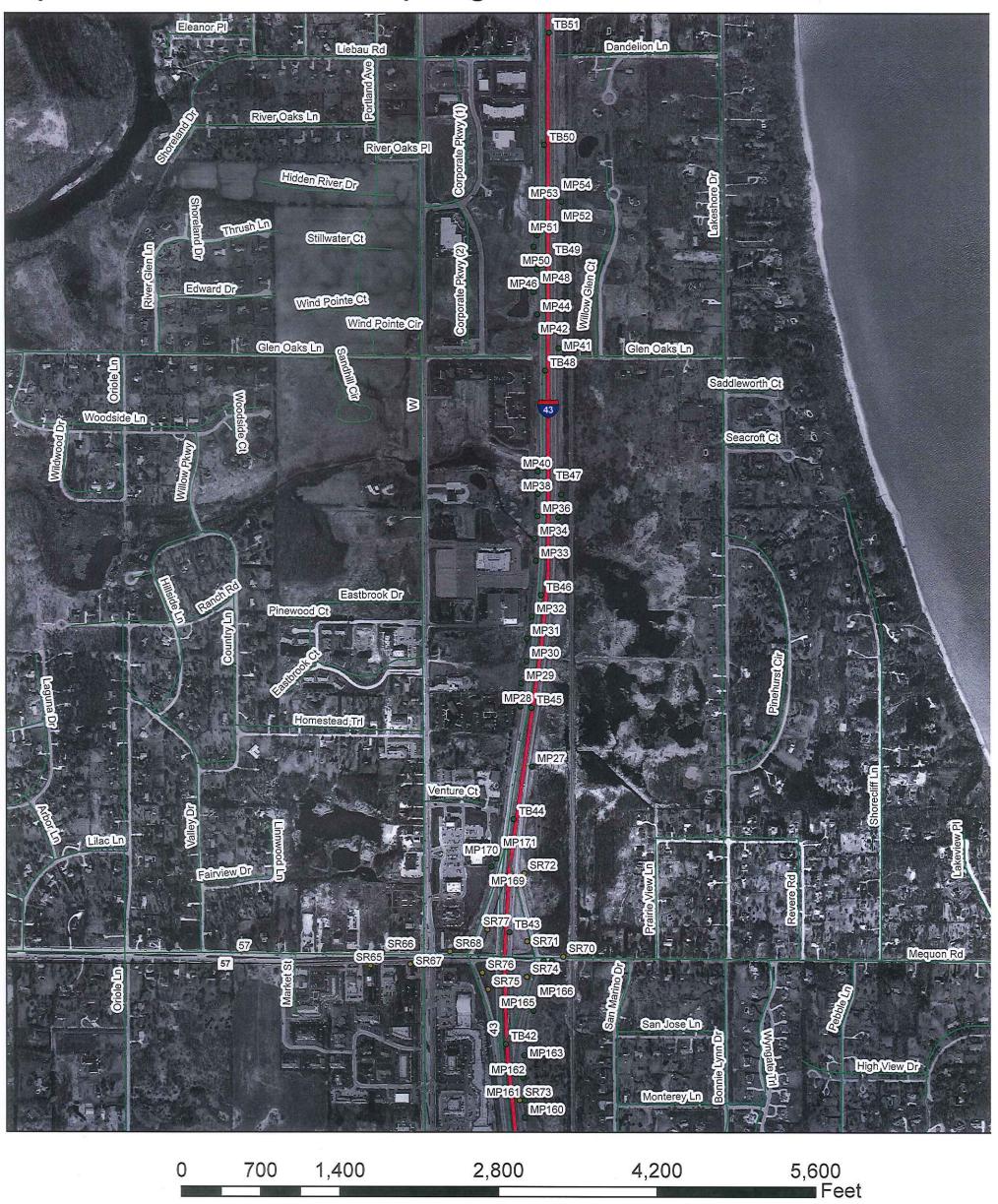
















2,800

4,200

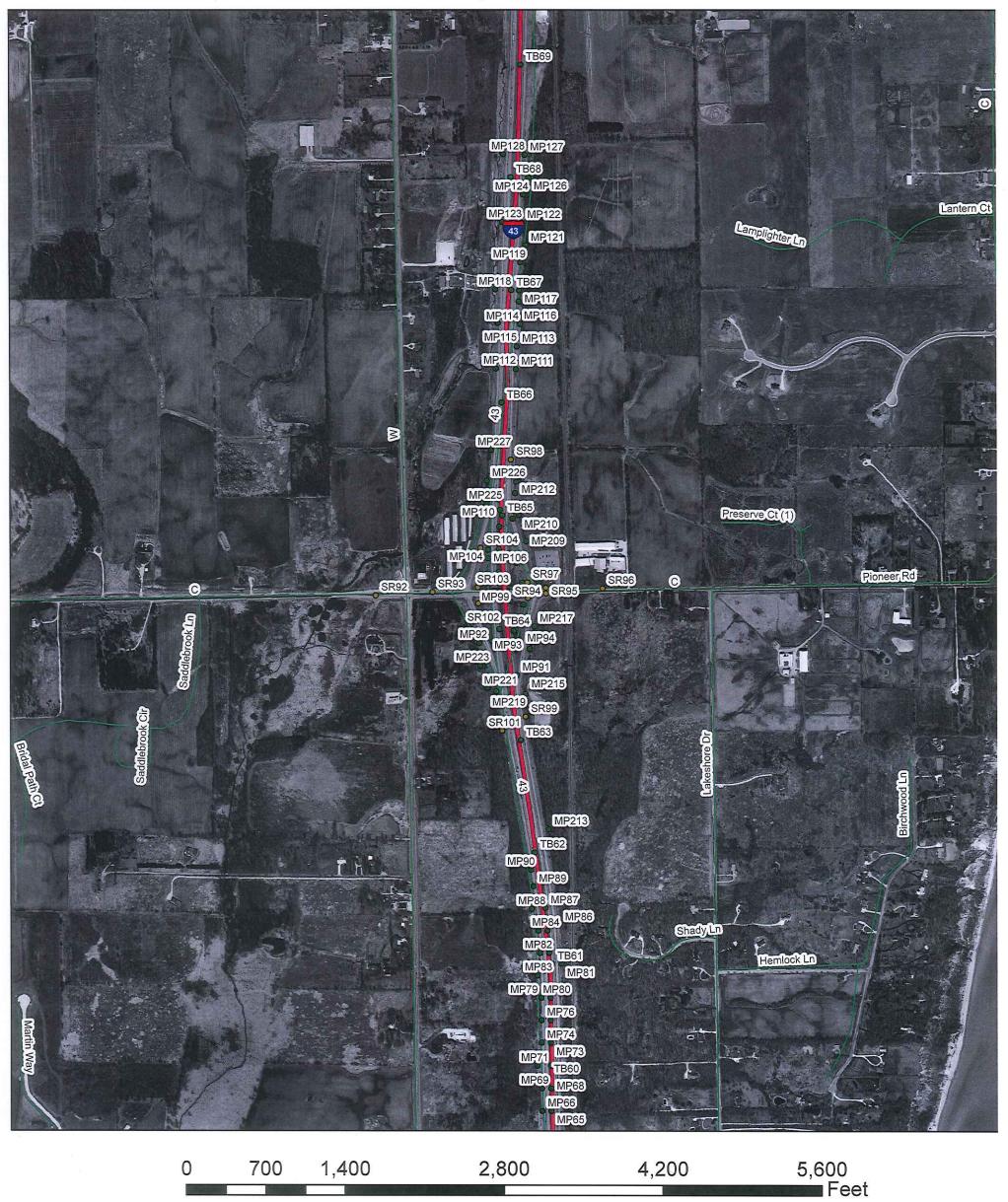
700

0

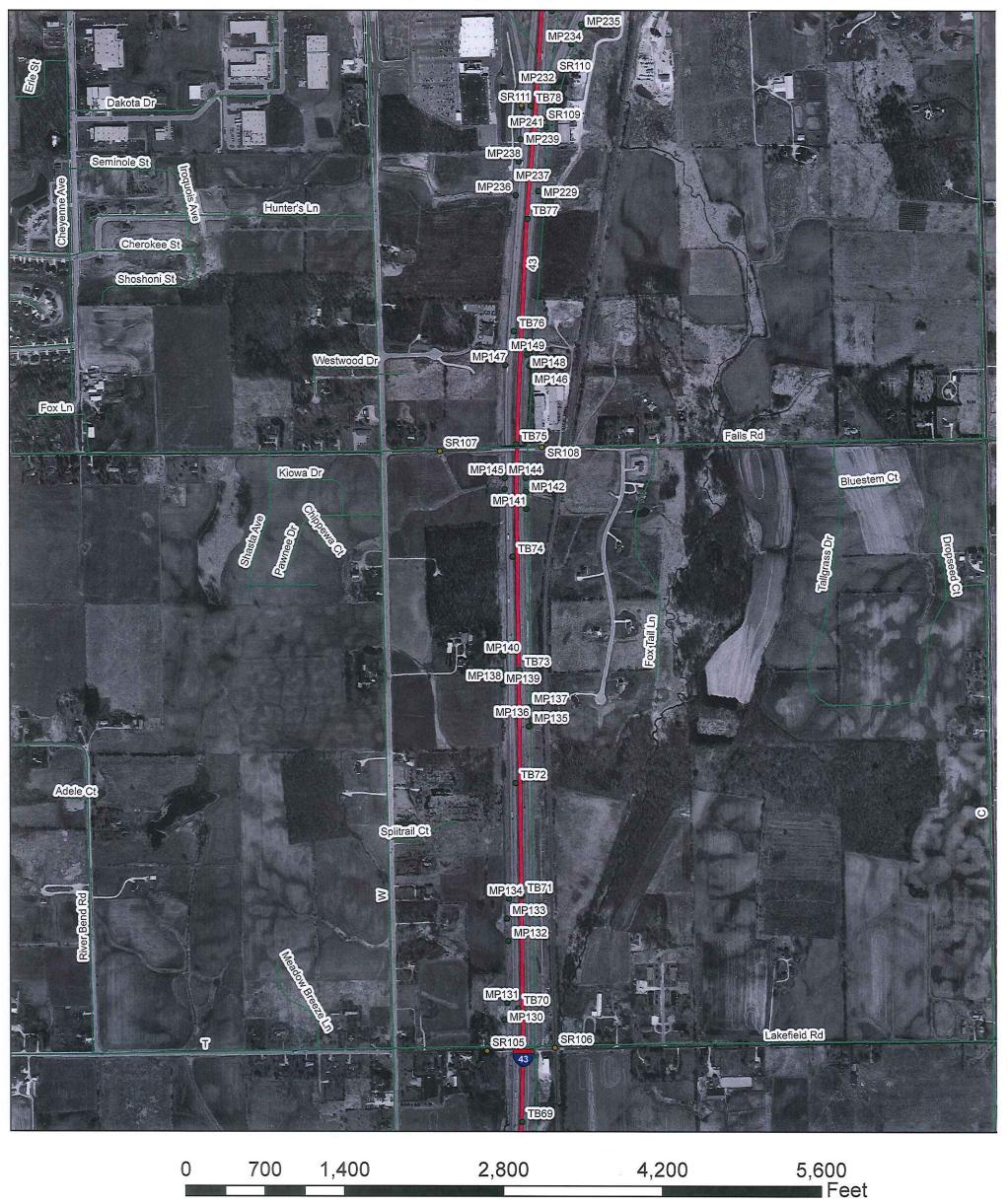
1,400

5,600 Feet

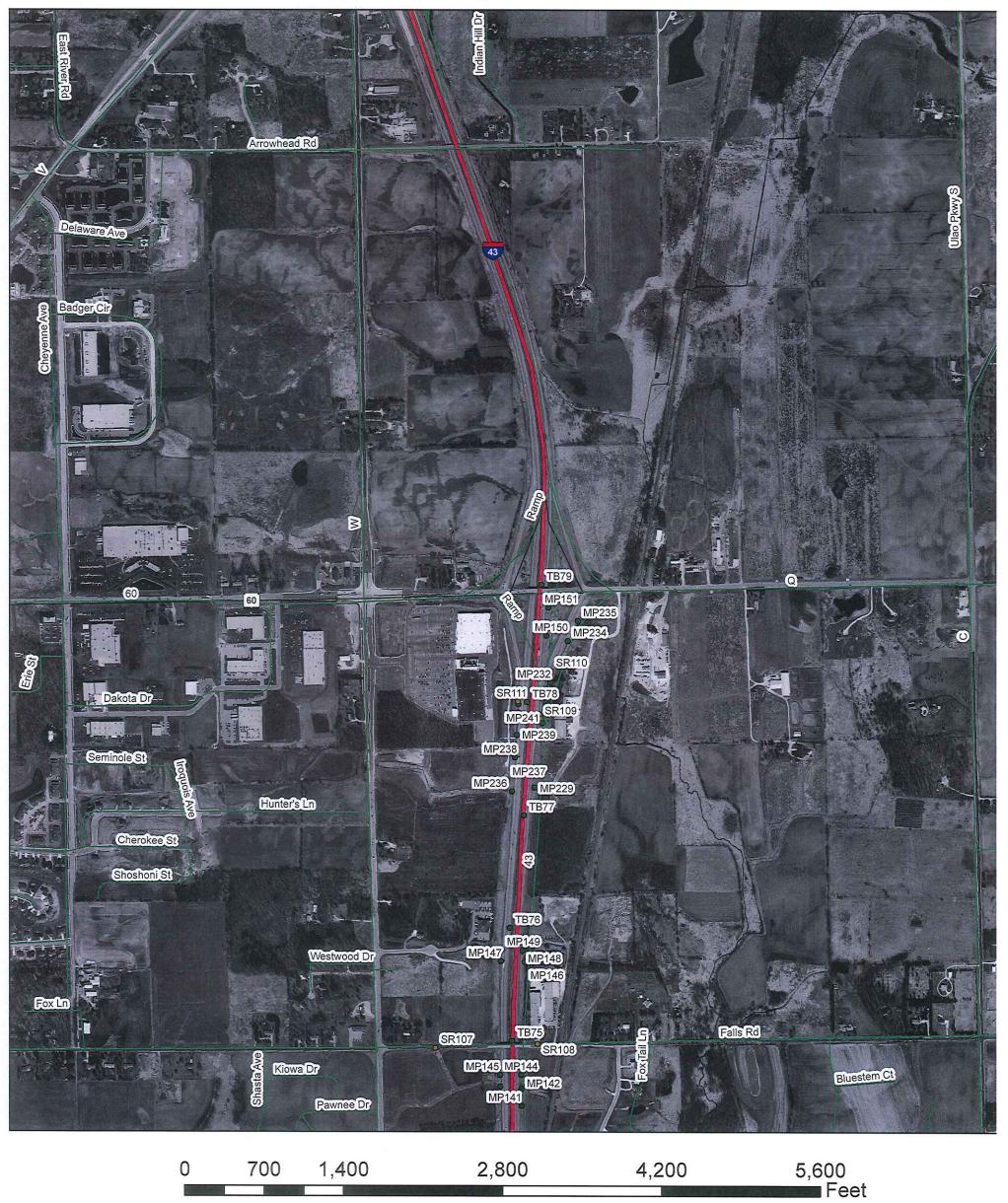












Appendix B

Test Boring Logs

DEPA.	SCONSIN.	WI [Dept. 2 Kin	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01			BORING ID:				B1	
HAMER	OFTRANS	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:	loc.	NOUI TANT DOO JEST NO			AGE NO			1,	1 of 1	
	DOT PRO	OJECT NA	AIVIE:		I-	43	ONSULTANT: RILLING CONTRACTOR:		NSULTANT PROJECT NO:	SCT NO:		ORTHIN				ONGITUDE:	
							REW CHIEF:	T	ILLING CONTRACTOR PROJE	ECT NO:		OORDIN	3338	369.41	19	604897.022	
	E STAR				9/03/	14	OGGED BY:		LE SIZE:			ORIZON			I.	/ERTICAL DATUM:	
	JNTY:	LETED.			9/03/	14	RVT	T HAN	MMER TYPE:	4	in		WG	S 198	34	MSL	
	TION			lilwaukee/		ee	C. Wierzchowsk OWNSHIP: RANGE: SECTION	(i	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA	
-	1	090+0	0SB		40	<u>Lt</u>											
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origi	in for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
						200004000	6" HMA 0.5								HSA	A	
						2 4 4	8" PCC										
			3		1 -	4 A	1.2										
						·A	4" BASE COURSE 1.5 MEDIUM TO COARSE SAND, dark		a /lala ala maninta tanana	GW							
\setminus							gravel, medium dense, FILL	DIOWI	n/black, moist, trace								
$\backslash /$					2 -												
X	SS 1	10	M 5	10-8-7-6 (15)						SP							
Λ	'			(13)													
$/\setminus$					- 3 -												
						777	3.5 CLAY, brown/dark brown, moist, tra	ıca sar	nd stiff POSSIBLE		-						
\setminus							FILL	ice sai	ilu, still, FOSSIBLE								
\mathbb{N}					4 -												
X	SS 2	10	M 24	2-3-3-4 (6)							1.5						
Λ			24	(0)													
$/ \setminus$					⊢ 5−												
					- 6 -					SC							
					7 -												
			20		- 8 -												
L,					-		8.5 CLAYEY SAND, brown mottled, wet	t trace	e silt loose								
M							SETTET STAND, Brown modecu, wet	i, iidoc	3 Siit, 1003C								
\bigvee					9 -					sc							
X	SS 3	18	М	3-4-4-4 (8)													
Λ	J			(0)			10.0										
$/ \setminus$		1		1	' 10	v./·/	End of Boring a	at 10.0) ft.		1	1				1	
							MATERIES A CONTRACTOR	IN	NOCED (47:0): =								
_	7 \ \	٨Τ٢٥	ENIO	אוואדרטרי	ייטווטיי	VIC 5	WATER LEVEL & CAVE-				NI:	NIN AT				WET [
<u> 7</u>	_			L AT COMF			RILLING: NMR B		:AVE - IN DEPTH AT :AVE - IN DEPTH AF			NMR NMR				WET DRY WET DRY DRY	
_							resent the approximate boundary; gradual tra	-								DRY 🗌	
L							urement Recorded		a see a see a see a see a see	20 0/4							

OED!	CONSIN.	WI [Dept.	of Transp Isman Blvo	ortatio	on				OR	ING	ID:	B2		
Man All	FTRANSTO	Mad	lison	, WI 53704	,		WISDOT STRUCTURE ID:	CONCULTANT PROJECT ::			E NO:			LONOTUS	1 of 1
		OJECT NA	AME:		1-4	13	CONSULTANT:	CONSULTANT PROJECT NO:			TTUDE:			LONGITUDE:	
	DWAYN						PRILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT NO				3346	75.13	EASTING: 6049	96.878
	START	LETED:			7/29/	14	ORGED BY:	DRILL RIG: HOLE SIZE:			COORDINATE SYSTEM: HORIZONTAL DATUM:			VERTICAL DATUM	<u> </u>
	NTY:				7/29/	14	OG OC BY:	HAMMER TYPE:	4 in		EAMBED			LECTIONS DATION	
STAT	ΓΙΟΝ	000:0		lilwaukee/ (e	C. Wierzchowski OWNSHIP: RANGE: SECTION:		4 SECTION:		RFACE EL				NA
	1	<u>098+0</u>	ONB		40	Rt				1					
SAMPI F TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Note	es
						P 4	7" HMA 0.6 7" PCC						HS	SA	
			4		1 -	4 A	1.2								
\mathbb{N}			15			7	1.5 4" BASE COURSE SILTY CLAY, brown mottled, moist, to	ace sand & gravel, very	GW						
X	SS 1	8	М	4-4-5-6 (9)	- 2 -		stiff		3	5.5					
$/ \setminus$															
\forall					- 3 -	//	Hard								
$ \rangle $	SS		20	5-7-11-12											
	2	19	М	(18)	- 4 -	//			4	.5					
$/ \setminus$															
					- 5-										
					- 6 -										
					7										
					- 7 -										
					8 -	//									
$\setminus \int$						//	GRAVEL, very stiff		CL						
V	SS	23	M	3-5-7-10	- 9 -				1	.0					
	3	20	21	(12)		//									
ackslash					- 10 -										
						//									
					- 11 -										
2						//									
					- 12 -										
						//									
					13 -	//									
//															
	SS 4	24	M 20	4-6-7-12 (13)	- 14 -	//			3	5.5					
$/ \setminus $	•														
\square					15	///	15.0 End of Boring at	15.0 ft.							
							WATER LEVEL & CAVE-II	N OBSERVATION DATA	Α						
$\overline{\mathbb{Z}}$. w.	ATER	ENC	DUNTERED	DURIN	IG D		CAVE - IN DEPTH AT COM		N	IMR				WET
Ā		ATER	LEVE	L AT COMP	LETIO	N:	NMR	CAVE - IN DEPTH AFTER	0 HOURS:	N	MR				WET DRY
NO							resent the approximate boundary; gradual trans urement Recorded	ition between in-situ soil layers sho	uld be expect	ted.					
		_/ IVE - I	VUL EN	icounicicu, IVIV	\ - IVU I	vicas	aroment Necoraed								

1	OEDW.	SCONSIN. 30	WI E	ept.	of Transp Isman Blvo	ortati	on		OT PROJECT ID:		1229-04	-01					G ID	:	B3
March Marc	TAMBORY.	OF TRANSPOR	Mad	ison	, WI 53704	Ī			OT STRUCTURE ID:		CONCLIL TANT DDG :500	T NO.						li a	1 of 1
## SOURCE				uviE:		l-	43		ACTOP:										
Section Sect									ACTOR:	RVT		R PROJECT NO:				3347		4	604880.516
Section Sect						9/03/	14											VE	ERTICAL DATLIM:
Millwarked Caralytes C. Wierchowski September Mills						9/03/	14			RVT			4	in					EKTIONE DATION.
SS 16 M S-R-10-12 5 19 19 19 19 19 19 19		TION			lilwaukee/		ee		C. Wie	SECTION:		I: 1/4 1/4	SECTION:						NA
SS 16 M 5-9-10-12 - 5		1	<u>099+0</u>	<u>0SB</u>		40	<u>Lt </u>												
SS 18 M 3-6-5-8 - 3 SILTY CLAY, gray/brown motited, moist, hard SS 17 M 5-8-10-12 - 5 SAND LENSES, hard to very staff SS 18 M 5-7-8-10 9 SAND LENSES, hard to very staff WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR SAND LENSES, hard to very staff WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR SAND LENSES, hard to very staff WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR SAND LENSES, hard to very staff WATER LEVEL & COMPLETION NMR SAND LENSES NMR S	SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and C	Geological C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 16 M 5-7-8-10 9 SILTY CLAY, gray/brown motited, moist, hard SS 16 M 5-7-8-10 9 SILTY CLAY, gray/brown motited, moist, hard SS 16 M 5-7-8-10 9 SILTY CLAY, gray/brown motited, moist, hard A 5 SAND LENSES, hard to very stiff SAND LENSES, hard to very stiff SS 16 M 5-7-8-10 9 SILTY CLAY, gray/brown motited, moist, hard A 5 SAND LENSES, hard to very stiff SS 16 M 5-7-8-10 9 SILTY CLAY, gray/brown motited, moist, hard A 5 SAND LENSES, hard to very stiff SS 2 17 M 5-8-10-12 5 SILTY CLAY, gray/brown motited, moist, hard A 5 SAND LENSES, hard to very stiff SS 2 17 M 5-8-10-12 5 SILTY CLAY, gray/brown motited, moist, hard A 5 SAND LENSES, hard to very stiff CL 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff CL 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff CL 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff CL 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff CL 5 SAND LENSES, hard to very stiff A 5 SAND LENSES, hard to very stiff								6.5" HN	ИΑ								F	ISA	
SS 18 M 3-6-5-8 - 3 SILTY CLAY, gray/brown motited, most, hard SS 17 M 5-8-10-12 - 5 SAND LENSES, hard to very stiff SS 16 M 5-7-8-10 - 9 SAND LENSES, hard to very stiff WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT ERO HOURS: MAR WATER LEVEL AT COMPLETION: MAR							PA		.										
SS 8 M 3-6-5-8 3 SILTY CLAY, gray/brown mottled, moist, hard 4 SAND LENSES, hard to very stiff 4.5 SS 17 M 5-8-10-12 5 SAND LENSES, hard to very stiff 4.5 SS 16 M 5-7-8-10 9 SAND LENSES, hard to very stiff 4.5 SS 16 M 5-7-8-10 9 SAND LENSES, hard to very stiff 4.5 WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR MR MR MR MR MR MR MR				3		_ 1 -	P 4	<u>مُ</u>											
SS 8 M 3-6-5-8 3 SAND LENSES, hard to very stiff						'	. 1		SE COURSE										
SS 8 M 3-6-5-8 3 4 SAND LENSES, hard to very stiff 4.5													GW						
SS 8 M 3-6-5-8 3 4	L,					_ 2 -			CLAY, gray/brow	n mottled, mo	ist, hard			-					
SS 17 M 5-8-10-12 5	M																		
SS 17 M 5-8-10-12 5	\backslash / \mid																		
SS 17 M 5-8-10-12 5	M		8			- 3 -								4.5					
SS 16 M 5-8-10-12 5 6 CL	$ \Lambda $	1		19	(11)														
SS 16 M 5-8-10-12 5 6 CL	$/ \setminus$																		
SS 16 M 5-8-10-12 5 6 CL						4 -													
SS 16 M 5-7-8-10 9 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	1					-		SAND	LENSES, hard to	very stiff									
SS 16 M 5-7-8-10 9 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	M																		
SS 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR MATER LEVEL AT CO	V	SS	17	М	5-8-10-12	5-		1						4.5					
SS 16 M 5-7-8-10 9 3.5 WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR	$ \Lambda $	2	''	18	(18)														
SS 16 M 5-7-8-10 9 3.5 WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR	$/ \setminus$																		
SS 16 M 5-7-8-10 9 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH ATTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						6 -							CL						
SS 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR PRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR PRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																			
SS 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR PRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR PRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								1											
SS 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR PRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR PRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 7 -		1											
SS 3 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						'													
SS 3 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																			
SS 3 16 M 5-7-8-10 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						۵													
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT C	1						V/.												
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT C	\backslash / \mid						1	1											
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT C	V		16			_ 0		1						2 5					
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVE		3	10	20	(15)	9								3.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVE	$/ \setminus$																		
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						10		10.0											
▼ WATER ENCOUNTERED DURING DRILLING: NMR IMR CAVE - IN DEPTH AT COMPLETION: NMR NMR WET ENCY ▼ WATER LEVEL AT COMPLETION: NMR Image: CAVE - IN DEPTH AFTER 0 HOURS: NMR NMR WET ENCY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						10			End	d of Boring at	10.0 ft.								
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WA	TER LEVEL	& CAVE-II	N OBSERVATI	ON DATA	\						
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\overline{\nabla}$	_ W	ATER	ENC	DUNTERED	DURI	NG D							N:	NMR				WET DRY
	\bar{A}	_ w	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		Ī	CAVE - IN DEP	TH AFTER (HOUR	RS:	NMR				WET DRY
	NC									y; gradual trans	ition between in-situ s	soil layers shou	ıld be ex	pected.					

- OEPM	CONSIN.	WI [ept.	of Transpose	ortati	on	WISDO	OT PROJECT ID:		1229-04-0	1				G ID):	B4
HAMON'S	FTRANSTO	Mad	lison	, WI 53704				OT STRUCTURE ID:		CONCILITANT DECISES ::	۸۰		ATITUD			li a	1 of 1
	DOT PRO	OJECT NA	MVIE:		I-	43	CONSULTANT: ORILLING CONTR	PACTOP:		CONSULTANT PROJECT NO DRILLING CONTRACTOR PR			ATITUDI				ONGITUDE: ASTING:
								RACTOR:	RVT		ROJECT NO:		COORDIN	3351	166.49	8	604861.008
	E START	PLETED:			7/22/	14	CREW CHIEF:			DRILL RIG: HOLE SIZE:			HORIZON			I V/F	ERTICAL DATUM:
	NTY:	LETED.			7/22/	14	LOG QC BY:		RVT	HAMMER TYPE:		4 in			VATION:		
	ΓΙΟΝ			lilwaukee/		ee	FOWNSHIP:	C. Wier	rzchowski SECTION:	1/4 SECTION:	1/4 1/4 SECTIO		URFACE				NA
	1	103+0	0SB		40	Lt						\top					
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic		and G	/ Rock Des eological (ajor Unit / (Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						A P A A	0.3 3" HMA 6.5" PC	A DC								HSA	
			3		1.		1 5 10	E COURSE			GW	,					
1					'		\$1.1 SILTY (mottled, mo	ist, trace sand & gravel							
\mathbb{N}			19				verysu										
X I	SS 1	13	М	2-3-6-6 (9)	- 2 -							4.0					
$/ \setminus$																	
\vdash					3 -		Hard										
\mathbb{N}			18														
\mathbb{V}			10														
ΙXI	SS 2	15	М	6-7-10-13 (17)	4 -							4.5					
$/\!\!\setminus\!\!\!\parallel$																	
$/ \setminus$																	
					 5-												
											CL						
					- 6 -												
					- 7 -												
					8 -		Very sti	iff									
NA							very su										
M																	
l X I	SS 3	24	M 20	5-6-10-11 (16)	- 9 -							3.75	5				
$/ \setminus$																	
Н					10	<u> </u>	1	End	of Boring at	10.0 ft.			1				1
							14/67		0.04\/= "	N ODOEDVATION	LDATA						_
$\overline{\nabla}$	۱۸/	ATFR	ENC	OUNTERED	ויםו וח נ	NG F		NMR	& CAVE-II	N OBSERVATION CAVE - IN DEPTH		ON.	NMR				WET DRY
_ <u>₹</u>				EL AT COMF			NMR	INIVIIX		CAVE - IN DEPTH			NMR				DRY DRY DRY DRY DRY
_	TES: 1	1) Stratifi	cation	lines between	soil type	es rep	resent the app			sition between in-situ soil i							טאז 🗌
	2	2) NE = 1	Not Er	ncountered; NN	ИR = No	Meas	urement Reco	orded									

OED!	ONSIN.	WI E	Dept.	of Transp Isman Blvo	ortatio	on	WISDOT	Γ PROJECT ID:		1229-04-0	01					G ID):	B5
TAUCO.	TRANSPOR	Mad DJECT NA	lison	, WI 53704	-• !	4		F STRUCTURE ID:		CONCILITANT PROJECT	10.			AGE NO:			Ti a	1 of 1
			AME:		I-	43	CONSULTANT:	CTOD:		CONSULTANT PROJECT N				ATITUDE				
	OWAY N						PRILLING CONTRAC	CTOR:	RVT	DRILLING CONTRACTOR F	PROJECT NO:			ORTHIN	3352	275.03	1	ASTING: 604967.548
	START	LETED:			7/29/	14	OGGED BY:			DRILL RIG: HOLE SIZE:				ORIZON			\/F	ERTICAL DATUM:
COU					7/29/	14	OG QC BY:		RVT	HAMMER TYPE:		4 i	n			VATION:		
STAT	ION	104+0		lilwaukee/ (e	OWNSHIP:	C. Wier	SECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:		JRFACE				NA
			OND			10				l								
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	Rock Des eological C ajor Unit / C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							0.4 5" HMA										HSA	
							6.5" PCC											
			4		- 1 -		● 1.4	COURSE				GW						
$\left \right $	SS 1	15	17 M	2-3-5-6 (8)	- 2 -		SILTY CI stiff	LAY, brown mott	lled, moist, tr	ace sand & gravel, ve	ry		3.5					
$\left(\cdot \right)$					3 -		Hard											
\bigvee	SS 2	20	18 M	5-8-13-15 (21)	- 4 -								4.5					
$/ \setminus$					- 5-													
					- 6 -													
					- 7 -													
\bigvee	ss	22	М	4-5-6-10	+ 8 - - 9 -		Very stiff	f				CL	4.0					
\bigvee	3	22	19	(11)	-10-								4.0					
					- 11 -													
					- 12 -													
1					- 13 -													
	SS 4	24	M 20	5-7-9-11 (16)	- 14 -								4.0					
\vdash					15	//	15.0	End	of Boring at	15.0 ft.								
\vdash							WATI	ER LEVEL 8	& CAVE-II	N OBSERVATIO	N DATA							
Ā	W	ATER I	ENC	DUNTERED	DURIN	IG D		NMR		CAVE - IN DEPTH		ETION	1:	NMR				WET DRY
Ā	+			L AT COMP			NMR		Ī	CAVE - IN DEPTH				NMR				WET DRY
NO							resent the appro urement Record		gradual trans	ition between in-situ soi	il layers should	be expe	ected.					
5		./ IV⊑ - I	VUL E	icounicicu, IVIV	\ - IVO	vicas	arennent Record	<i>i</i> ou										

Machinon, Vin 2-774	OED.	WI Dept. of Transporta 3502 Kinsman Blvd. Madison, WI 53704						WISDOT PROJECT ID:		1229-04-01				RIN	G II) :	B6
1.43	ARTHREE	Madison, WI 53704 WISDOT PROJECT NAME:															1 of 1
Second S				AME:		l-	43										
Section Sect								RV	/ T		T NO:			335			604841.317
Section Sect						9/03/	14									Iv.	/EDTICAL DATUM
Section 100-100-100 Section			LETED:			9/03/	14	RV	/ T								/ERTICAL DATUM:
1106-0058				M		Ozauk	ee	C. Wierzchows	ski		1/4 1/4 SECTIO					4.	NA
SS 12 M 3-4-4-5 SILTY CLAY, brown/dark brown, moist, very stiff	017	1	106+0	0SB	OTT GET		40	TOWNSE. SESTION	/1 4 .	774 SECTION.	174 174 OEOTIC	· ·	1	JE ELLEVI	1	1	T
SS 12 M 3-4-4-5 2 1.5 SILTY CLAY, brown/dark brown, moist, trace gravel, very stiff SS 12 M 3-4-4-5 2 SS 12 M 3-4-4-5 3.5 SILTY CLAY, brown motitied, moist, very stiff CL 3.5 SS 18 M 5-7-8-11 (15) -5 SS SILTY CLAY, brown motitied, moist, very stiff A-7-8 (6) 2.5 42 26 SS 18 M 5-7-8-11 (15) -5 SS SILTY CLAY, brown motitied, moist, very stiff CL 3.0 SS SILTY CLAY, brown motitied, moist, very stiff CL 3.0 SILTY CLAY, brown moti		SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for	USCS / AASHTO	Strength Qp	(IST) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 12 M 3.4.4.5 (8) 3.5 SILTY CLAY, brownidark brown, moist, trace gravel, very stiff CL 3.5 SS 18 M 5.7.8-11				4		- 1 -		0.4 7" PCC								HSA	A
SS 12 M 3.4-4-5 2											GV						
A.7-6 (6) SS 18 M 5-7-8-11 - 5 -		SS 1	12		3-4-4-5 (8)			3.5			CL	3.8	5				
SS 18 M 5-5-7-10 10.5 End of Boring at 10.5 ft.		SS 2	18		5-7-8-11 (15)				2,			2.5	5 42	26			
SS 18 M 5-5-7-10 (12) SS 18 M 5-5-7-10 (12) WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET CAVE - IN DEPTH AT COMPLETION: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR	10/15/14			24		- 7-					CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	PJ 43			2		0	//										
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43 - SILVER SPRING TO STH 60(GINT\1229-04-01.G)		18	M				CLAY, brown/dark brown, moist, vo			CL	3.0)				
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	- 04-01				_			End of Boring	at	10.5 ft.							
WATER ENCOUNTERED DURING DRILLING: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET D	-43/1229							WATER LEVEL & CAVE	IN	N OBSERVATION DA	ATA						
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	AUKEEV.	7 w	ATER	ENC	OUNTERED	DURI	NG F					ON:	NMI	₹			WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SWILW																WET DRY
THE STATE OF THE PART IN PROPERTY OF THE PARTY OF THE PAR	No	OTES: 1							rans	ition between in-situ soil layers	should be e	xpecte	d.				

WI Dept. of Transport 3502 Kinsman Blvd. Madison, WI 53704						n	WISDOT PROJECT ID:	1229-04-01					G IE):	B7
A COPT	RANSTO	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:	CONCULTANT PROJECT VO			AGE NO			1.	1 of 1
	WAY N	JECT NA	IVIE:		I-4	. 3	CONSULTANT: DRILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT NO:			ORTHIN				ONGITUDE:
							RVT					3356	675.8	37	604931.749
	START	ETED:			7/22/1	4	OREW CHIEF:	DRILL RIG: HOLE SIZE:				ITAL DA		Ιv	/ERTICAL DATUM:
COUN		LILD.			7/22/1	4	OG OC RV:	HAMMER TYPE:	4	in			VATION		PERTICAL DATOW.
STATIO	ON	108+0		ilwaukee/ (e	C. Wierzchowski OWNSHIP: RANGE: SECTION:		SECTION:			ELEVA		•	NA
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	8	M 12	3-3-2-1 (5)	- 1 -		0.2 2" TOPSOIL SILTY SAND, dark brown, moist, with clay, loose	gravel & organics, trace	SM	-				HSA	A
	SS 2	18	M 16	3-7-9-12 (16)	- 3 - - 4 - - 5 - - 6 -		SILTY CLAY, gray/brown mottled, mo	ist, trace sand & gravel,	CL	4.5					
	SS 3	24	M 20	6-7-9-10 (16)	- 7 - - 8 - - 10 - - 11 - - 12 -		8.0 SILTY CLAY, brown, moist, trace gra	vel, hard to very stiff		4.25					
	SS 4	24	M 21	4-5-8-9 (13)	- 13 - - 14 - 15- - 16 -		A-7-6 (8)		CL	3.5	43	28			
80/GIN1/1229-04-01.GPJ 1-43 10/15/14	SS 5	22	M 20	3-5-6-8 (11)	- 17 - - 18 - - 19 - 20 - - 21 -					3.75					
9-04-01 - 1-43 - SILVER SPRING TO STH 60	SS 6	24	M 16	2-4-7-8 (11)	- 22 - - 23 - - 24 -		23.0 SILTY CLAY, dark gray/brown, moist very stiff 25.0 End of Boring at		CL	2.25					
-43/1228							End of Boring at WATER LEVEL & CAVE-I								
AOKE T	W	ATER I	ENCC	DUNTERED	DURIN	GΓ	1	CAVE - IN DEPTH AT COM	PLETIO	N:	NMR				WET DRY
Z SWILWA	_			L AT COMP			NMR I	CAVE - IN DEPTH AFTER 0			NMR				DRY WET DRY
≝							resent the approximate boundary; gradual tran								ואט 📙
ğ							urement Recorded	•	,						

ſ	MISCONSIN	350°	Dept.	of Transp sman Blv	ortati	12200701						BORING ID: B				
	Madison, WI 53704						WISDOT STRUCTURE ID:					AGE NO:				1 of 1
			AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ROADWAY						PRILLING CONTRACTOR:	RVT		CT NO:		ORTHIN	3357	60.46	66 E	ASTING: 604807.977
	DATE STA				7/29/	14	CREW CHIEF:		DRILL RIG:			OORDIN				
L	DATE CON	IPLETED:			7/29/	14	OGGED BY:	RVT		4	in	ORIZON				ERTICAL DATUM:
	COUNTY:		N	lilwaukee/	Ozauk	ee	OG QC BY: C. Wie COWNSHIP: RANGE:	rzchowski SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		TREAMB				NA
Ľ	STATION	1109+0	0SB	OFFSET		40 '	OWNSHIF. RANGE.	SECTION.	1/4 SECTION.	1/4 1/4 SECTION.	, j	I	CLEVA	TION.		Т
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and G Each M	/ Rock Des Geological (ajor Unit /	scription Drigin for Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						P P	0.3 4" HMA 8" PCC								HSA	\
					1.	2 A	1.0									
\	1		21				1.4 5" BASE COURSE	:	.d 0	GW						
/	SS 1	5	M 6	3-4-5-6 (9)	- 2 -		SILTY CLAY, Drown, mo	olst, trace sar	d & gravel, stiff, POSSIBLE	CL	2.0					
/	SS 2	18	16 M	6-7-10-15 (17)	- 4 -		3.5 SILTY CLAY, gray/browr hard to very stiff	SILTY CLAY, gray/brown mottled, moist, trace sand & gravel,								
	<u> </u>				- 6 - - 7 -											
/	SS 3	24	M 22	5-9-7-11 (16)	- 9 -					CL	4.0					
INT/1229-04-01.GPJ 1-43 12/10/14					- 11 - - 12 -											
COUNTIESIMILWAUKEE¥4311229-04-01 - 143 - SILVER SPRING TO STH 60\GINTY1229-04-01.GPJ 143 12/10/14	SS 4	24	M 20	5-6-8-12 (14)	- 13 - - 14 -		15.0 End	of Boring at	15 O ft		4.0					
3/1229-04										· · · ·						
JKEEV-43	□ .		- LIO) INITESES	DUID.	NO 5			N OBSERVATION D		N. 1	NIN / =				WET 🗆
MILWAU	-			DUNTERED					CAVE IN DEPTH AT			NMR				WET DRY WET DRY DRY
JNTIES				L AT COMF			NMR resent the approximate boundary	r gradual tran	CAVE - IN DEPTH AF			NMR				DRY 🗎
J:/COL							urement Recorded	, gradudi lidil	sotroon iir-situ soii iaye	. S Griodia De EXL	Joicu.					

dao.	WI Dept. of Transporta 3502 Kinsman Blvd.						1225 57 51					BORING ID: B						
AHTTMERS	Madison, WI 53704						WISDOT STRU	CTURE ID:									1 of 1	
			AME:		Į-	43	CONSULTANT:			CONSULTANT PROJECT NO:			LATITU		LONGITUDE: CONTINUE CONTINUE			
	ADWAY N						PRILLING CONTRACTOR:	RV	T	PRILLING CONTRACTOR PROJEC	T NO:		NORTH	336		61	EASTING: 604855.286	
	E START				9/03/	14	CREW CHIEF:			PRILL RIG:								
	TE COMP	LETED:			9/03/	14	OGGED BY:	RV	T	IOLE SIZE:		4 in					/ERTICAL DATUM:	
	JNTY:		M	lilwaukee/	Ozauk	ee	OG QC BY: OWNSHIP: RA	C. Wierzchowsk	ki 📗	IAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECT	ON:				N:	NA	
317	1	114+0	0NB	OFFSET		60	OWNSHIF. RA	NGE. SECTION	ν.	1/4 SECTION.	1/4 1/4 SECT	OIN.	JUNIA	OE ELEV	TION.		T	
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock De and Geological Each Major Unit	I Ori	igin for	CELIOVA	Strength Qp	(tsf) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
							4" HMA 0.3									HSA	A .	
						P A A												
			6		_ 1 .	A A	1.0 أم											
			"		'		6" BASE COU	IRSE			G	w						
					1		1.5 SILTY CLAY,	brown/dark brown, mo	oist,	with sand & gravel, stiff,								
1 /					- 2	1//	POSSIBLE FII	LL										
W	SS		M	4-6-5-4														
١Å	1	12	13	(11)								2.	0					
/	- 3																	
/ \																		
											C	L						
1 /					- 4													
W	SS		M	3-2-3-4														
I٨	2	8	20	(5)								2.	0					
/					- 5-	1//												
/ \							5.5											
									noist	t, trace sand & gravel,								
					- 6		J 10 10.7 0											
					7	1//												
10/14																		
43 12/			15		- 8	1//					С	L						
11.GPJ																		
229-04-0																		
D/GINT/1					- 9													
о STН6	SS	16	M	4-5-8-8								3.	0					
PRING 1	3			(13)														
ILVERS					-10-	1//												
COUNTIESMILWAUKEEV-431/229-04-01 - 143 - SILVER SPRING TO STH-60/GINT/1229-04-01 (GPJ 143 12*10*10*14)						//	10.5	End of Boring a	at 10	0.5 ft.						1		
1229-04-0								9										
EEV-43/							WATER			OBSERVATION D								
Z WAUK	_			DUNTERED					-	CAVE - IN DEPTH AT (NM				WET DRY	
INTIESWII				L AT COMF			NMR	to houndary are duel to		CAVE - IN DEPTH AFT			NMI	R			WET DRY	
NOO!!							resent the approximat urement Recorded	e boundary; graduai tra	ai iSITIC	on between in-situ soil layers	s sriouia De	expecte	zu.					

OED!	ONSIN.	WI [ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID):	B10
ATTON OF	TRANSPOR	Mad	ison	, WI 53704	,		WISDOT STRUCTURE ID:	CONCULTANT PROJECT !:			AGE NO:			J	1 of 1
		DJECT NA	ME:		I-4	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	O YAW						ORILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3373	33.99	3	ASTING: 604528.558
	START	LETED:			7/22/	14	CREW CHIEF: LOGGED BY:	DRILL RIG: HOLE SIZE:				IATE SY		1.0	ERTICAL DATUM:
		LETED:			7/22/	14	RVT		4	in					ERTICAL DATUM:
COUN			M	lilwaukee/	Ozauke	e	OG QC BY: C. Wierzchowski FOWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/4 1/4	SECTION:			ELEVA	VATION:		NA
JIAII	1	125+0	0SB	OI I SEI	40	Lt	TOWNSHIE. TOWNSLIE. SECTION.	174 JECTION. 174 174	JECTION.	1	JNI ACL	I LLLVA	I I		<u> </u>
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	9	M 8	3-3-2-1 (5)	- 1 -	Z/ /X	0.3 3" TOPSOIL SILTY SAND, dark brown, moist, trac	e organics & gravel, loose	SM					HSA	
$\backslash /$					- 3 -		3.0 SILTY CLAY, brown/dark brown, mois organics, very stiff	t, little sand, trace							
\bigvee	SS 2	10	M 23	4-3-3-4 (6)	- 4 - - 5-					2.25					
					- 6 - - 7 -				CL						
\bigvee	SS 3	17	M 26	3-3-4-5 (7)	- 9 -		A-7-6 (18)		3.25	49	32			Fines = 81%
					- 11 -										
					- 12 - - 13 -		13.0 SILTY CLAY, brown mottled, moist, tr	ace sand & gravel, hard							
	SS 4	18	M 18	6-8-12-12 (20)	- 14 -				CL	4.5					
				<u> </u>	15	//	15.0 End of Boring at	15.0 ft.		1					
-							WATER LEVEL & CAVE-II								
$\overline{\nabla}$	14/	٨ΤΕΡ	ENICO	DUNTERED	אוטויא	IC T		CAVE - IN DEPTH AT COM	טו בדיר	NI.	NMR				WET □
<u>*</u>	+			L AT COMF			NMR III	CAVE - IN DEPTH AT COMP			NMR				WET DRY DRY DRY DRY DRY
							resent the approximate boundary; gradual trans				NIVIE				DRY 🗆
							surement Recorded		20 CA	. JJ.J.J.					

OEPAI OEPAI	CONSIN	WI E	ept. Kin	of Transp Isman Blv	ortation	on	WISDOT PROJECT ID:		1229-04-01					G ID):	B12
Wilch	OT DE	Mad DJECT NA	ison	, WI 53704			WISDOT STRUCTURE ID: CONSULTANT:		CONSULTANT PROJECT NO:			AGE NO:			lic	1 of 1
	DWAY N		uvic.		l-	43	DRILLING CONTRACTOR:		DRILLING CONTRACTOR PROJECT NO:			ORTHIN				STING:
	E STAR						CREW CHIEF:	VT	DRILL RIG:				3378 IATE SY	325.94	11	604439.19
	E COMP				9/03/	14	LOGGED BY:		HOLE SIZE:				ITAL DA		VE	RTICAL DATUM:
	INTY:				9/03/	14	LOG OC BY:	VT	HAMMER TYPE:	4	in			VATION:		
STA	TION	400.0		lilwaukee/ OFFSET			C. Wierzchows TOWNSHIP: RANGE: SECTIO	S ki DN:	1/4 SECTION: 1/4 1/4 5	SECTION:	SI	JRFACE	ELEVA	TION:		NA
	1	130+0	OSB		40	Lt										
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock E and Geologica Each Major Unit	al C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
			4		- 1 -		5" HMA 0.4 10" PCC 1.3 7" BASE COURSE			GW	-				HSA	
	SS 1	8	M 16	3-3-3-3 (6)	- 3 -		SILTY CLAY, brown/dark brown, n petro odor, POSSIBLE FILL			CL	1.5					
	SS 2	16	M 18	3-3-4-4 (7)	- 5- - 6-		SILTY CLAY, brown mottled, mois stiff to hard	st, tr	ace sand & gravel, very		2.5					
					- 7 -					CL						
	SS 3	12	M 18	5-6-7-10 (13)			10.0				4.5					
					10		End of Boring	g at	10.0 ft.							
\vdash							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= 11	N OBSERVATION DATA							
$\overline{\mathbb{Z}}$	· w	ATFR	ENC	OUNTERED	DURI	NG F		=-II 図	CAVE - IN DEPTH AT COMP	PLFTIC	N.	NMR				WET DRY
$\overline{\mathbf{v}}$	_			L AT COMF					CAVE - IN DEPTH AFTER 0			NMR				DRY WET DRY
_	TES: 1	1) Stratifi	cation	lines between	soil type	es rep	present the approximate boundary; gradual to	=								DIGI [
L	2	2) NE = I	Vot En	countered; NN	ИR = No	Meas	surement Recorded									

OFF WISC	CONSIN.	WI E	Dept. 2 Kin	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01					G ID	:	B13
ATTEN OF	FTRANS	Mad	lison	, WI 53704	,	1	WISDOT STRUCTURE ID:	CONCULTANT PROJECT VS			AGE NO:			l. c	1 of 1
		DJECT NA	AME:		1-4	13		CONSULTANT PROJECT NO:							NGITUDE:
	DWAYN						RILLING CONTRACTOR: RVT REW CHIEF:	DRILLING CONTRACTOR PROJECT NO	: 		ORTHIN	338	317.8	9 -	STING: 604349.822
	E START				7/15/	4	OGGED BY:	HOLE SIZE:			ORIZON			VE	RTICAL DATUM:
	NTY:	LLILD.			7/15/	4	OG QC BY:	HAMMER TYPE:	4	in	TREAMB				
STAT	TION			lilwaukee/ (е	C. Wierzchowski OWNSHIP: RANGE: SECTION:		/4 SECTION:		URFACE				NA
-	1	135+0	0SB		40	Lt									
SAMPI F TYPF	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	17	М	3-4-5-5 (9)	- 1 -		SILTY CLAY, brown/dark brown, mois organics, very stiff	st, trace sand & gravel &		4.0			ŀ	HSA	
	SS 2	13	M	3-4-4-5 (8)	- 3 - - 4 - - 5-				CL	3.0					
	SS 3	8	М	2-3-4-6 (7)	- 6 - - 7 - - 8 - - 9 -		8.0 SILTY CLAY, brown/gray mottled, movery stiff to hard	ist, trace sand & gravel,		4.0					
G TO STH 60/GINT/1229-04-01.GPJ 143 12/10/14					- 11 - - 12 - - 13 -				CL						
1 - F43 - SILVER SPRIN	SS 4	20	М	5-7-10-13 (17)	- 14 -		15.0			4.5					
1229-04-0					13		End of Boring at								
(EE1-43)							WATER LEVEL & CAVE-I								
				DUNTERED				CAVE - IN DEPTH AT CO			NMR				WET DRY
NATESWIII				L AT COMP			NMR	CAVE - IN DEPTH AFTER			NMR				WET □ DRY □
NO							resent the approximate boundary; gradual trans urement Recorded	siliori petween in-situ soil layers sho	рига ве ехр	ected.					

OFF WISCONS	₩I 1 350	Dept.	of Transp Isman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01					G ID:		B14
WICCO-	Mac	dison	, WI 53704		-	WISDOT STRUCTURE ID:	CONCILITANT PROJECT NO.			AGE NO:			LONGITUDE	1 of 1
	PROJECT N	IAME:		1-4	3	ONSULTANT: RILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT NO:			ORTHIN			LONGITUDE: EASTING:	
						RVT					3384	85.905	6 EASTING:	04443.30 ⁻
	ARTED:			7/28/1	4	REW CHIEF: DGGED BY:	DRILL RIG: HOLE SIZE:				TAL DAT		VERTICAL DA	ATLIM:
COUNTY				7/28/1	4	RVT	HAMMER TYPE:	4	in			VATION:	VERTICAL DA	TOW.
TATION	I		lilwaukee/ (OFFSET		e To	C. Wierzchowski DWNSHIP: RANGE: SECTION:		ECTION:			ELEVAT			N/
	1136+	50NB		50 F	₹t									
SAMPLE TYPE NUMBER	RECOVERY (in)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	lotes
					0 4 4 0 4 4	7" HMA 0.6 8" PCC						H	SA	
		_		1 -		1.3								
		6			7	6" BASE COURSE		GW						
s	۹		5-7-10-12			1.8 SILTY SAND, gray/ brown, moist, trac	ce gravel, firm, FILL							
\		M	(17)	- 2 -					2.0					
								SM						
								SIVI						
T				- 3 -										
Л		19				3.5 SILTY CLAY, brown, moist, trace san	d & gravel, hard							
∬ s		М	4-4-7-9	4			,		4.5					
\	2 10	"	(11)						1.5					
		-		5										
					//									
				6	//									
								CL						
				7 -										
					///									
					//									
				8 -										
1														
$\ \mathbf{s} \ $	s	М	4-8-12-16											
∏ 3		17	(20)	9 -		A-€	(4)		4.5	38	22			
/\														
\perp				10	//	10.0								
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION DATA							
$\overline{\mathbb{Z}}$	\A/ATED	ENC	OUNTERED	DURIN	G DF		CAVE - IN DEPTH AT COMP	LETIO	N.	NMR				WET DRY
<u></u>	WAIER	LIVO	00				07.1.2							DRYI
			L AT COMP			NMR	CAVE - IN DEPTH AFTER 0			NMR				WET DRY

## Continue	MISCONSIN 30	WI [Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G ID):	B15
143 Secure Contraction First Secure Contraction Secure Contraction First Secure Contract	OF TRANSPORT	Mad	lison	, WI 53704	u. -				CONOUNTALIT PRO IT							1 of 1
SS 18 M S-S-S-S 1			AMÉ:		I-4	43				TNO						
County C							RV*	T		T NO:			3388		7	ASTING: 604375.582
SS 18 M S-S-S-S 1					7/15/ ⁻	14									l v	EDTICAL DATUM
Minary Minary Marco Ma		LETED:			7/15/ ⁻	14	RV [*]	Т		4	in					ERTICAL DATUM:
140-90NB			M	lilwaukee/		Эе	C. Wierzchowsk	ki		1/4 1/4 SECTION:						NA
SS 18 M 5-5-5-5 1	1	140+0	0NB		40	Rt										
SS 18 M	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	10	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 11 M 4-5-6-8 4 4-5 4 4-5 4 4-5		18		5-5-5-5 (10)	- 1 -		0.6 SILTY CLAY, dark brown, moist, tra	асе	sand & gravel & organics,		4.5				HSA	
SS 20 M 7-10-18-18 9 4.5	SS 2	11	M 22	4-5-6-8 (11)	- 4 -		Moist, no organics, hard				4.5					
SS 22 M 3-6-5-8 14	SS 3	20		7-10-16-18 (26)	- 7 - - 8 - 3- 9 - -10 -					CL	4.5					
SS 24 M 3-7-6-8 19 20.0 End of Boring at 20.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	4	22			- 13 - - 14 - 15-		Moist, little sand, very stiff				2.5					
✓ WATER ENCOUNTERED DURING DRILLING: NMR ☑ CAVE - IN DEPTH AT COMPLETION: NMR WET DRY ✓ WATER LEVEL AT COMPLETION: NMR ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	ss	24			- 18 - - 19 -		20.0 End of Boring a	at 2	20.0 ft.		3.5					
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.							WATER LEVEL & CAVE-	-IN	OBSERVATION DA	ATA						
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	∇ w	ATER	ENCC	DUNTERED	DURIN	IG D					N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		ATER	LEVE	L AT COMF	PLETIO	N:	<u> </u>	-	CAVE - IN DEPTH AFT	ER 0 HOUR	S:	NMR				WET DRY
								ansi	tion between in-situ soil layers	s should be exp	ected.					

OF NISCONSIN.	WI [Dept. 2 Kin	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:	1229-04-0	1				G ID):	B17
WISDOT PF	Mad	lison	, WI 53704			WISDOT STRUCTURE ID: CONSULTANT:	CONSULTANT PROJECT NO	0.		GE NO:			li z	1 of 1
ROADWAY		NVIC.		l-	43	CONSULTANT: DRILLING CONTRACTOR:	DRILLING CONTRACTOR PI			ORTHIN				ONGITUDE: ASTING:
DATE STAR						CREW CHIEF:	T DRILLING CONTRACTOR PI	NOJECT NU:			3396 IATE SY	319.54	1 -	604275.357
DATE COM				9/03/	14	LOGGED BY:	HOLE SIZE:				TAL DA		VE	ERTICAL DATUM:
COUNTY:				9/03/	14	LOG OC BY:	HAMMER TYPE:	4 in	า 📗			VATION:		
STATION	1148+0		OFFSET	Ozauk 40	ee	C. Wierzchows TOWNSHIP: RANGE: SECTIO	ki	1/4 1/4 SECTION:			ELEVA			NA
				40	KL									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	l Origin for	USCS / AASHTO	Strength Ap (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					~ N	0.4 5" HMA						F	HSA	
		5		- 1 -	4 4	1.0 6.5" PCC 1.0 6.5" BASE COURSE		014						
		19			•	SILTY CLAY, gray/brown to dark b	rown, moist, trace sand, h	GW nard						
\				2 -		to very stiff								
V ss 1	12	М	3-4-4-4 (8)	- 3 -					4.5					
\		17	(0)											
				+ 4 -										
SS 2	10	M	5-7-6-8 (13)	- 5-				3	3.5					
/\			(13)											
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	+			+ 6 -										
				7 -										
				'										
	1			8 -	1//									
√ ss	1.0	M	3-5-4-6				A-6 (3)							
3	18	21	(9)	9 -			A-0 (3)		4.0	33	19			
ullet				10-										
								CL						
				- 11 -	1//									
				- 12 -										
	+	6-		13 -		Wet, stiff to very stiff								
V ss	17	20 M	3-4-4-3	- 14 -					2.0					
│ 4	''	IVI	(8)	'-					∪					
<u> </u>				15-	1//									
				10	//									
				- 16 -	1//									
				- 17 -										
1	1			 18 -										
SS 5	15	M 21	3-5-5-7	- 19 -	1				2.5					
/\ '		2	(10)		//	20.0								
	1	1	ı	' 20	1//	End of Boring	at 20.0 ft.		!					1
						WATER LEVEL & CAVE		N DATA						
_			DUNTERED				_	AT COMPLETION		NMR				WET DRY
			L AT COMF				-	AFTER 0 HOURS:		NMR				WET DRY
						oresent the approximate boundary; gradual to surement Recorded	ansition between in-situ soil	rayers snould be exped	ted.					

DE NOT	WI E	ept. Kin	of Transp sman Blvo	ortation	on	WISDOT PROJECT ID:	1229-04-01					G ID		B18
OFTRAM	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO:			LONOTT	1 of '
WISDOT PR		wit:		I-	43	ONSULTANT: RILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT	T NO:		ORTHIN			LONGITU	
						REW CHIEF:	DRILLING CONTRACTOR PROJEC	I NO:		OORDIN	339	807.48	BEASTING	604146.60
ATE STAR				9/03/	14	OGGED BY:	HOLE SIZE:			ORIZON			VERTICA	AL DATUM:
OUNTY:	ILLILD.			9/03/	14	RVT OG QC BY:	HAMMER TYPE:	4	in			VATION:	VEICHO	AL DATOWI.
TATION			ilwaukee/		ee T	C. Wierzchowski OWNSHIP: RANGE: SECTION:		1/4 1/4 SECTION:		JRFACE				N/
	1150+0	OSB		40	Lt									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					P	5.5" HMA 0.5 8" PCC						F	SA	
					4 A	0 FOO								
		5		1 -	, J	1.1 4.5" BASE COURSE			-					
				-		1.5 SILTY CLAY, brown/light brown mottl	ed moist trace sand very	GW	-					
				- 2 -		stiff	,,, ,, ,, ,, ,							
SS 1	8	M 17	3-3-4-6 (7)					CL	2.8					
				- 3 -										
						3.5								
						SILTY CLAY, brown, moist, trace gra	vel, hard		1					
				- 4 -										
SS	15	М	4-7-10-13						4.5					
2	13	16	(17)						4.5					
				- 5-										
					<i>//.</i>									
				6 -				CL						
				- 7 -										
		20		- 8 -										
						8.5								
						CLAY, gray/brown, wet, trace sand, r	ard							
				- 9 -										
SS 3	18	М	4-7-8-11					CL	4.5					
3			(15)			10.0								
	1	<u> </u>	I	' 10	1//	End of Boring at	10.0 ft.							
1						WATER LEVEL & CAVE-I	N ORSEDVATION D	ΔΤΔ						
_ v	/ATER	ENCC	DUNTERED	DURI	NG D		CAVE - IN DEPTH AT (N:	NMR				WET [
			L AT COMF			NMR	CAVE - IN DEPTH AFT			NMR				WET [DRY [
	1) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradual tran urement Recorded	L							

OF SCONSIN SOL	WI [Dept. 2 Kin	of Transp Isman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID		B19
OFTRANS	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:	LOONOUS TANT SEG SECTION			GE NO:			l.e.	1 of 1
WISDOT PR		AME:		I-4	43	ONSULTANT:	CONSULTANT PROJECT NO:			TITUDE				GITUDE:
ROADWAY						RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT NO:				3403	08.613	B EAS	TING: 604119.759
DATE STAR				7/28/	14	REW CHIEF:	DRILL RIG:				ATE SY		1	
DATE COMP	PLETED:			7/28/	14	OGGED BY:	HOLE SIZE:	4 in	1		TAL DA		VER'	TICAL DATUM:
COUNTY:		M	lilwaukee/	Ozauk	e	OG QC BY: C. Wierzchowski	HAMMER TYPE:	NECTION:				VATION:		NA
STATION	1155+0	0SB	OFFSET	40	Lt	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4 S	SECTION:	SU	IKFACE	ELEVA	I ION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
		\ 5		- 1 -	P &							F	SA	
SS 1	8	13 M	4-5-6-7 (11)	- 2 -		1.6 6" BASE COURSE SILTY CLAY, brown/gray mottled, mothard	ist, trace sand & gravel,	GW 4	1.5					
SS 2	12	18 M	3-4-6-8 (10)	- 3 - - 4 -				4	1.0					
<u>/ \</u>				- 5- - 6 - - 7 -										
SS 3	22	M 17	6-8-9-10 (17)	- 8 - - 9 -					1.5					
У V				10 - 11 - 12				CL						
SS 4	21	M 18	4-7-11-14 (18)	- 13 - - 14 - 15				4	1.5					
				- 16 <i>-</i> - 17 <i>-</i>		18.0								
SS 5	9	M 18	3-6-8-13 (14)	- 18 - - 19 -		SILTY CLAY, gray, moist, trace sand A-6 (2)	& gravel, very stiff	3	3.5	28	15			
<u>/_ \</u>				20 - 21 - - 22 -				CL						
SS 6	24	M 16	5-5-8-10 (13)	- 23 - - 24 -		25.0		3	3.5					
				25		End of Boring at								
						WATER LEVEL & CAVE-II								NAICT C
_			DUNTERED			<u> </u>	CAVE - IN DEPTH AT COMP			NMR				WET DRY WET WET
			L AT COMP			NMR	CAVE - IN DEPTH AFTER 0			NMR				WET DRY
						resent the approximate boundary; gradual trans urement Recorded	silion between in-situ soil layers shoul	и ре ехрес	red.					

OF WISCONS	. WI 1 350	Dept.	. of Transp nsman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	B20
OFTRAN	Mac PROJECT N	dison	, WI 53704	Ĭ.	1	WISDOT STRUCTURE ID:	CONCULTANT DOO 1507 VO			AGE NO:			1	1 of 1
ROADWA		AME:		l-4	13	ONSULTANT: RILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT	T NO:		ORTHIN				ONGITUDE: ASTING:
DATE ST						REW CHIEF:	DRILL RIG:	T NO.		OORDIN	3406	14.18	4 -	604227.075
	MPLETED:			9/03/	14	DGGED BY:	HOLE SIZE:			ORIZON			VE	ERTICAL DATUM:
COUNTY				9/03/	14	RVT	HAMMER TYPE:	4 iı	n			VATION:		
STATION	4450.4		/lilwaukee/		T	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SL	JRFACE	ELEVA	TION:		NA
	1158+0			40	Κι									
SAMPLE TYPE NUMBER	RECOVERY (in)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	strengtn വ്യ (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					7/1/	6" TOPSOIL						F	ISA	
				-	17 51	0.5 SILTY CLAY, brown/dark brown, mois	et, trace organics & sand,							
$\backslash /$				- 1 -		hard								
$\left \right \right $ s	9	M	2-5-4-4		//									
$\left \right 1$		13							4.5					
$/\backslash$				- 2 -										
/ \														
•					///									
				- 3 -	//	No organics, very stiff								
					//.									
1//				- 4 -										
	S 18	M 16	4-6-6-8 (12)		///				3.0					
 /\		10	(12)	_										
/ \				- 5-				CL						
				-	///									
				- 6 -	///									
					///									
					//.									
				- 7 -	//,									
				- 8 -	///	Gray/brown, very stiff								
					///									
					//.									
$ \rangle / $				- 9 -	//									
	S 16	M	3-4-4-5						4.0					
	10	20	(8)		///									
$/ \setminus$				-10-	///									
						10.5 End of Boring at	10.5 ft							
						Lind of borning at								
						WATER LEVEL & CAVE-II								141000
			OUNTERED			<u> </u>	CAVE IN DEPTH AT C			NMR				WET DRY WET
			L AT COMF			NMR resent the approximate boundary; gradual trans	CAVE - IN DEPTH AFT			NMR				WET DRY
NOTES						esent trie approximate boundary, gradual trans urement Recorded	naon between in-situ soli layers	, эпоин ве ехре	oicu.					

OF WISCONSING	WI E	ept. Kin	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID:	B2′
AUCDOT TO	Mad	ison	, WI 53704	-• !		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO:			1 of
WISDOT PR		wit:		 -	43	ONSULTANT: RILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT NO:			ORTHIN			LONGITUDE: EASTING:
						RVT				OORDIN	3408	10.456	604116.72
DATE STAR				7/28/	14	REW CHIEF: OGGED BY:	DRILL RIG: HOLE SIZE:			ORIZON			VERTICAL DATUM:
COUNTY:	I LLTLD.			7/28/	14	RVT OG QC BY:	HAMMER TYPE:	4	in			VATION:	VERTICAL DATOW.
STATION			lilwaukee/ (ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:		4 SECTION:		JRFACE			N/
	1160+0	OSB		40	<u>Lt </u>								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes Notes
					2 A	5.5" HMA 0.5 8" PCC						H	SA
		4		1 -		1.1 7" BASE COURSE		GW					
SS 1	13	M	3-4-4-5 (8)	- 2 -		1.7 SILTY CLAY, light brown & gray, moi organics, very stiff	st, trace sand & gravel &		3.75				
				- 3 -				CL					
		17		3		3.5 SILTY CLAY, brown, moist, trace sar	d & gravel, hard		-				
SS 2	20	М	3-5-11-13 (16)	- 4 -					4.5				
				- 5-									
				- 6 -				CL					
				- 7-									
				8 -		8.0 SILTY CLAY, gray, moist, trace sand	& gravel, stiff		_				
SS 3	17	M 20	4-3-5-8 (8)	- 9 -				CL	2.0				
				10		10.0 End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-I		7					
			NINTEDED.	DLIDIN	NG D		CAVE - IN DEPTH AT COM		NI:	NMR			WET [DRY [
<u> </u>	/ATER	ENCC	JUNIERED	DUKII	10 D	INILLINO. INIVIT	ONE INDEFINATION		/IN.	INIVIR			רטע נ

OFF SCONSIN	WI [3501	Dept. 2 Kin	of Transp Isman Blvo	ortati d	on	WISDOT PROJECT ID:	1229-04-01					G ID	1	B22
AUCD OF TRANS	Mad	lison	, WI 53704	j.	1	WISDOT STRUCTURE ID:	CONCULTANT DDO 1507 NO			AGE NO:			LONGITUDE	1 of 1
	ROJECT NA	AME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			LONGITUDE:	
ROADWAY						RILLING CONTRACTOR: RVT REW CHIEF:	DRILLING CONTRACTOR PROJECT NO: DRILL RIG:			ORTHIN	3413	809.982	EASTING: 60	4269.562
DATE STA				9/04/	14	OGGED BY:	HOLE SIZE:			ORIZON			VERTICAL DA	TUM:
COUNTY:				9/04/	14	OG OC BY:	HAMMER TYPE:	4	in			VATION:	VERTION E BY	
STATION			lilwaukee/		ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:		SECTION:		JRFACE				NA
	1165+0	ONB		60	Rt									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	otes
						5.5" HMA						H	SA	
					P 6	0.5 11" PCC								
				1	A 4 4	4								
					A 4	1.4								
						6" BASE COURSE		GW						
\ /		24		- 2 -		1.9 SILTY CLAY, dark brown, moist, trace	e sand, trace organics, very							
∭ ss		M	2-4-5-7	-		stiff			4.0					
	8	4	(9)						4.0					
/\				- 3 -										
/ /														
•														
				4 -										
1														
N/I														
	5	M	5-7-9-11	<u> </u>					4.5					
2		18	(16)											
/ \														
/ \				6 -				CL						
				- 7 -										
				8 -										
\														
\/														
	15	М	3-7-9-12	- 9 -					4.5	34	19			
		18	(16)			A-6 Moist, no organics, hard	(3)		1.0	•				
/ \						iviolst, no organics, naru								
				10		10.0								
				. •		End of Boring at	1υ.υ π.							
						WATER LEVEL & CAVE-I	N OBSERVATION DATA							
_	VATER	ENC	OUNTERED	DURII	NG D	RILLING: NMR	CAVE - IN DEPTH AT COMP	PLETIO	N:	NMR				WET DRY
_			L AT COMP			NMR	CAVE - IN DEPTH AFTER 0			NMR				WET DRY
NOTES						resent the approximate boundary; gradual trans urement Recorded	ition between in-situ soil layers shoul	ld be exp	ected.					

OF WISCONS	w. W	Dept	. of Transp nsman Blv	ortatio	n	WISDOT PROJECT ID:	1229-04-01					G IE):	B23
OFTRM	M	adisor	ı, WI 53704	Ĭ.		WISDOT STRUCTURE ID:				AGE NO				1 of 1
	PROJEC1	NAME:		1-4	13	ONSULTANT:	CONSULTANT PROJECT NO:	10		ATITUDE				ONGITUDE:
	AY NAME:					RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT N	NO:		ORTHIN	3413	311.72	27	ASTING: 604137.421
	TARTED:			7/17/1	4	REW CHIEF:	DRILL RIG:				IATE SY		I. a	
	OMPLETE): 		7/17/1	4	OGGED BY:	HOLE SIZE:	4	in		ITAL DA			ERTICAL DATUM:
COUNTY		N	/lilwaukee/	Ozauke	e	OG QC BY: C. Wierzchowski OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/4	1 1/4 SECTION:			ELEVA	VATION:	:	N/A
	1165	+00SB		40	Lt									
SAMPLE TYPE	RECOVERY (in)	(RQD) Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	I M 14	3-6-7-8 (13)	- 1 -		0.1 1" TOPSOIL SILTY CLAY, gray/brown & dark brow sand & organics, hard	n mottled, moist, some	CL	4.5				HSA	
				3		3.0 CLAYEY SILT, brown, moist, trace sa								
	SS 24	1 M 19	6-9-13-15 (22)	- 4		A-4	(0)	CL-ML	2.5	21	5			
				- 6 -										
				+ 8 -		8.0 SILTY CLAY, brown, moist, trace gra	vel, hard							
	SS 24	1 M 19	7-11-11-18 (22)	3_ 9 -		10.0		CL	4.5					
- 1	1	1	1	10		End of Boring at	10.0 ft.				<u> </u>			1
						MATERIEVE A CAVE	N OBSERVATION DA	ΤΛ						
<u>V</u>	\\\\\	B ENC	OUNTERED	י חוופוגו	IG D	WATER LEVEL & CAVE-II RILLING: NMR 超	CAVE - IN DEPTH AT CO		Ni.	NMR				WET [
<u>∡</u>			EL AT COMF			NMR III.	CAVE - IN DEPTH AT CO			NMR				WET DRY DRY DRY DRY
						resent the approximate boundary; gradual trans				NIVIK				DRY
NOIE						resent the approximate boundary; gradual trans urement Recorded	nuon petween in-situ soli läyers s	поин ве ехр	ecied.					

OED!	CONSIN.	WI [ept.	of Transp sman Blv	ortati	on	WISDO	OT PROJECT ID:		1229-04-0	1				G ID	:	B24
HIMERY	OF TRANSPOR	Mad DJECT NA	ison	, WI 53704	ļ			OT STRUCTURE ID:		CONCULTANT DESCRIPTION	\.		ATITUD			1	1 of 1
	DWAY N		uviE:		Į.	-43	CONSULTANT: DRILLING CONTRA	ACTOR:		CONSULTANT PROJECT NO			ATITUD				ONGITUDE:
								ACTOR:	RVT	DRILLING CONTRACTOR PR	ROJECT NO:		COORDIN	3418	809.95	6	604289.933
	E START				9/04/	/14	CREW CHIEF:			DRILL RIG: HOLE SIZE:			HORIZON			\/F	ERTICAL DATUM:
	INTY:	LETED.			9/04/	/14	LOG QC BY:		RVT	HAMMER TYPE:		4 in			VATION:	V	ENTICAL DATOW.
	TION			lilwaukee/		ee	TOWNSHIP:	C. Wie	rzchowski SECTION:	1/4 SECTION:	1/4 1/4 SECTIO		URFACE				N/A
	1	170+0	ONB		50	Rt						\perp					
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	/ Rock Des Geological (ajor Unit / (Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
			_				5.5" HM 0.5	1A								ISA	
			5					SE COURSE									
					- 1												
											GW						
Ь					2 -	1	1.9 SILTY (CLAY, brown, mo	ist, trace san	d & gravel, very stiff							
1																	
I X I	SS 1	12	M 17	2-3-4-5 (7)	- 3	//						3.5					
$ \Lambda $	'		''	(')													
$/ \setminus$																	
					4	1/											
1							1										
\mathbb{M}																	
V I	SS 2	15	M	3-4-6-8	- 5-	//						4.0					
$ \Lambda $	2		17	(10)													
$/ \setminus$																	
					6						CL						
					7												
L.					8 -												
M							Hard										
\backslash / \mid						//											
1	SS	15	М	3-5-7-7	- 9	<u>//</u>						4.5					
$ \Lambda $	3	10	17	(12)	9							4.5					
$/ \setminus$																	
							10.0										
					10			End	of Boring at	10.0 ft.							
										N OBSERVATION							
Ā				DUNTERED				NMR		CAVE - IN DEPTH			NMR				WET DRY WET
Ā				L AT COMF			NMR	rovimata harrede -	r gradual trans	CAVE - IN DEPTH			NMR				WET DRY
NC							present the appi surement Recoi		r, graduai trans	sition between in-situ soil i	ayers snould be e	xpected					

OF WISCONSIN	WI [ept.	of Transp Isman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01			RIN	G ID):	B25
THE OF TRANSPO	Mad	lison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:	I a a u a u a u a a a a a a a a a a a a		PAGE I				1 of 1
	ROJECT NA	ME:		1-4	 3	ONSULTANT:	CONSULTANT PROJECT NO:		LATITU				NGITUDE:
ROADWAY						RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT	NO:	NORTI	349	793.83	5 EA	STING: 604078.194
DATE COL				7/17/1	4	REW CHIEF:	DRILL RIG: HOLE SIZE:			ONTAL DA		1	ERTICAL DATUM:
DATE CON	IPLETED:			7/17/1	4	DGGED BY: RVT DG QC BY:	HAMMER TYPE:	4 in		MBED ELE		VE	:RTICAL DATUM:
STATION		N	lilwaukee/	Ozauke	e	C. Wierzchowski DWNSHIP: RANGE: SECTION:		1/4 1/4 SECTION:		CE ELEVA			NA
	1250+0	0NB	1	70 I	₹t				1				
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	(tsf)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	11	M 15	6-7-8-9 (15)	- 1 -		0.2 2" TOPSOIL SILTY CLAY, brown & dark brown, m very stiff	oist, trace sand & organics,	2	.5			HSA	
SS 2	21	M 17	10-10-14- 18 (24)	- 4 -		No organics, hard		4 CL	.5				
				- 6 - 3 - 7 - 3									
SS 3	22	M 19	8-7-10-13 (17)	- 9 -		10.0		4	.5				
				10		End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-I	N ORSERVATION DA	ΔΤΔ					
<u></u> ∨	VATER	ENC	OUNTERED	DURIN	G D		CAVE - IN DEPTH AT C		NM	 R			WET DRY
			L AT COMF			NMR	CAVE - IN DEPTH AFTE		NM				DRY WET DRY
						resent the approximate boundary; gradual trans	L			-			DKY [
						urement Recorded							

OFF OFFICE ONSI,	WII 1 35∩	Dept.	of Transpose	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G ID):	B27
OFTRANS	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:		CONCULTANT DDG (TOT VO			AGE NO:			1.	1 of 1
	PROJECT N	AME:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT 110		ATITUDE				ONGITUDE:
ROADWA						PRILLING CONTRACTOR:	Τ_	DRILLING CONTRACTOR PROJEC	CT NO:		IORTHIN	3554	79.73	39 E	ASTING: 602157.518
DATE ST				7/15/	14	CREW CHIEF:		DRILL RIG:			OORDIN			1	
	MPLETED:			7/15/	14	OGGED BY:	Τ_	HOLE SIZE:	4	in	IORIZON				ERTICAL DATUM:
COUNTY		N	lilwaukee/	Ozauk	ee	OG QC BY: C. Wierzchows OWNSHIP: RANGE: SECTION	ki N:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		URFACE		VATION:		N/
JIAHON	1310+5	0NB	OFFSET	100	Rt 🗀	OWNSTIII . IVANGE. SECTION		174 SECTION.	174 174 SECTION.		T ACE	LLLVA	I ION.		1
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	I C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1		M 19	2-4-6-8 (10)	- 1 -		5" TOPSOIL 0.4 SILTY CLAY, brown & dark brown, some organics, hard	mo	pist, trace sand & gravel,	CL	4.5				HSA	
SS 2		M 16	6-10-15-16 (25)	- 3 - 6- 4 -		3.0 SILTY CLAY, brown, moist, trace so	and	d, hard		4.5					
				- 6 - - 7 -		Trace gravel, very stiff			CL						
S: 3		M 18	7-9-14-17 (23)	- 9 -		10.0				3.75					
				10		End of Boring	at	10.0 ft.							
						\\\ATED \(\) \(- 14	ALODGEDVATION D	\ATA						
\Box	\\/\T	ENIO		יחוחיי	JC 5	WATER LEVEL & CAVE				NI.	NIN /ID				WET F
_			OUNTERED				₹ •	CAVE IN DEPTH AT			NMR				WET DRY DRY DRY DRY DRY
			L AT COMF				=	CAVE - IN DEPTH AF			NMR				DRY 🗌
NOTES						resent the approximate boundary; gradual tra urement Recorded	ans	ition between in-situ soil layei	rs should be exp	pected.					

. DEF	SCONSIN.	WI [Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				RIN	G IE): _	B29
MATTHER	OF TRANSPOR	Mac	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:					AGE NO				1 of 1
		OJECT NA	AME:		Į-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUD.				ONGITUDE:
	ADWAY N						DRILLING CONTRACTOR:	RVT	DRILLING CONTRACTOR PROJEC	T NO:		NORTHIN	3573	304.2°	18	ASTING: 602259.364
	TE STAR				9/04/	14	CREW CHIEF:		DRILL RIG:				NATE SY			
	TE COMP	LETED:			9/04/	14	LOGGED BY:	RVT	HOLE SIZE:		4 in		NTAL DA			ERTICAL DATUM:
	UNTY:		M	lilwaukee/	Ozauk	ee	.og QC BY: C. Wierzcho	wski	HAMMER TYPE:				BED ELE		l:	NA
STA	ATION 1	329+0	0SB	OFFSET	0 5	SB	FOWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SECTIO	N: S	SURFACE	E ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rocl and Geolog Each Major U	gical C	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
			4		- 1 -		A	ce san	d, very stiff	GV	1				HS#	A
	SS 1	10	M 14	3-4-5-5 (9)	- 2 - - 3 -						2.5					
	SS 2	12	M 19	3-3-4-6 (7)	- 4 -					CL	3.5					
					- 6 - - 7 -											
4-01.GPJ 1-43 12/10/14	Γ				- 8 -		8.5 SILTY CLAY, gray/brown, mois	at ver	stiff							
COUNTESMIII/WALKEEI/43/1229-04-01 - 1-43 - SILVER SPRING TO STH 60/GINT/1229-04-01/GPJ 1-43 1/2/10/14	SS 3	13	M 21	2-3-5-6 (8)	- 9 - 10-		10.0	, voi y		CL	3.0					
01 - F43	1						End of Bor	ring at	10.5 ft.							
229-04-(
EN-43/1							WATER LEVEL & CA	VE-II	N OBSERVATION DA	ATA						
Z WAUKE	_	ATER	ENCC	DUNTERED	DURII	NG D	PRILLING: NMR	₽	CAVE - IN DEPTH AT O	COMPLET	ON:	NMR				WET DRY
Z LESWIII	<u>_</u> w	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	<u> </u>	CAVE - IN DEPTH AFT	ER 0 HOU	RS:	NMR				WET DRY
NOON:							resent the approximate boundary; gradu surement Recorded	al trans	sition between in-situ soil layers	s should be e	xpected	!				

OFF WISCO	NSIN. 30	WI E	ept.	of Transp sman Blv	ortati	on	WISD	OT PROJECT ID	D:		1	229-04-0 [°]	1			BOF		G II) :	B30
HTM OF THE	RANSON	Mad	ison	, WI 53704	۷. إ			OT STRUCTUR	E ID:							AGE NO:				1 of 1
		JECT NA	ME:		Į-	-43	CONSULTANT:					NT PROJECT NO				ATITUDE				ONGITUDE:
	WAY N						DRILLING CONTR	ACTOR:		RVT		ONTRACTOR PR	ROJECT NO:	:		ORTHIN	3582	298.5	99 E4	ASTING: 602432.832
	STARTI				7/28/	/14	CREW CHIEF:				DRILL RIG:					OORDIN			,	
	COMPL	ETED:			7/28/	/14	LOGGED BY:			RVT	HOLE SIZE:			4	in	ORIZON				ERTICAL DATUM:
COUN			M	lilwaukee/	Ozauk	ee	LOG QC BY:	C.	. Wierzcho	owski	HAMMER T	/PE: 1/4 SECTION:	1/4.1/	4 SECTION		TREAME			l:	NA
SIAIR	13	339+0	NB	OI I SEI	0 1	NB	TOWNSHII :	IVANOL.	J.	CTION.		174 SECTION.	174 17	4 SECTION	. 3'	T TOTAL	LLLVA	l lon.	l	
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		а	Soil / Roc and Geolog ch Major U	gical C	Origin for	ts		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						P 1	3.5" HI 0.3													
\mathbb{N}						A 4 4	à	,,												
 	SS 1	15	7 M	3-4-4-5	- 1		6" BAS	SE COURSE						GW	4.5				HSA	
$ \Lambda $	'			(8)			1.3	CLAV dorle	aray/brayes	maiat	little send	& gravel, har	d to	OW	1					
$/ \setminus$			11				very st		gray/brown,	, moist,	iille sano	& gravei, nai	u to							
					2 -															
					3															
$\backslash / $			19																	
IVI .	SS			5-4-5-6																
M	2	11	M	(9)	- 4	1//									3.75					
$/ \setminus$																				
$\langle \cdot \rangle$																				
l '					 5-	1//	1													
							1													
														CL						
					- 6	1//														
					- 7	1//														
					8	1//														
1																				
	ss	24	М	3-4-7-8	- 9										4.0					
	3	∠+	18	(11)		1/	1								7.0					
$/ \setminus$																				
/ \							10.0													
					10		-		End of Bo	oring at	10.0 ft.				•	-		•	•	
								TER LEV	'EL & CA			RVATION								
$\frac{\nabla}{2}$				DUNTERED				NMR				IN DEPTH				NMR				WET DRY
Ā				L AT COMF			NMR					IN DEPTH				NMR				WET DRY
NOT				lines between countered; NN					undary; gradu	uai trans	ition betwe	en ın-situ soil l	ayers sho	ould be ex	pected.					

OF CONSIN	WI I	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE):	B31
THE OF TRANSPORT	Mac	lison	, WI 53704	ў. Į		WISDOT STRUCTURE ID:	Loover and the second			AGE NO:				1 of '
WISDOT PF		AME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:	OT 110		ATITUDE				ONGITUDE:
ROADWAY						ORILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT	UT NO:			3583	395.80)7 EA	ASTING: 602373.9
DATE STAF				9/04/	14	CREW CHIEF: OGGED BY:	HOLE SIZE:			OORDIN			l vr	ERTICAL DATUM:
COUNTY:	PLETED:			9/04/	14	.OG QC BY:	HAMMER TYPE:	4	in	TREAMB				ERTICAL DATUM:
STATION		M	lilwaukee/		ee	C. Wierzchowski	1/4 SECTION:	1/4 1/4 SECTION:		URFACE			•	N/
	1340+0	0SB		40	Lt									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						4" HMA							HSA	
						0.3								
					4 A A	8" PCC								
					2 A	4								
		4		_ 1 -	A A A	1.0								
		-		'	. 6	5" BASE COURSE		GW						
						1.4		OW						
						SILTY CLAY, brown, moist, trace gra	vel, hard							
				2 -										
V														
SS 1	10	M 17	7-5-5-7 (10)	- 3 -	1//				4.5					
Al :		''	(10)											
\mathbb{N}														
								CL						
				4 -	$\frac{1}{2}$									
П														
\														
V														
SS 2	12	M 17	4-5-5-8 (10)	- 5-	1//				4.5					
		''	(10)											
\mathbb{N}														
				6		6.0 End of Boring a	t 6 0 ft							
						End of boiling a	. G.O II.							
	/ATCC	ENIO	טו ועודרטרט	י רו וריי	NC D	WATER LEVEL & CAVE-I			NI.	NIME				WET [
_			DUNTERED L AT COMF			PRILLING: NMR NMR ■	CAVE - IN DEPTH AT			NMR NMR				WET [DRY [WET [DRY [
						resent the approximate boundary; gradual tran								DRY [
						surement Recorded								

Wisconsin 30	WI [ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01					G ID):	B32
WISDOT PRO	Mad	lison	, WI 53704	ŭ. Į		WISDOT STRUCTURE ID:	CONCILITANT PRO 1727 112			AGE NO:				1 of 1
ROADWAYN		AME:		I-	43	CONSULTANT: DRILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJE	CT NO:		ATITUDE				ONGITUDE: ASTING:
DATE START						RV CREW CHIEF:	DRILL RIG:			COORDIN	3585	5 95.78 STEM:	33 "	602473.847
DATE COMP				7/28/	14	LOGGED BY:	HOLE SIZE:			IORIZON			VE	ERTICAL DATUM:
COUNTY:				7/28/		OG QC BY:	HAMMER TYPE:	4	in s	TREAMB	ED ELE	VATION:		
STATION	24210		OFFSET		Т	C. Wierzchowsk FOWNSHIP: RANGE: SECTION		1/4 1/4 SECTION	: S	URFACE	ELEVA	TION:		NA
1	342+0	UND		<u> </u>	NB									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						3.5" HMA							HSA	
				- 1-		0.3 8" PCC 1.0 6" BASE COURSE 1.5 SILTY CLAY, brown & gray mottled,	moist, trace sand & gravel,	GW						
SS 1	11	M 23	4-4-4 (8)	- 2 -		hard to very stiff		CL	4.5					
SS 2	16	M 19	3-4-5-5 (9)	- 4 -		5.5			2.5					
		<u> </u>			<u> </u>	√5.5 End of Boring	at 5.5 ft.							1
						WATER LEVEL & CAVE-	IN OBSERVATION F)ΔΤΔ						
√ w	ATER	ENCC	DUNTERED	DURII	NG D				DN:	NMR				WET DRY
			L AT COMF			NMR .				NMR				DRY L WET C DRY C
NOTES: 1	1) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradual tra								5
✓ W.	ATER	LEVE cation	L AT COMF	PLETIO	N: es rep	ORILLING: NMR	CAVE - IN DEPTH AT	COMPLETIC	RS:	NMR				

## Add (2) Section Se	- OEPH	CONSIN.	WI [Dept.	of Transp	oortati	on	WIS	DOT PE	ROJECT ID):			1229-	04-01						G II	D :	В	33
Mark	MAIN	FTRANSTO	Mad	lison	, WI 53704	4 4				TRUCTURE	E ID:		Too.	CIII TANT DE C	VIECT NO							1.	1 o)f 1
Section Sec				AME:		Į-	43			OP-						IECT NO:								
Section Sect									IRACIO	OR:		RVT	'		CTOR PRO	JECT NO:				3588		94	602613.9	923
SS 15 M 3-4-5-5 15 M 3 -4-5-5 15 M						9/04/	14															- Iv	EDTICAL DATUM	
Mill Market Mill Market Marke			LETED:			9/04/	14					RVT	'				4	in					ERTICAL DATUM:	
1.345-00/18 1.00 R		TION			lilwaukee/	Ozauk	ee			C.	Wierz	chowski	HAIVI		TION:	1/4 1/4 5	SECTION					·.		NΑ
SS 8 M 2-3-4-4 SS 15 M 3-4-5-5	_	1	345+0	0NB		100	Rt																	
SS 8 M 2-3-4.4 (7) - 3 SILTY CLAY, brown, moist, trace sand, stiff to very stiff SS 8 M 2-3-4.4 (7) - 3 SILTY CLAY, brown, moist, trace sand, stiff to very stiff SS 8 M 2-3-4.4 (7) - 3 SILTY CLAY, brown, moist, trace sand, stiff to very stiff CL SS 8 M 4-5-6-7 9 A-6 (2) 2.2 31 17 WATER LEVEL & CAVE—IN OBSERVATION DATA WATER LEVEL & CAVE—IN OBSERVATION DATA WATER LEVEL & CAVE—IN OBSERVATION DATA WATER LEVEL & CAVE—IN DEPTH AT ECR HOURS: MAR WATER LEVEL AT COMPLETION: MAR MAR STIFF WATER LEVEL AT COMPLETION: MIRR SIZE CAVE—IN DEPTH AT ECR HOURS: MAR STIFF STIFF STIFF STIFF STIFF CAVE—IN DEPTH AT ECR HOURS: MAR STIFF ST	SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			a	nd Ge	ological (Origi	n for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
SS 8 M 2-3-4-4 (7) - 3 SILTY CLAY, brown, moist, trace sand, stiff to very stiff SS 15 M 3-4-5-5 (9) - 5								0.3														HSA		
SS 8 M 2-3-4-4 (7)				6			D D D	₹ 7.5" l	PCC															
SS 8 M 2-3-4-4							4 4																	
SS 8 M 2-3-4-4 SS 15 M 3-4-5-5 (9) - 5						1 -			SE C	OURSE							GW							
SS 15 M 3-4-5-5						_			/ CLA	Y, brown	n, mois	t, trace sar	nd, sti	ff to very sti	ff									
SS 15 M 3-4-5-5	N																							
1	\mathbb{N}					- 2																		
SS 15 M 3-4-5-5	V I		8	M	2-3-4-4													2.0						
SS 15 M 3.4-5-5 2.5	$ \Lambda $	1		17	(7)																			
2 19 19 (9) - 6 -	$/ \setminus$					- 3																		
2 19 19 (9) - 6 -																								
2 19 19 (9) - 6 -	1							1																
2 19 19 19 6	\mathbb{N}					4	1//																	
2 19 19 (9) - 6 -	W	SS	4.5	М	3-4-5-5			1										2.5						
Wet SS 8 M 4-5-6-7 9 A-6 (2) End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPL	$ \Lambda $	2	15	19	(9)													2.5						
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR WATER						- 5-	1//																	
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR WATER	$ \cdot $																							
Water Level & Cave-In Observation Data Cave-In Observation Data Cave-In Observation Data Cave-In Observation Indication Indicat																	CL							
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT						- 6																		
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET CAVE - IN DEPTH AT COMPLETION: NMR WET CAVE - IN DEPTH AT FIRE 0 HOURS: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																								
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET CAVE - IN DEPTH AT COMPLETION: NMR WET CAVE - IN DEPTH AT FIRE 0 HOURS: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.							1//																	
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET CAVE - IN DEPTH AT COMPLETION: NMR WET CAVE - IN DEPTH AT FIRE 0 HOURS: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR WET CAVE - IN DEPTH AFTER 0 HOURS: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						7	¥//																	
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						'	1//																	
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																								
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																								
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1					0		Wet																
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																								
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	V	SS		M	4-5-6-7						,	A-6 (2)												
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			8			9	1//					• • •						2.2	31	17				
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$/ \setminus$																							
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COM	$ \cdot $							10.0																
✓ WATER ENCOUNTERED DURING DRILLING: NMR ☑ CAVE - IN DEPTH AT COMPLETION: NMR NMR WET DRY ENCOUNTERED DURING DRILLING: NMR WET DRY ENCOUNTERED DRY ENCOU	Г		1			' 10	1//	· IU.U			End o	of Boring at	10.0	ft.			1						1	_
✓ WATER ENCOUNTERED DURING DRILLING: NMR ☑ CAVE - IN DEPTH AT COMPLETION: NMR NMR WET DRY ENCOUNTERED DURING DRILLING: NMR WET DRY ENCOUNTERED								\\/ \	TF	RIFV	FI &	CAVE	N O	BSFRV/	MOITA	ΠΑΤΔ								
WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	∇	. W	ATER	ENC	OUNTERED	DURI	NG D				X		_				PLETIC	DN:	NMR				WE	ET P
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.													+						NMR				WE DF	<u> </u>
2) NE = Not Encountered; NMR = No Measurement Recorded	_	TES: 1									ındary; g	gradual tran	sition	between in-s	situ soil lay	yers shoul	d be ex	pected.					_ _	

OEPW WESO	ONSIN.	WI [Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT	ID:	1229-04-01	_				G ID	:	B34
TATION OF	TRANSPOR	Mad DJECT NA	lison	, WI 53704	ļ		WISDOT STRUCTU	RE ID:	CONCULTANT DDG 1507 V			AGE NO:			l. c	1 of 1
	OT PRO		MVIE:		I-	43	CONSULTANT: DRILLING CONTRACTOR:		CONSULTANT PROJECT NO:	IECT NO:		ORTHIN				ONGITUDE:
								RVT	DRILLING CONTRACTOR PRO	JECT NO:			3588	394.11	3	602442.338
	START	LETED:			7/28/	14	CREW CHIEF: OGGED BY:		DRILL RIG: HOLE SIZE:			OORDIN			IVE	ERTICAL DATUM:
COU		LLTED.			7/28/	14	OG QC BY:	RVT	HAMMER TYPE:	4	n			VATION:		ENTICAL DATOW.
STAT	ION			lilwaukee/		ee	TOWNSHIP: RANGE	SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				NA
	1	345+0	0SB		40	Lt										
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E	Soil / Rock Des and Geological (ach Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							6.5" HMA							F	ISA	
						,-	0.5 9" BASE COURS	E								
					 - 1					GW						
M						•	1.3	wn to gray/brown m	oist, trace sand & gravel,							
\mathbb{N}			13				very stiff	wir to gray/brown, m	olot, trace saile a gravel,							
I V I	SS 1	14	М	3-2-5-7	- 2 -						3.0					
\mathbb{N}	ļ			(7)												
$/ \parallel$																
					<u> </u> 3 -		Hord									
1							Hard									
\mathbb{N}			16													
I V I	SS 2	12	M	5-4-5-8	- 4 -						4.5					
$ \Lambda $	2			(9)												
$/ \parallel$																
					<u> </u>											
										CL						
					- 6 -	1//										
					- 7											
						1/										
L,					8 -	¥//,	Very stiff									
M							very suii									
I X I	SS 3	22	M 17	3-4-5-5	- 9 -						2.25					
\mathbb{N}	3		17	(9)												
$/ \parallel$																
1					10		10.0	End of Boring at	10.0 ft							
								at	.5.0 10.							
									N OBSERVATION							
$\overline{\underline{V}}$	+			DUNTERED					CAVE - IN DEPTH A			NMR				WET DRY
Ā				L AT COMF			NMR		CAVE - IN DEPTH A			NMR				WET DRY
NO							resent the approximate be urement Recorded	ounaary; gradual trans	sition between in-situ soil lay	rer's snould be expe	ected.					

OEPs.	CONSIN.	WI [ept.	of Transp sman Blv	ortation	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE) :	B35
HIMERYO	FTRANSTO	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:	10-	IOUI TANT PROJECT			AGE NO			1.	1 of 1
		DJECT NA	MÉ:		I-	43	CONSULTANT:		NSULTANT PROJECT NO:	NT NO:		ATITUDI				ONGITUDE:
	DWAYN						PRILLING CONTRACTOR: RVT	Γ	LLING CONTRACTOR PROJEC	JI NU:		NORTHIN	3592	284.8	88 ^E	ASTING: 602536.649
	E START				7/28/	14	OGGED BY:		LL RIG: .E SIZE:			HORIZON			lv.	/ERTICAL DATUM:
	NTY:	LETED:			7/28/	14	OG QC BY:	Γ	IE SIZE. IMER TYPE:		4 in	TREAME				PERTICAL DATOM:
STAT			M	lilwaukee/	Ozauk	ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:	i	1/4 SECTION:	1/4 1/4 SECTIO		SURFACE				NA
OIX	1	349+0	0SB	OT GET	0.5	B	TOWIGE.	•	174 GEOTION.	III III GEOTIOI	,	T	I	1	ı	
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origi	in for	USCS / AASHTO	Strength Op	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		7" HMA 0.6 8" BASE COURSE 1.3 SILTY CLAY, brown, moist, trace sai	ind & c	oravel hard	GW					HSA	X
	SS 1	9	M 17	3-2-4-4 (6)	- 2 -		SILTY CLAY, BIOWI, HOISI, frace Sal	iliu & ç	graver, maru	CL	4.5					
	SS 2	15	M 15	4-5-6-7 (11)	- 4 -		5.3				4.8					
			<u> </u>		1		End of Boring a	at 5.5	ft.							
_							WATER LEVEL & CAVE-									=
∇				DUNTERED				.	AVE - IN DEPTH AT			NMR				WET DRY
Ā				L AT COMP			NMR	- 0,	AVE - IN DEPTH AFT			NMR				WET [DRY [
NO							resent the approximate boundary; gradual trar urement Recorded	nsition	between in-situ soil layer	s should be e	pectea	!				

OFF WISCON	SW. 30	WI D	ept. Kin	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	B36
WICCOTTRI	T PROJE	Madi	son	, WI 53704		1	WISDOT STRUCTURE ID:		CONCLITANT PROJECT NO			AGE NO:			li e	1 of 1
	T PROJE		viE:		l-	43	CONSULTANT: DRILLING CONTRACTOR:		CONSULTANT PROJECT NO:	NO.		ORTHIN				ONGITUDE:
							ORILLING CONTRACTOR: CREW CHIEF:	RVT	DRILLING CONTRACTOR PROJECT N	NO:			3593	89.41	8	602510.696
	TARTED				7/28/	14	OGGED BY:		DRILL RIG: HOLE SIZE:			OORDIN			VE	ERTICAL DATUM:
COUNT		TED.			7/28/	14	OG QC BY:	RVT	HAMMER TYPE:	4	in			VATION:	VE	ENTICAL DATOW.
STATIO	N			ilwaukee/		ee	C. Wierzchov	WSKI		1/4 SECTION:		JRFACE				NA
	135	50+00	SB		40	<u>Lt </u>										
SAMPLE TYPE	NOMBEK	KECOVEKY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							7" HMA 0.6							ı	ISA	
						: \	5" BASE COURSE			GW						
					1 -		1.0 SILTY CLAY, brown, moist, trace	e san	d & gravel, very stiff							
$\backslash /$																
\mathbb{V}																
	SS 1	13	M 18	1-2-4-5 (6)	- 2 -						3.25					
\mathbb{N}																
/ /																
\vdash					3 -		Hard									
\mathbb{N}																
V																
	SS 2	21	M 17	6-6-9-11 (15)	4 -						4.5					
$ \rangle $																
$V \setminus$																
1					- 5-											
										CL						
										CL						
					6 -											
					7 -											
					8 -		Very stiff									
Λ / Γ																
$ \cdot $																
	SS 3	24	M 20	4-5-6-7 (11)	- 9 -						3.75					
				(,												
$/ \setminus$																
_\					10	<u>//</u>	10.0 End of Bori	ina at	10.0 ft.							
							2.12 57 2011	J 44								
							WATER LEVEL & CA	_	N OBSERVATION DA	TA						
∇				DUNTERED				幺	CAVE - IN DEPTH AT CO			NMR				WET DRY
$\bar{\mathbf{\Lambda}}$				L AT COMP			NMR	_	CAVE - IN DEPTH AFTE			NMR				WET DRY
NOTE							resent the approximate boundary; gradua urement Recorded	al trans	sition between in-situ soil layers s	hould be exp	ected.					

0EP4	SCONSIN.	WI [Dept.	of Transp sman Blv	ortati	on	WISDO	T PROJECT ID:		1229-04-01					G ID	:	B37
HIMERS	OF TRANSPOR	Mad	lison	, WI 53704	ļ			T STRUCTURE ID:		CONCULTANT DDG 1507			AGE NO			1	1 of 1
		OJECT NA	MVIE:		I-	43	CONSULTANT:	CTOP-		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTRA	ICTUK:	RVT	DRILL BIC:	UJECT NO:		OORDIN	360	0279.8	2	ASTING: 602706.265
	E STAR				9/04/	14	LOGGED BY:			DRILL RIG:			OORDIN			VE	ERTICAL DATUM:
	JNTY:				9/04/	14	LOG QC BY:		RVT	HAMMER TYPE:	4	in			VATION:		
	TION			lilwaukee/		ee	TOWNSHIP:	C. Wierz	SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
	1	359+0	ONB		10	NB											
TOXE TICKNO	SAMPLE I TPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge	Rock Des eological C jor Unit / C	cription Drigin for Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						P A	4.5" HM/ 0.4 8" PCC	A								ISA	
						7 A A	4										
			5		1		ි 1.0 5.5" BAS	SE COURSE			CW						
Н					-		1.5 SILTY C	CLAY brown/ grav	ish brown n	noist, trace sand, very st	GW						
$\backslash /$					- 2 -		O.E.T. G	E (1, blom# glay	ion brown, n	noist, trade same, very st							
M																	
X	SS 1	14	17	3-4-5-5 (9)								4.0					
					- 3 -												
$V \setminus$																	
					1		Hard										
					- 4												
\mathbb{V}	SS	45	M	3-4-5-6													
\mathbb{N}	2	15	17	(9)								4.5					
\mathbb{N}					- 5-												
/ \																	
											CL						
					- 6												
							1										
					_		1										
					- 7 -												
						//											
Ĺ.,					8 -												
1							Gray, ve	ery stiff									
M																	
M	SS 3	18	M 20	3-3-4-5 (7)	- 9 -							3.0					
$ \Lambda $	3		20	(1)													
$/ \setminus$																	
Ш					10	<u> </u>	10.0	End o	of Boring at	10.0 ft.			1				
_	7 .									N OBSERVATION							MET -
<u>⊿</u>	_			DUNTERED				NMR		CAVE IN DEPTH			NMR				WET DRY WET DRY DRY
_				L AT COMF			NMR present the appro	oximate boundarv		CAVE - IN DEPTH A			NMR				DRY 🗍
Ĺ							surement Record		g. aaaan nans		L, S. O GIOGIA DE EXP						

OEP,	SCONSIN 35	WI E	ept.	of Transp sman Blve	ortati	on	WISDOT PROJECT ID:	1229-04-01			3OF		G IE):	SR1
HTTMER	OF TRANS	Mad DJECT NA	ison	, WI 53704	J. 		WISDOT STRUCTURE ID:	CONICIII TANT DDO IFOT			AGE NO:			1.	1 of 1
	ADWAY N		ME:		J-	43	CONSULTANT: ORILLING CONTRACTOR:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR: RV7 CREW CHIEF:	DRILLING CONTRACTOR PROJECT NO: DRILL RIG:			ORTHIN	3335	04.77	71	605063.015
	TE COMP				7/22/	14	OGGED BY:	HOLE SIZE:			ORIZON			Ιν	ERTICAL DATUM:
	UNTY:	LLILD.			7/22/	14	RVT	HAMMER TYPE:	4	in	FREAMB				ENTICAL DATOW.
	ATION			ilwaukee/		ee T	C. Wierzchowsk OWNSHIP: RANGE: SECTION:		SECTION:		JRFACE				NA
-		108+59	PW		29	<u>Lt </u>									
1	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
			8		- 1	A P A P A P A P A P A P A P A P A P A P	3.5" HMA 0.3 7" PCC 0.9 4" BASE COURSE		GW	-				HSA	
	SS 1	15	18 M	2-3-5-6 (8)	- 2		1.2 SILTY CLAY, brown mottled, moist, stiff to hard	race sand & gravel, very	GW	4.0					
229-04-01 GPJ 1-43 12/10/14	SS 2	13	19 M	11-12-9 (21)	- 4				CL	4.5					
COUNTESMILWALMEE'V-43122B-04-01 - 1-43 - SILVER SPRING TO STH 60/GINTV122B-04-01 GPJ 1-43 1/2/10/14	7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ATED	ENIC	NI INTERES	5		End of Boring a WATER LEVEL & CAVE-	N OBSERVATION DATA	DI ETIC		NIMP				WET F
SWIILWAUK	_			DUNTERED L AT COMF			RILLING: NMR NMR	CAVE - IN DEPTH AT COMP			NMR NMR				WET DRY DRY DRY DRY DRY
VNTIES							resent the approximate boundary; gradual train				NIVIT				DRY 🗆
00:5							urement Recorded		0,4						

OEP,	SCONSIN.	WI [ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D:	SR2
HIMERA	OF TRANS	Mad	ison	, WI 53704	4. 4		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	WE:		Į-	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT NO:			ATITUDE				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR: RV CREW CHIEF:	π	DRILLING CONTRACTOR PROJECT	or NO:			ORTHIN	3340	005.1	13	605046.209
	E COMF				7/22/	14	LOGGED BY:		HOLE SIZE:				ORIZON			- Iv	/ERTICAL DATUM:
	JNTY:				7/22/	14	OG QC BY:		HAMMER TYPE:		4	in	TREAME				
	TION			lilwaukee/		ee	C. Wierzchowski FOWNSHIP: RANGE: SECTION		1/4 SECTION:	1/4 1/4 SECTI	ON:		URFACE				NA
-		113+0	PW		20	Lt											<u> </u>
DAMPI DI TAND	SAMPLE I TPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	ıl C	Origin for	CTHORY SOSI		Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							4.5" HMA									HSA	X
							0.4 6.5" PCC										
			5				0.9 3" BASE COURSE										
					† 1		1.2			G'	W						
			10				SILTY SAND, dark brown, moist, wi	/itn	gravei & lean clay, loose,								
	SS 1	7	М	4-3-4-3 (7)	- 2					S	М						
					3												
	SS 2		17 M	4-6-6-4 (12)	- 4		SANDY CLAY, dark brown, moist, v	witl	h gravel, very stiff, FILL			3.5					
										S	С						
		_			5-												
_		<u> </u>				<i>Y//</i>	5.5 End of Boring	at	5.5 ft.					<u> </u>		1	
							WATER LEVEL & CAVE										
Ā	_			DUNTERED				=	CAVE - IN DEPTH AT				NMR				WET DRY
Ā				L AT COMF			-=		CAVE - IN DEPTH AFT				NMR				WET DRY
NC							resent the approximate boundary; gradual tra surement Recorded	ans	sition between in-situ soil layer	s should be	ехр	ected.					

430 ·	SCONSIN.	WI [ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE) :	SR3
HIMES	OF TRANSPOR	Mad	ison	, WI 53704	۷. ا		WISDOT STRUCTURE ID:	Tooligi Talit and the second			AGE NO:			1.	1 of 1
		OJECT NA	ME:		Į.	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR: RVT CREW CHIEF:	DRILLING CONTRACTOR PROJECT NO			OORDIN	3345	504.63	36 E	ASTING: 605079.397
	E COMF				7/22/	14	ORGED BY:	HOLE SIZE:			OORDIN			- Iv	/ERTICAL DATUM:
	JNTY:	LETED:			7/22/	14	.OG QC BY:	HAMMER TYPE:	4	in	TREAMB				PERTICAL DATOM:
	TION			lilwaukee/	Ozauk	ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION:		/4 SECTION		URFACE			li.	NA
017	. IIOI	118+0	PW	OTT GET	54	Lt	OWNORM: TOWOL.	174 DESTION: 174 T	I OLOTION	· °	ON 710L	LLLVA	I IOIN.	ı	_
T 100 4 4 0 0	SAMPLE ITE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						4 4 4 4	3" HMA 0.3 7" PCC							HSA	A
			6		+ 1 -		0.8 4" BASE COURSE		GW						
						•	1.2 SILTY CLAY, dark brown, moist, little	sand & gravel yery stiff							
			22				FILL	Saila & graves, very Sail,							
	SS 1	9	M	2-3-2-3 (5)	- 2				CL	2.5					
			19		+ 3		3.5 SILTY CLAY, brown, moist, trace sar	nd & gravel, very stiff							
	SS 2	12	М	2-4-9-9 (13)	- 4		SILTI CLAT, DIOWI, MOSE, Hace Sal	u a graver, very sun		4.0					
					- 5-				CL						
							F F								
				1	1	1//	∫5.5 End of Boring a	t 5.5 ft.				<u> </u>		<u> </u>	
							WATER LEVEL & CAVE-I	N ORSERVATION DAT	Δ						
Ā	7 w	ATER	ENC	DUNTERED	DURI	NG D		CAVE - IN DEPTH AT CO		DN:	NMR				WET DRY
7	_			L AT COMF			NMR I	CAVE - IN DEPTH AFTER			NMR				DRY WET DRY
	OTES:	1) Stratifi	cation	lines between	soil typ	es rep	resent the approximate boundary; gradual tran								DRT [
Ľ							surement Recorded								

off Wiscov	y son	WI E	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01					G IE):	SR4
WICCO	AND TO DO	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:		CONCILITANT DECISET NO.			AGE NO			1.	1 of 1
ROADV		JECT NA	IVIE:		I-	43	CONSULTANT: DRILLING CONTRACTOR:		CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT NO:			ORTHIN				ONGITUDE: ASTING:
							CREW CHIEF:	Τ	DRILLING CONTRACTOR PROJECT NO:			OORDIN	3350	002.78	34	605012.672
DATE S					7/22/	14	LOGGED BY:		HOLE SIZE:			ORIZON			Ιν	ERTICAL DATUM:
COUNT					7/22/	14	OG OC BY:		HAMMER TYPE:	4	ŀ in │		WG	S 198	34	MSL
STATIO	N N			lilwaukee/		ee	C. Wierzchows	ki N:		4 SECTION		URFACE				NA
		22+05	PW		12	Rt										
SAMPLE TYPE	NOMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	I C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						P &	6" HMA 0.5 6" PCC								HSA	
					1 -	. 5	1.0 6" BASE COURSE			GW						
	SS 1	12	19 M 5	2-3-5-5 (8)	- 2 -		SILTY CLAY, brown, moist, trace s POSSIBLE FILL	and	d & gravel, very stiff,		3.5					
					3 -					CL						
	SS 2	17	16 M	5-5-9-12 (14)	- 4 -		3.5 SILTY CLAY, brown mottled, moist	, tra	ace gravel, hard		4.5					
					- 5-											
					- 7-					CL						
	SS 3	24	M 19	5-7-10-10 (17)	- 8 - - 9 -						4.5					
					10		10.0 End of Boring	at 1	10.0 ft.							
							\A/A_TED. = \III = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									
$\overline{\Box}$	1611	TED:	- 100	T=====			WATER LEVEL & CAVE									WET F
∡				DUNTERED				_	CAVE IN DEPTH AFTER			NMR				WET DRY WET DRY DRY
				L AT COMF			NMR	ans	CAVE - IN DEPTH AFTER			NMR				DRY 🗎
NOTE							present the approximate boundary; gradual tra surement Recorded	ans	ılıorı betweeri in-situ soli layers sho	ию ре ех	pected.					

WISC	ONSIN.	WI [Dept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01			BO		G II	D:	SR5
HATTER OF	TRANSTO	Mac	lison	isman bivo i, WI 53704	u. !		WISDOT STRUCTURE ID:					AGE NO				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT 110		ATITUDI				ONGITUDE:
	WAY N						DRILLING CONTRACTOR:	RVT	DRILLING CONTRACTOR PROJE	CT NO:		NORTHIN	3355	504.8	83	EASTING: 605031.919
	START	TED: LETED:			7/17/	14	CREW CHIEF:		DRILL RIG: HOLE SIZE:			COORDIN			1.	/EDTICAL DATUS:
		LETED:			7/17/	14	OGGED BY:	RVT		4	l in					/ERTICAL DATUM:
COUN			N	lilwaukee/	Ozauk	ee	OG QC BY: C. Wierz OWNSHIP: RANGE:	section:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION		STREAME			N:	N/A
SIAII	ion	128+0	PW	OFFSET	15	Rt	OWNSHIF. RANGE.	SECTION.	1/4 SECTION.	1/4 1/4 SECTION	. 3	I	LLEVA	TION.		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ge	Rock Des eological (jor Unit / (cription Origin for Comments	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	15	M 17	2-4-3-3 (7)	- 1 -		0.5	moist, trace	e sand, some organics, very	y	3.0				HS#	A
					- 2 -		Very stiff to hard, no organ	nics		CL						
	SS 2	20	M 16	8-15-12-19 (27)) - 4 -						4.5					
\vdash					5	<i>V/</i>	5.0 End (of Boring at	5.0 ft.						1	
	T	A TT=		O. INITES ==	D. 15.				N OBSERVATION D							WET F
$\frac{\nabla}{\nabla}$	+			OUNTERED					CAVE IN DEPTH AT			NMR				WET DRY WET
<u>Ā</u>				L AT COMF			NMR	aredual trans	CAVE - IN DEPTH AF			NMR				WET [
NO							resent the approximate boundary; g urement Recorded	graduai trans	ธเนอก petween in-situ soil layei	rs snould be ex	pected					

ROADWAY	Mad ROJECT NA	lison	sman Blvd , WI 53704	u. I									
ROADWAY	ROJECT NA		,			WISDOT STRUCTURE ID:				E NO:			1 of 1
		AME:		I-4	3 📗	ONSULTANT:	CONSULTANT PROJECT NO:			TUDE:			ONGITUDE:
						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJ	ECT NO:		THING: 336	000.57	'8 ^{E/}	ASTING: 604974.008
DATE STAF				7/17/1	4	REW CHIEF:	DRILL RIG:			RDINATE S		I. ee	
DATE COM	IPLETED:			7/17/1	4	DGGED BY: RVT DG QC BY:	HOLE SIZE: HAMMER TYPE:	4 in		IZONTAL D			ERTICAL DATUM:
STATION	122±0		OFFSET		e T	C. Wierzchowski DWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		FACE ELEV			NA NA
	132+9			1	0				1				
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological 0 Each Major Unit / 0	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%) Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	11	M 19	3-3-3-3 (6)	1 1		5" TOPSOIL 0.4 SILTY CLAY, brown, moist, trace san hard	d & organics, very stiff to	3	.0			HSA	
SS 2	18	M 16	4-12-9-19 (21)	- 4		No organics, very stiff to hard		4 CL	5				
				- 6									
SS 3	24	M 17	6-14-11-16 (25)	9		10.0		4	5				
				10		End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-II	N ORSERVATION I	<u></u>					
<u> </u>	VATER	ENC	DUNTERED	DURIN	G DI		CAVE - IN DEPTH AT		NI	MR			WET DRY
			L AT COMF			NMR	CAVE - IN DEPTH AF			MR			DRY C WET C DRY C
						resent the approximate boundary; gradual trans							DRY L

90 PE	SCONSIN.	WI [Dept.	of Transp	ortati	on	WISDO	OT PROJECT ID:		1	229-04-01				3OF	RIN	G ID):	SR7
MATINES	OFTRANSPOR	Mad	lison	, WI 53704	u. 1			OT STRUCTURE ID:											1 of 1
			ME:		l-	43													
		DWAY NAME: DWAY NAME: DRILLING CONTRACTOR: RVT RVT RVT DRILLING CONTRACTOR PROJECT NO: DRILLING CONTRACTOR PROJECT NO: NORTHING: 333107.36 604849.476 604849.476 604849.476 FANGE: FORMULA RIG: COORDINATE SYSTEM: COORDINATE SYSTEM: VERTICAL DATUM: VERTICAL DATUM: VERTICAL DATUM: NA NA 14+00JN OFFSET TOWNSHIP: RANGE: SECTION: 1/4 SECTION: 1/4 SECTION: SURFACE ELEVATION: SURFACE ELEVATION:																	
		3022 Kinsman Blvd.																	
		LETED.			7/23/	14			RVT				4	in				l*	EKTIONE BYTOM.
	ATION				Ozauk	ee						1/4 1/4 SEC	TION:						NA
\vdash		14+0	0JN			0													
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and C	Geological (Origin fo	nts		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
			3		- 1 -		0.3 7.5" PC	SE COURSE	uce to little cla	v loose F	-11.1		GW	-				HSA	
		15		2-3-6-7 (9)				oowi, moist, da	ice to inte cia	y, 1003E, 1			SW						
COUNTESMILWALKEEV 431229-04-01 - 143 - SILVER SPRING TO STH 60/GNT/1229-04-01 (43 12/10/4		24																	
SILVER	1	1		<u> </u>		° ° °	√0.0	En	d of Boring at	t 5.5 ft.				1	I	I	<u> </u>		
Э - 1-43-																			
1229-04-1																			
(EEV-43):							WAT	TER LEVEL		1									
				DUNTERED				NMR			- IN DEPTH AT				NMR				WET DRY
NTIES/MII				L AT COMF			NMR	mandanate te e			- IN DEPTH AF				NMR				WET DRY
noo:							present the app surement Reco	roximate boundary rded	y, graduai trans	sition detw	een in-situ soli laye	ərs snould b	e exp	ected.					

OED.	GCONSIN.	WI [Dept.	of Transpos	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE):	SR8
RTHROAT	OF TRANSPOR	Mac	lison	isinan biyo i, WI 53704			WISDOT STRUCTURE ID:		LOONOUS TANT TO SEE STOTE VI			AGE NO:			1.	1 of 1
		DJECT NA	MÉ:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	DWAYN						DRILLING CONTRACTOR:	RVT				OOPDIN	3336	607.29	93	ASTING: 604857.667
	E STAR				7/23/	14	CREW CHIEF: LOGGED BY:		DRILL RIG: HOLE SIZE:			OORDIN			Ty.	ERTICAL DATUM:
	JNTY:	LETED:			7/23/	14	LOG QC BY:	RVT	HAMMER TYPE:	4	in	TREAMB				ERTICAL DATUM:
	TION			lilwaukee/	Ozauk	ee	C. Wierzcho	owski CTION:		SECTION		URFACE			•	N/
		18+9	8JN	1		4										
חמאד זו ומאאס	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic	Soil / Roc and Geolog Each Major U	gical (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							7" HMA 0.6								HSA	
						244	4" PCC									
			5		- 1 -		0.9 5" BASE COURSE			GW						
							\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	dark t	prown, moist, trace gravel,							
					- 2 -											
	SS 1	11	M 12	5-3-4-6 (7)							4.0					
					- 3 -					CL						
					- 4 -											
	SS 2	17	M 21	6-3-3-3 (6)							1.0					
					- 5-											
							5.5									
Г		1		1	1	1//	End of Bo	oring a	t 5.5 ft.	ı	1					1
_	7 ,	A T C C	-NO	OLINITEDES	, D. 10	NO 5			N OBSERVATION DATA		NJ:	NIN / T				WET (
⊿				OUNTERED EL AT COMF			DRILLING: NMR NMR		CAVE - IN DEPTH AT COMI			NMR NMR				WET [DRY [WET [DRY [
_							oresent the approximate boundary; gradu									DRY [
Ľ							surement Recorded	u ai i	S. S. F. Source of Int Situ Soll layers SHOU	EX	, Joseph					

OED!	SCONSIN.	WI [Dept.	of Transpose	ortati	on	W	SDOT	PROJECT	T ID:				1229	9-04-01	1				BOF		G II	D :		SR9
THE STATE OF THE S	OF TRANSPOR	Mad	lison	, WI 53704	Ĭ.				STRUCTI	URE ID:			CON:2:	1 TALIT -	O IFOT	\.				AGE NO			1.	1	of 1
		OJECT NA	NVIE:		Į.	-43	CONSULTAN		CTOD:						ROJECT NO:		T NO:			ATITUDI				ONGITUDE:	
	DWAY						ORILLING CO		JIUK:			RVT	DRILLI		RACTOR PR	(OJEC)	ı NU:			ORTHIN	33	5706.	28 ^E	ASTING: 6047	795.46
	E STAR	PLETED:			7/23/	/14	OGGED BY:						HOLES							OORDIN			T _V	ERTICAL DATUM:	
	INTY:	LETED.			7/23/	/14	OG QC BY:					RVT		R TYPE:					l in	TREAME				ERTIONE DATION.	
	TION			lilwaukee/ OFFSET		ee	OWNSHIP:		RANGE	C. Wi	erzcho SE	CTION:			ECTION:		1/4 1/4 S	ECTION		JRFACE			•		NA
-		40+0	UJN			15													П						
SAMBLETVBE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			E	and	I / Roc Geolo Major l	gical C	Origin	for				USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	s
							0.3 3.5"	HMA	١														HSA	A	
						P 4	7.5"	PCC	;																
			5			4 4	o.9																		
					1 -		5" B	ASE	COURS	SE								GW							
								Y CL	_AY, bro	own, m	noist, tra	ice san	d & gra	vel, stif	, FILL										
NA																									
$ \rangle / $					- 2	1//																			
M	SS	10	M 21	2-2-3-4														CL	2.0						
$ \Lambda $	1		21	(5)																					
$/ \setminus$					- 3	1//																			
							3.5																		
1							SILT	Y CL	_AY, da	ırk brov	wn, moi	st, trace	e orgar	ics, ver	y stiff										
\mathbb{N}/\mathbb{I}					4	1//																			
M	SS	12	М	2-3-4-5			1												2.5						
$ \Lambda $	2	12	22	(7)			1												2.5						
$/\backslash$					- 5-	1//																			
/ \																									
																		CL							
					- 6	//												OL.							
					- 7	1//																			
						1/																			
					8		8.0																		
7					0		LEA	N CL	AY, bro	own, m	oist, tra	ce grav	el & si	t, very s	tiff										
						1/																			
V	SS		М	6-9-13-16			1											۵.							
	3	22	17	(22)	'- 9 ·	1//	1											CL							
$/\backslash $							1																		
/ \							10.0																		
		1		1	' 10	V /_	_{/1} 10.0			En	nd of Bo	ring at	10.0 ft								-		-	1	
							W	ATF	ER LF	VEL	. & CA	VE-II	N OR	SERV	ATION	N D	ATA								
\overline{V}	w	ATER	ENC	OUNTERED	DURII	NG E			NMR		or		1		DEPTH			LETIC	DN:	NMR					WET DRY
Ā	_	ATER	LEVE	L AT COMF	PLETIC	N:	NMR					Ī	CAV	E - IN	DEPTH A	AFT	ER 0 I	HOUF	RS:	NMR					WET DRY
NC				lines between						bounda	ry; gradı	ual trans	sition be	tween in	-situ soil lä	layers	should	be ex	pected.						
		2) NE = 1	Vot Er	countered; NI	иR = No	Meas	urement R	ecorde	ed																

OED	SCONSIN.	WI [ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D :	SR10
ARTIMES	OF TRANS	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT NO			ATITUDE				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR: RV CREW CHIEF:	T	DRILLING CONTRACTOR PROJECT	CINO:			ORTHIN	3366	86.5	53	EASTING: 604595.515
	E START				7/23/	14	CREW CHIEF: LOGGED BY:		DRILL RIG: HOLE SIZE:				OORDIN			1.	/ERTICAL DATUM:
	JNTY:	LLILD.			7/23/	14	LOG QC BY:	T	HAMMER TYPE:		4	in	TREAMB				PERTICAL DATONI.
	TION			lilwaukee/ (ee	C. Wierzchowsk TOWNSHIP: RANGE: SECTION	(i	1/4 SECTION:	1/4 1/4 SEC	CTION:		JRFACE			•	NA
-		50+0	4JN		3	Rt											T
L ()	SAMPLE I YE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	10	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							5.5" HMA									HSA	A
						A 4	0.5 5" PCC										
							0.9										
					1 -		SILTY CLAY, brown, moist, trace sa	and	, hard to very stiff								
\mathbb{N}																	
I																	
I	SS	14	М	3-4-4-5	- 2 -							4.5					
I	1	14	16	(8)								4.5					
III																	
											CI						
					3 -						CL						
\setminus																	
$\ \ $																	
5	ss	17		9-10-14-16	6 4	V/.						4.0					
GPJ 145 1210/14	2	''	20	(24)								1.0					
0.1040																	
						V/.											
					5	<u> </u>	5.0 End of Boring	at 8	5.0 ft.								
							· ·										
	,						WATER LEVEL & CAVE-	\neg									
Z MILWAUK				OUNTERED				_	CAVE IN DEPTH AT				NMR				WET DRY WET
				L AT COMP			NMR present the approximate boundary; gradual tra	-	CAVE - IN DEPTH AF				NMR				WET □ DRY □
Ž .vC							oresent the approximate boundary, gradual tra Surement Recorded	41 1311	aon between in-situ soli idyel	. o oriodiu L	o exp	Joured.					

1 of	MISCONSIN NO	WI E	ept. Kin	of Transp Isman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01				RING	G ID	:	SR11
Mile Service Mile	AUCDOT DO	Mad	lison	, WI 53704		1		CONCLIL TANT PROJECT NO.						Lo	1 of 1
OFFICIAL DESIGNATION			MVIE:		 - 4	13									
Part Committee							RVT					3371	30.91	B EAS	604522.253
COLUMN Transport Transpo					7/23/1	14								VFF	RTICAL DATUM:
Section Sect					7/23/1	14	RVT		4 ir	า					
SS 10 18 3.5-5-8 2 17 17 7.8-11-15 - 4 - 6 - 7 7 8 3.5 17 18 6.10-11-15 - 9 - 6 - 7				OFFSET		e	C. Wierzchowski		4 SECTION:						NA
SS 17 M 6-10-11-15 9		54+5	OJN		4	Lt									
SS 10 18 3-5-8 2 1-5 6" BASE COURSE SILTY CLAY, brown, moist, trace sand & gravel, hard, POSSIBLE FILL 4.5 SILTY CLAY, gray/brown motified, moist, trace sand & gravel, hard 4.5 CL 4.5 4.1 25	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geological (Origin for	USCS / AASHTO	Sulengui യു (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1 10 M 3-5-5-8 2 117 M 7-8-11-15 4 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard. SS 2 17 M 6-10-11-15 9 6-10-11-15 9 13						p 4 (U. 4						-	ISA	
SS 1 10					1	4 4	1.0								
SS 17 M 7-8-11-15 4 POSSIBLE FILL 13 3 3.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.25 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.25 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.25 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.25 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 CL 4.5 41 25 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.5 SILTY CLAY, gray/brown mottled, moist, trace sand & gr	. /		18				1.5		GW						
SS 17 M 7-8-11-15 4 SILTY CLAY, gray/brown mottled, moist, trace sand & gravel, hard 4.25 SS 17 M 6-10-11-15 9 - A-7-6 (8) A.7-6 (8) CL 4.5 41 25		10	М	3-5-5-8 (10)			SILTY CLAY, brown, moist, trace san POSSIBLE FILL	d & gravel, hard,		4.5					
SS 17 M 6-10-11-15 9 - 10 - 11 - 12 - 12 - 13 - 13 - 13 - 13 - 13	\bigvee ss			7-8-11-15		<u> </u>	SILTY CLAY, gray/brown mottled, mo	ist, trace sand & gravel,							
SS 3 17 M 6-10-11-15 9 - 10 - 11 - 12 - 13 - 13 - 13 - 13 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	2	17	IVI	(19)						20					
A-7-6 (8) A-7-6 (8) A-7-6 (8)	1				- 7 -										
13	SS 3	17		6-10-11-15 (21)	9 7			A-7-6 (8)		4.5	41	25			
SS 4 18 M 19 4-7-9-13 (16) 14 - 15.0	SS 4	18	M 19	4-7-9-13 (16)			15.0			4.5					
End of Boring at 15.0 ft.	1	•		•	· 15			15.0 ft.							
WATER LEVEL & CAVE-IN OBSERVATION DATA							WATER LEVEL & CAVE-II	N OBSERVATION DATA	Α						
▼ WATER ENCOUNTERED DURING DRILLING: NMR B CAVE - IN DEPTH AT COMPLETION: NMR	\overline{y} w	/ATER	ENC	OUNTERED	DURIN	IG D				:	NMR				WET DRY
▼ WATER LEVEL AT COMPLETION: NMR		/ATER	LEVE	L AT COMP	PLETIO	N:	NMR	CAVE - IN DEPTH AFTER	0 HOURS	: 1	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected. 2) NE = Not Encountered; NMR = No Measurement Recorded								sition between in-situ soil layers sho	uld be expe	cted.					

OEDW WISCO	NSIN. FOIL	WI E	ept. Kin	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE):	SR12
AMON OF THE	RANGO	Mad	ison	, WI 53704	į.		WISDOT STRUCTURE ID:		CONICULTANT PROJECT VIC			AGE NO:			I.	1 of 1
		JECT NA	ME:		I	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROAD							RILLING CONTRACTOR:	VT	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3375	71.53	34	ASTING: 604431.536
DATE (7/23/	14	REW CHIEF:		DRILL RIG: HOLE SIZE:			OORDIN			1, -	ERTICAL DATUM:
DATE		ETED:			7/23/	14	OGGED BY:	VT		4	in					ERTICAL DATUM:
COUNT			M	lilwaukee/	Ozauk	ee	OG QC BY: C. Wierzchows OWNSHIP: RANGE: SECTIO	ski	HAMMER TYPE: 1/4 SECTION: 1/4 1/4	SECTION		JRFACE			:	NA
Olivino		59+0	0JN	OT GET	3	Lt	TWINGE.	J14.	II DESTION.		. °	I	LLLV/	11014.		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	14	M 11	4-5-5-3 (10)	- 1 -		20.2 2" TOPSOIL SILTY CLAY, dark brown, moist, tr hard, POSSIBLE FILL	race	e sand & gravel & organics,	CL	4.5				HSA	
	SS 2	9	M 15	4-5-6-6 (11)	- 4 -		3.0 SILTY CLAY, brown mottled, moist hard No organics	st, tr	ace sand, trace organics,		4.5					
					- 6 - - 7 - - 8 -					CL						
	SS 3	17	M 17	4-5-6-8 (11)	- 9 -		10.0				4.25					
					10 -		End of Boring	g at	10.0 ft.							
							WATER LEVEL & CAVE	E-IN	N OBSERVATION DATA							
$\overline{\nabla}$	WA	ATER I	ENCC	DUNTERED	DURIN	NG D			CAVE - IN DEPTH AT COM		DN:	NMR				WET DRY
<u></u>				L AT COMF					CAVE - IN DEPTH AFTER 0			NMR				WET DRY
							resent the approximate boundary; gradual tr	rans	ition between in-situ soil layers shou	ld be ex	pected.					
	2)) NE = I	Vot En	countered; NA	ИR = No	Meas	urement Recorded									

WISDOT PR ROADWAY I	Mad ROJECT NA	ison	sman Blvd , WI 53704			WISDOT STRUCTURE ID:			P/	AGE NO:				
ROADWAY I		ME:				ONCLU TANT.	CONCLUTANT PROJECT ::						Love	1 of 1
DATE STAR				1-4	I3	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				
						RILLING CONTRACTOR: RVT				ORTHIN	3379	66.08	e EAST	FING: 604320.06
				7/23/1	4	REW CHIEF:	DRILL RIG:			OORDIN				
DATE COMP	PLETED:			7/23/1	4	OGGED BY:		4	in	ORIZON			VER	TICAL DATUM:
COUNTY: STATION	63+1		offset	Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:		4 SECTION:		JRFACE		VATION: TION:		N/
		UJIN			U									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	14	M 13	5-5-2-3 (7)	- 1 -		4" TOPSOIL 0.3 SANDY CLAY, brown, moist, with gra	avel, hard, POSSIBLE FILL	SC	4.5			ŀ	ISA	
				- 2 -		3.0 SILTY CLAY, brown, moist, trace sai	nd & gravel, very stiff to hard							
SS 2	15	M 16	7-9-12-14 (21)	- 4 -					3.75					
				- 6 -				CL						
SS 3	18	M 17	6-8-11-13 (19)	- 8 -					4.5					
' \						10.0								
	1			· 10 ·	/ /	End of Boring a	10.0 ft.	-	•					
						WATER LEVEL & CAVE-	N OBSERVATION DATA	Α						
∇ w	/ATER	ENCC	DUNTERED	DURIN	IG D	RILLING: NMR	CAVE - IN DEPTH AT COM	1PLETIC	N:	NMR				WET [DRY [
			L AT COMP	I ETION	νI·	NMR _	CAVE - IN DEPTH AFTER	0 HOUR	:S:	NMR				WET [DRY [

OEDW WISCON	ISIN. JOIL	NI De	pt. (in	of Transp sman Blvo	ortati	on			OJECT ID				1229-04-01				BOF		G II	D :	SR14
OFTRI	MESTO	Madis	on,	WI 53704	- -				RUCTUR	E ID:		la-	ONICHI TANT DDO (TOTA)				AGE NO			1.	1 of 1
		CT NAME	::		I-	43	CONSULTANT		ND:				ONSULTANT PROJECT NO:	VIEOT NO			ATITUDE				ONGITUDE:
	VAY NAM						DRILLING CON	IIRACIO)R:		RV1	Γ	RILLING CONTRACTOR PRO	DJECT NO:			ORTHIN	3392	284.9	11	ASTING: 603748.712
	TARTED				7/18/	14	CREW CHIEF:						RILL RIG:				OORDIN			I.	
	OMPLET	ED:			7/18/	14	OGGED BY:				RVI	Γ 📗	OLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
COUNT			Mi	ilwaukee/ (Ozauk	ee	OG QC BY:	1.	C.	Wierz	chowsk SECTION:	j 📗	AMMER TYPE:	1414.414.6	DEOTION		JRFACE			l:	NA
STATIO	<u>21</u>	+93GF	ΙE	OFFSET	35	Rt	TOWNSHIP:	ľ	KANGE.		SECTION:		1/4 SECTION:	1/4 1/4 3	SECTION	. 5	JRFAGE	LEVA	TION:		
SAMPLE TYPE	NOMBEK	(RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			а	and Ge	Rock De eological jor Unit /	Ori	gin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1		M 222	4-1-2-2 (3)	- 1 -			OPSOIL Y CLAY , FILL	L Y, brow	n, mois	t, some sa	and {	& gravel & organics,		CL	4.5				HSA	
S	SS 2		M 29	2-3-2-3 (5)	- 4 -		3.0 SILT	Y CLAY	Y, very	dark bro	own, mois	t, litt	le organics, very stiff		CL	3.0					
					- 6 - - 7 -		8.0	V CLAN		no no otili		•	a aand bard								
	SS 3		M 20	3-4-5-7 (9)	- 9 -		10.0	I CLA	ι, ριοψ				e sand, hard		CL	4.5					
										⊨nd c	of Boring a	it 10.	.υ π.								
							W	ATFR	R L FV	′EI &	CAVF-	IN (OBSERVATION	DATA							
∇	WAT	ER FN	ICO	UNTERED	DURI	NG F					E E		CAVE - IN DEPTH A		PLETIC	DN:	NMR				WET DRY
<u>A</u>				L AT COMP			NMR	. 4141				_	CAVE - IN DEPTH A				NMR				DRY L WET C DRY
								pproxim	nate bou	ındarv: d			on between in-situ soil la				\				DRY [
				countered; NN							,		Sita doll la	, 5 G. 1001							

90	SCONSIN.	WI [Dept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:	1229-04-01			30F	RIN	G IE) :	SR15
MATTHERS	OF TRANSPOR	Mad	lison	, WI 53704	u. ‡		WISDOT STRUCTURE ID:				AGE NO				1 of 1
		OJECT NA	AME:		I-4	I3	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3393	319.59	97	ASTING: 604646.956
	TE STAR				7/23/1	4	CREW CHIEF:	DRILL RIG:				NATE SY		I.	
	TE COMP	LETED:			7/23/1	4	LOGGED BY:	HOLE SIZE:	4	in		ITAL DA			ERTICAL DATUM:
	UNTY:		N	lilwaukee/	Ozauke	e	LOG QC BY: C. Wierzchowski TOWNSHIP: RANGE: SECTION:	HAMMER TYPE:	SECTION:			ELEVA	VATION	l:	NA
517	ATION	<u>31+09</u>	GHE	OFFSET	30 I		TOWNSHIP: RANGE. SECTION.	1/4 SECTION: 1/4 1/4	SECTION:	1	JRFACE	LECTA	TION:		Т
L L L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Op (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	13	M 9	2-3-6-6 (9)	- 1 -		4" TOPSOIL 0.3 SAND & GRAVEL, light brown to tan, organics, loose, FILL	moist, trace clay, little	GW-GN					HSA	
COUNTESMILWALKEEV-431728-04-01 - 1-43 - SILVER SPRING TO STH-80/GINT/1228-04-01 GPJ 1-43 1/2/10/14	SS 2	9	M 5	5-8-8-6 (16)	- 4 -		SAND, light brown, moist, medium de		SW						
EV-43/12.							WATER LEVEL & CAVE-I	N OBSERVATION DATA							
Z WAUKE	<u> </u>	ATER	ENC	DUNTERED	DURIN	IG D	1	CAVE - IN DEPTH AT COMP		N:	NMR				WET DRY
ESWILV		ATER	LEVE	L AT COMF	PLETION	N:	NMR	CAVE - IN DEPTH AFTER 0	HOUR	S:	NMR				WET DRY
NO NO							present the approximate boundary; gradual tran surement Recorded	sition between in-situ soil layers shou	ld be exp	pected.					

MISCONSIN.	WI [ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G ID):	SR16
OF TRANS	Mad	ison,	, WI 53704	•		WISDOT STRUCTURE ID:	LOONOULTANT DOOR TO			AGE NO:			1.	1 of '
WISDOT PR		MÉ:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:	NO:		ATITUDE				ONGITUDE:
ROADWAY I						RILLING CONTRACTOR: RV		NU:			3394	120.06	3	ASTING: 604650.498
DATE STAR				7/23/	14	REW CHIEF: OGGED BY:	DRILL RIG: HOLE SIZE:			OORDIN			1.75	ERTICAL DATUM:
COUNTY:	PLETED:			7/23/	14	OG QC BY:	HAMMER TYPE:	4	in	TREAMBI			v	ERTICAL DATUM:
STATION		М	ilwaukee/ (Ozauk	ee	C. Wierzchowsk OWNSHIP: RANGE: SECTION	i	4 1/4 SECTION		URFACE				N/
317(110)(30+900	HW	OTT OLT	40	Lt	TOWNSE.	WASCOTION.	+ II+ OLOTIOI		I	LLLV/	IION.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
		7		- 1 -		6" HMA 0.5 12" BASE COURSE		GW	-				HSA	
SS 1	12	M 19	7-3-3-3 (6)	- 2 -		SILTY CLAY, brown mottled, moist, very stiff	trace sand & gravel, stiff to	CL	2.0					
SS 2	13	M 19	4-3-3-4 (6)	- 4 -					2.5					
					<u> [//</u>	5.5 End of Boring	at 5.5 ft.		1					
						WATER LEVEL A CAN'T	IN ODOEDVATION S	T.A.						
						WATER LEVEL & CAVE-	IN OBSERVATION DA	ΙA						
	/ATCS	- N.O.O.	\	D. 15.		DILLING: NAS	1 00/5 11 555511 5	ON 4D1 ET1	\ N I	N 10 40				\/\FT [
			DUNTERED L AT COMP			RILLING: NMR				NMR NMR				WET [DRY [WET [DRY [

OEPA SCO	VSIN. 30E	WI D	ept. Kin	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE):	SR17
THE OF THE	INNER CONTRACTOR	Madi	son	, WI 53704	,		WISDOT STRUCTURE ID:	CONCULTANT PROJECT VO			AGE NO:			1.	1 of 1
		IECT NAI	VIE:		I-4	13	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	VAY NA						ORILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO	:			3394	169.46	68 E	ASTING: 604375.909
	COMPLE				7/18/ ⁻	14	CREW CHIEF: OGGED BY:	DRILL RIG: HOLE SIZE:			OORDIN			lv.	ERTICAL DATUM:
COUNT		-160.			7/18/	14	RVT	HAMMER TYPE:	4	in	TREAMB				ERTICAL DATOW.
STATIC)N			ilwaukee/ (Ozauke	e	C. Wierzchowski		4 SECTION:		URFACE				NA
	1146	6+50G	HA		40	Rt									T
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	11	M 10	4-6-8-10 (14)	- 1 -		0.2 2" TOPSOIL LEAN CLAY, dark brown, moist, som hard	e sand & gravel & organics,	CL	4.5				HSA	
	SS 2	9	M 18	2-3-2-4 (5)	- 3 - - 4 -		3.0 SILTY CLAY, dark brown, moist, son stiff, FILL	e sand & gravel & organics,		2.0					
					- 5- - 6 -				CL						
	SS 3	13	M 19	2-3-3-6 (6)	- 8 -		10.0 SILTY CLAY, brown mottled, moist, t	ace sand & gravel, hard		2.0					
					- 11 <i>-</i> - 12 <i>-</i> - 13 <i>-</i>				CL						
	SS 4	22	M 16	5-9-8-10 (17)	- 14 <i>-</i>		15.0			4.5					
					13		End of Boring at	15.0 ft.							
							WATER LEVEL & CAVE-	N OBSERVATION DATA	۸						
Ţ	WA	TER E	NCC	UNTERED	DURIN	IG D	PRILLING: NMR	CAVE - IN DEPTH AT COM	/PLETIC	DN:	NMR				WET DRY
<u>T</u>				L AT COMP			NMR	CAVE - IN DEPTH AFTER			NMR				WET DRY
NOTE							resent the approximate boundary; gradual tran surement Recorded	sition between in-situ soil layers sho	ould be exp	pected.					

OF NO.	WI E	Dept. 2 Kin	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01					ID:	SR18
AUCD OF TRANS	Mad	ison	, WI 53704		-	WISDOT STRUCTURE ID:	CONCULTANT PROJECT !:			AGE NO:			1 of 1
WISDOT PF		AME:		1-4	13	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			LONGITUDE:
ROADWAY						RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT NO:			ORTHING	3397	15.086	EASTING: 604321.768
DATE STAR				7/18/	14	REW CHIEF: DGGED BY:	DRILL RIG: HOLE SIZE:			OORDINA ORIZON			VERTICAL DATUM:
COUNTY:	PLETED:			7/18/	14	RVT DG QC BY:	HAMMER TYPE:	4	in	FREAMBE			VERTICAL DATUM:
STATION			ilwaukee/ (e	C. Wierzchowski DWNSHIP: RANGE: SECTION:		SECTION:		JRFACE			N.
11	49+000	GHA		15	Rt∣								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
SS 1	15	M 19	3-6-5-6 (11)	- 1 -		0.1 1" TOPSOIL SILTY CLAY, dark brown, moist, little organics, hard, FILL	sand & gravel, some	CL	4.5			Н	SA
SS 2	23	M 16	5-5-5-6 (10)	- 3 -		3.0 SANDY CLAY, brown, moist, trace gr	avel, very stiff		3.5				
				- 6 - - 7 -		8.0		SC					
SS 3	22	M 17	6-12-8-5 (20)	- 9 -		SILTY CLAY, brown mottled, moist, to		CL	4.5				
				.5		End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-I	N OBSERVATION DATA						
		ENICO	DUNTERED	DURIN	IG DI	RILLING: NMR	CAVE - IN DEPTH AT COMF	PLETIC	N:	NMR			WET [DRY [
<u> </u>	/ATER	EINCC	OITILITED										DRY

Madison, WI 53704 WISDOT PROJECT NAME: I-43 CONSULTANT: CONSULTANT PROJECT NO: LATITUDE: LONGITUDE: LONGITUDE: ASSING: STREAMBED ELEVATION: VERTICAL DATUM: VERTICAL DATUM: COUNTY: MISDOT STRUCTURE ID: LONGITUDE: LATITUDE: LATITUDE: LONGITUDE: LONGITUDE	DEPA.	SCONSIN 35	WI [Dept. 2 Kin	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BO		G II	D:	SR20
143 1144-141 1157 1158-141 1158-14	THE STATE OF THE S	OFTRANS	Mac	lison					_	OONOU TANT PROJECT NO								1 of 1
Section Part				AME:		l-	43											
A								RV1	Τ		CT NO:				3392		56	EASTING: 604407.453
SS 13 M 2.6.4.7 1						7/18/	14											
SS 13 M			PLETED:			7/18/	14	RV1	т			4		HORIZON	NTAL DA	TUM:		VERTICAL DATUM:
1144440 30				M		Ozauk	ee	C. Wierzchowsk	ci								N:	NA
SS 13 M 4-8-4-7 1 SILTY CLAY, brown, moist, trace gravet, very selff SS 15 M 4-8-4-7 4 CL 3.75 End of Boring at 5.0 ft. WATER LEVEL & CAVE-IN DESERVATION DATA WATER LEVEL COMPLETION: NMR WATER LEVEL COMPLETION: NMR WATER LEVEL ACCOMPLETION: NMR	STA	ATION	114	1+40	OFFSET	50	Rt 1	TOWNSHIP: RANGE: SECTION:	l:	1/4 SECTION:	1/4 1/4 5	ECTION	: 8	URFACI	ELEVA	TION:		
SS 13 M 2-6-4-7 1 SILTY CLAY, dark brown, most, time sand & gravet & organics. hard, POSSIBLE PILL. SS 13 M 2-6-4-7 1 SILTY CLAY, brown, most, trace gravet, very stiff CL 3.75 SILTY CLAY, brown, most, trace gravet, very stiff CL 3.75 SILTY CLAY, brown, most, trace gravet, very stiff CL 3.75 WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN OBSERVATION: NIMR WATER LEVEL & CAVE-IN OBSERVATION: NIMR WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NIMR WATER LEVEL AT COMPLETION: NIMR		SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geological	0	rigin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 15 M 4-6-4-7 - 4 S 15 In M 4-6-4-7 - 4 S 16 In M 4-6-4-7 - 1 S			13		2-6-4-7 (10)	- 1-		SILTY CLAY, dark brown, moist, little	le s	sand & gravel & organics,		CL	4.5				HSA	A
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	GINT/1228-04-01.GPJ 143 12/10/14	SS 2	15					3.0 SILTY CLAY, brown, moist, trace gra	_v	el, very stiff		CL	3.75	5				
WATER ENCOUNTERED DURING DRILLING: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1-43/1229-04-01 - 1-43 - SILVER SPRING TO STH 60					5		End of Boring a)ATA							
WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	Z w	ATER	ENC	DUNTERED	DURIN	NG D					LETIC	DN:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SWILM	_																WET [
	N OUNTE	OTES:	1) Stratif	ication	lines between	soil type	s rep	resent the approximate boundary; gradual trai	nsi									5

OF WISCONSIN	WI [ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01					G ID	:	SR21
OFTRAME	Mad	ison	, WI 53704		-	WISDOT STRUCTURE ID:	CONCULTANT PROJECT CO			AGE NO:			1.00	1 of
	ROJECT NA	ME:		1-4	13	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				IGITUDE:
ROADWAY						RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT NO:				3389	80.072	2 EAS	TING: 604128.32
DATE STAF				7/18/	4	REW CHIEF:	DRILL RIG:			OORDIN			l. en	TION DATE:
DATE COM	PLETED:			7/18/	4	OGGED BY:	HOLE SIZE:	4	in	ORIZON'			VER	RTICAL DATUM:
COUNTY: STATION		М	ilwaukee/ (Ozauke	e	OG QC BY: C. Wierzchowski DWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/4 1/4 \$	SECTION:		JRFACE				N/
11	42+000	SHC	OFFSET	5	Lt '	JAMES SECTION.	1/4 SECTION. 1/4 1/4 3	SECTION:	51	JRFACE	ELEVAI	ION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	9	M 21	6-6-6-6 (12)	- 1 -		0.1 1" TOPSOIL SILTY CLAY, brown & dark brown, m some organics, hard, POSSIBLE FILI	oist, trace sand & gravel,	CL	4.5			ŀ	HSA	
SS 2	19	M 17	5-14-7-17 (21)	- 3 -		3.0 SILTY CLAY, brown mottled, moist, ti	ace sand, hard		4.5					
				- 6 - - 7 -				CL						
SS 3	19	M 18	10-15-13- 19 (28)	- 9 -		10.0			4.5					
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION DATA							
				51151			CAVE - IN DEPTH AT COMF	I ETIO						WET [
<u> </u>	VATER	ENCC	DUNTERED	DURIN	IG D	RILLING: NMR 💹	CAVE - IN DEL TITAL COM	LETIO	N:	NMR				WET [DRY [

OED A	SCONSIN.	WI [ept.	of Transp	ortation	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	D :	SR22
ARTHERS	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:	Loonous Tarres			AGE NO:				1 of 1
		DJECT NA	ME:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:	CT NO:		ATITUDE				ONGITUDE:
	ADWAY N						PRILLING CONTRACTOR: RVT CREW CHIEF:	DRILLING CONTRACTOR PROJECT	UI NU:		OORDIN	3398	321.7	54 ^E	ASTING: 604044.023
	TE COMP				7/17/	14	OGGED BY:	HOLE SIZE:			IORIZON			Į,	/ERTICAL DATUM:
	JNTY:	LLTLD.			7/17/	14	RVT OG QC BY:	HAMMER TYPE:	4	in	TREAME				ENTIONE DATOW.
	TION			lilwaukee/ (ee	C. Wierzchowski	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
-	114	49+970	SHD		4	Rt				\perp					
L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	8	M 35	5-10-7-12 (17)	- 1 -		3" TOPSOIL 0.3 SILTY CLAY, very dark brown, moist very stiff, POSSIBLE FILL	some organics & sand,		3.5				HSÆ	A.
					- 2 -		3.0	d 2 group lyon atiff	CL						
K SPKING TO STH BOUGINI YIZZBU44U1.GPU 145 1ZTUT4	SS 2	19	M 18	5-9-7-12 (16)	- 4 -		SILTY CLAY, brown, moist, trace sar		CL	2.5					
SILVER					3		End of Boring a	5.0 ft.							
N1228-04-01 - 1-43															
YEE V-15	7						WATER LEVEL & CAVE-I								WET C
				DUNTERED				CAVE - IN DEPTH AT			NMR				WET □ DRY □ WET □
				L AT COMP			NMR	CAVE - IN DEPTH AF			NMR				WET DRY
NO.							resent the approximate boundary; gradual tran urement Recorded	มแบบ มะเพยยา เท-รสน soll layel	s snoula be exp	Jecied.					

Made ROJECT NA NAME: STED: 54+000 (BOD) 9	Moisture MHD	ilwaukee/ (OFFSET (AUTON N)	7/17/1. 7/17/1. Ozauke 53 R (t)	3 DR CR 4 LOG	WISDOT STRUCTURE ID: DISULTANT: RILLING CONTRACTOR: REW CHIEF: DIG QC BY: C. Wierzchowski DWNSHIP: RANGE: SecTION: Soil / Rock Des and Geological (Each Major Unit / 0	cription	SECTION:	LA NO	OORDINATI ORIZONTAI TREAMBED URFACE EL	ELEVATION:	1 EAS	1 of 1 NGITUDE: STING: 604071.999 RTICAL DATUM:
RECOVERY (in) PLEASE (ROD) (ROD)	Noisture DH9	OFFSET	7/17/1/ 7/17/1/ Ozauke 53 R (#)	3 DR CR 4 LOG P TO	RILLING CONTRACTOR: REW CHIEF: DIGGED BY: RVT DIG QC BY: C. Wierzchowski DWNSHIP: RANGE: SecTION: Soil / Rock Des and Geological C	DRILLING CONTRACTOR PROJECT NO: DRILL RIG: HOLE SIZE: HAMMER TYPE: 1/4 SECTION: 1/4 1/4 S Cription	SECTION:	in ST	ORTHING: 34 OORDINATION ORIZONTAL TREAMBED URFACE EL	E SYSTEM: L DATUM: ELEVATION: EVATION:	1 EAS	STING: 604071.99\$
RECOVERY (in) Present (RQD)	≥ Moisture	OFFSET	7/17/1. Ozauke 53 R (tj.)	4 CR 4 LOO 9 TO	REW CHIEF: DIGGED BY: DIG QC BY: C. Wierzchowski DWNSHIP: RANGE: Section: Soil / Rock Des and Geological C	DRILL RIG: HOLE SIZE: HAMMER TYPE: 1/4 SECTION: 1/4 1/4 S Cription	SECTION:	in ST	OORDINATION ORIZONTAL	E SYSTEM: L DATUM: ELEVATION: EVATION:	VEF	604071.999
RECOVERY (in) 24+000 (RQD)	≥ Moisture	OFFSET	7/17/1. Ozauke 53 R (tj.)	4 LOG	GGED BY: RVT GG QC BY: C. Wierzchowski DWNSHIP: RANGE: Section: Soil / Rock Des and Geological C	HOLE SIZE: HAMMER TYPE: 1/4 SECTION: 1/4 1/4 S Cription	SECTION:	in ST SL	ORIZONTAI	L DATUM: ELEVATION: EVATION:		RTICAL DATUM:
RECOVERY (in) (RQD)	≥ Moisture	OFFSET	53 R (tt)	e To	C. Wierzchowski WNSHIP: RANGE: SECTION: Soil / Rock Des and Geological C	HAMMER TYPE: 1/4 SECTION: 1/4 1/4 S cription	SECTION:	in ST	TREAMBED URFACE EL	ELEVATION:		
RECOVERY (in) (RQD)	≥ Moisture	OFFSET	Depth (ft)	e TO	C. Wierzchowski DWNSHIP: RANGE: SECTION: Soil / Rock Des and Geological C	1/4 SECTION: 1/4 1/4 S		SU	URFACE EL	EVATION:	po	NA
RECOVERY (in) (RQD)	Moisture Moisture		Depth (ft)	<u>tt </u>	Soil / Rock Des and Geological (cription					р	
	M	BLOW COUNTS (N VALUE)		Graphic	and Geological (cription	SHTO	d d	(%	(%)	р	
9						Origin for Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%) Boulders	Drilling Method	Notes
		7-13-12-13 (25)	3- 1-		0.3 3" TOPSOIL SILTY CLAY, dark brown/brown, mois organics, hard	t, little sand & gravel, some	CL	4.5			HSA	
19	M 15	6-13-11-17 (24)	- 3		3.0 SILTY CLAY, brown mottled, moist, tr	ace gravel, hard		4.5				
			- 6 -				CL					
21	M 17	9-21-15-18 (36)			10.0			4.5				
			. •		End of Boring at	10.0 ft.						
					WATER LEVEL & CAVE-II	N OBSERVATION DATA						
/ATER	ENCC	UNTERED	DURIN	G DR			LETIO	 N:	NMR			WET DRY
						CAVE - IN DEPTH AFTER 0						DRY L
1) Stratifi					INIVII \	LOUGH - IN DEFINACION OF	HOUR!	S: 1	NMR			WET DRY
1/	21	21 M 17	21 M 9-21-15-18 17 (36)	19 M 6-13-11-17 4 - (24) 5 - 6 - 7 - 7 - 8 - 10 (36) 9 - 10	19 M 6-13-11-17 4 - 5 - 5 - 6 - 7 - 7 - 8 - 8 - 10 - 10 - 10 - 10 - 10 - 10 -	19 M 6-13-11-17 4 - 5 - 6 - 7 - 7 - 8 - 8 - 21 M 9-21-15-18 9 - 10.0 End of Boring at WATER LEVEL & CAVE-IN ATER ENCOUNTERED DURING DRILLING: NMR	19	19 M 6-13-11-17 4 5 CL 21 M 9-21-15-18 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA	19 M 15 6-13-11-17 4	19 M 6-13-11-17 4 4 4.5 21 M 9-21-15-18 9 10.0 End of Boring at 10.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA	19 M 6-13-11-17 4 4 5	19 M 6-13-11-17 4

OF WISCONS	w. V	VI Dep 8502 ⊭	ot. (of Transp sman Blvo	ortatio	on _	WISDOT PROJECT ID:	1229-04-01			BOR	INC	G IE):	SR24
WICE OF TRAN	A ST	/ladisc	on,	WI 53704			WISDOT STRUCTURE ID:	CONCLIL TANT DDG IFOT NO.			GE NO:			Ti a	1 of 1
ROADW		CT NAME:			l-	43	CONSULTANT: PRILLING CONTRACTOR:	CONSULTANT PROJECT NO:	NO:		TITUDE:				ONGITUDE:
							RVT	DRILLING CONTRACTOR PROJECT	NO:			3498	64.98	34 E	603374.046
DATE ST					7/10/	14	ORGED BY:	DRILL RIG: HOLE SIZE:			ORDINA ORIZONT			\/F	ERTICAL DATUM:
COUNTY		ED.			7/10/	14	OG QC BY:	HAMMER TYPE:	4 ir	1	REAMBE				ERTICAL DATOW.
STATION	N			Iwaukee/ (96	C. Wierzchowski OWNSHIP: RANGE: SECTION:		/4 1/4 SECTION:		RFACE E				NA
	612-	+00BD	E		55	Rt									
SAMPLE TYPE	RECOVERY (in)	(RQD)	INIOISICIE	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	ss .	17 N		1-3-2-5 (5)	- 1 -		7" TOPSOIL 0.6 SILTY CLAY, dark brown, moist, with stiff	organics, trace sand, very		3.0				HSA	
S	SS .	18 N		5-11-7-12 (18)	- 3 -		Brown, hard		4	1.5					
					- 5- - 6 - - 7 -				CL						
s	SS 2	22 N		3-8-6-9 (14)	- 8 - - 9 -		10.0 End of Boring at	10.0 ft.		1.5					
			_				Life of borning at								
							WATER LEVEL & CAVE-I	N OBSERVATION DA	ATA						
∇	WAT	ER EN	СО	UNTERED	DURIN	IG D	RILLING: NMR	CAVE - IN DEPTH AT C	OMPLETION	:_1	NMR				WET DRY
Ā	WAT	ER LE\	/EL	AT COMP	LETIO	N:	NMR	CAVE - IN DEPTH AFTE	ER 0 HOURS:	١	MR				WET DRY
NOTE							resent the approximate boundary; gradual tran urement Recorded	sition between in-situ soil layers	should be expec	ted.					

Log Construction Log	0ED	CONSIN.	WI [ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D:	SR25
Mail	ATTRONY	OF TRANSPOR	Mad	ison	, WI 53704	ч. 				2010111 TANT 222 15								1 of 1
Second S				ME:		I-	43				OT NO							
CONTINUED T71114 CONTINUED T71114 CONTINUED								RV1	T		J1 NO:				3500		28	EASTING: 604108.529
SS 10 M 5-8-8-9 4						7/11/	14										- Ix	/EDTICAL DATUM:
SS 10 M 5-8-8-0 4 1 1 1 1 1 1 1 1 1			LETED:			7/11/	14	RV1	T			4	in					VERTICAL DATOM:
Soil / Rock Description and Goological Origin for Each Major Unit / Comments Sign S				M	lilwaukee/	Ozauk	ee	C. Wierzchowsk	ki 📗		1/4 1/4 SE	CTION					v .	N/A
Soil / Rock Description and Goological Origin for Each Major Unit / Comments Sign S		12	52+00	BDA	OT GET	75	Lt	TOWNSE DESTROY.	•	174 OLOTION.	174 174 OL	.011014		I		11014.	_	
SS 8 M 3 3.4.4.6 - 1			1			Depth (ft)	Graphic	and Geological	l Or	igin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 10 M 5-8-8-9 4 WATER LEVEL & CAVE-IN OBSERVATION DATA WATER RECOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR ANOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.			8			- 1 -	1/ 7	0.3 SILTY CLAY, dark brown, moist, wit	th sa	and & slag & concrete,			1.0				HSA	A
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 3 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA ✓ WATER ENCOUNTERED DURING DRILLING: NMR ✓ WATER LEVEL AT COMPLETION: NMR ✓ WATER LEVEL AT COMPLETION: NMR ✓ CAVE - IN DEPTH AT COMPLETION: NMR MET DRY CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			10			- 4 -			at 5	5.O.ft			2.0					
✓ WATER ENCOUNTERED DURING DRILLING: NMR ☑ CAVE - IN DEPTH AT COMPLETION: NMR NMR WET DRY I ✓ WATER LEVEL AT COMPLETION: NMR ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY I NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						•		End of Boring a	at 5	.υ π.								
✓ WATER ENCOUNTERED DURING DRILLING: NMR ☑ CAVE - IN DEPTH AT COMPLETION: NMR NMR WET DRY I ✓ WATER LEVEL AT COMPLETION: NMR ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY I NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																		
✓ WATER ENCOUNTERED DURING DRILLING: NMR ☑ CAVE - IN DEPTH AT COMPLETION: NMR NMR WET DRY I ✓ WATER LEVEL AT COMPLETION: NMR ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY I NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																		
WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CAVE-	-IN	OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$ar{ar{ar{ar{ar{ar{ar{ar{ar{ar{$	w	ATER	ENC	DUNTERED	DURII	NG D	RILLING: NMR	<u> </u>	CAVE - IN DEPTH AT	COMPL	ETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$ar{ar{arDelta}}$	_ w	ATER	LEVE	L AT COMP	PLETIO	N:	NMR		CAVE - IN DEPTH AFT	TER 0 H	IOUR	:S:	NMR				WET DRY
	NC								nsiti	ion between in-situ soil layer	s should	be exp	pected.					

OF WISCON	₩. WI	Dept.	of Transp Sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01				RING	G ID):	SR26
THE OF THE	Ma	dison	i, WI 53704			WISDOT STRUCTURE ID:	Laguage Turn Day : :			GE NO:			1.	1 of 1
	T PROJECT N	IAME:		I-4	3 📗	ONSULTANT:	CONSULTANT PROJECT NO:			TITUDE				ONGITUDE:
	/AY NAME:					RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT NO):			3502	19.37	'2	ASTING: 604035.543
	TARTED:			7/11/1	4	REW CHIEF:	DRILL RIG:			OORDIN				
	OMPLETED:			7/11/1	4	OGGED BY:	HOLE SIZE:	4 ir	1	ORIZON				ERTICAL DATUM:
COUNT	N		/lilwaukee/ (e TO	OG QC BY: C. Wierzchowski DWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/4 1	/4 SECTION:		REAMBE		VATION:		NA
	1254+00				0									
SAMPLE TYPE	RECOVERY (in)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Ap (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 8	M 17	1-4-4-6 (8)	- 1 -		0.3 4" TOPSOIL SILTY CLAY, dark brown, moist, with POSSIBLE FILL	gravel, very stiff,	CL ;	3.0			ı	HSA	
S	SS 15	M 19	6-10-7-10 (17)	- 4 -		3.0 SILTY CLAY, brown mottled, moist, ti	ace gravel, stiff to very stiff		1.5					
S	SS 15	M 19	5-11-7-11 (18)	- 6 - 7 - 8 - 9 - 10 - 11 - 11 - 9				CL	3.0					
	SS 17	M 18	8-14-11-16 (25)	- 12 - - 13 - - 14 - - 15 - - 16 -					3.5					
	SS 15	M 20	6-9-9-14 (18)	- 18 - - 19 -		20.0 End of Boring at	20.0 ft.		3.5					
5						WATER LEVEL & CAVE-I	N OBSERVATION DAT	A						
	WATER	ENC	OUNTERED	DURIN	G DF		CAVE - IN DEPTH AT COI		: 1	NMR				WET DRY
T SIMILA	WATER	LEVE	L AT COMP	PLETION	:	NMR	CAVE - IN DEPTH AFTER	0 HOURS:	: 1	NMR				WET DRY
NOTE						esent the approximate boundary; gradual trans exement Recorded	ition between in-situ soil layers sh	ould be exped	cted.					
S	2) NE =	· INOT En	ıcountered; NN	// NO N = 100 N	ıeasu	rement Recorded								

DATE STARTED: 7/15/14 DATE COMPLETED: 7/15/14 CREW CHIEF: DRILL RIG: COORDINATE SYSTEM: COORDINATE SYSTEM: VERTICAL DATE COUNTY: Milwaukee/ Ozaukee STATION 1259+02BDA A Rt DOG QC BY: C. Wierzchowski FANGE: SECTION: 1/4 SECTION: 1/4 1/4 SECTION: SURFACE ELEVATION: POUNT SURFACE ELEVA	SR27
ROADWAYNAME DATE STARTED THIS TARTED THIS	1 of 1
CREW CHIEF DRILL RG: COORDWATE SYSTEM COORD	
DATE COMPLETED: 7/15/14 LOGGED BY: RVT RVT LOGGED BY: RVT RVT LOGGED BY: RVT	03772.35
COUNTY Milwaukee/ Ozaukee DOG OC 87* C. Wierzchowski MAMMER TYPE: STREAMBED ELEVATION: STREAMBED ELE	FL INA:
STATION 1259+02BDA FFSET 4 RI TOWNSHIP RANGE SECTION: 1/4	UM:
1259+02BDA	NA
SS 1 8 M 20 2-9-7-9 1 - 1 - SILTY CLAY, dark brown, moist, some organics, trace sand, very stiff 2.25 SILTY CLAY, dark brown, moist, some organics, trace sand, very stiff 2.25 SILTY CLAY, brown, moist, trace sand, hard 4.5	
SS 1 8 M 2-9-7-9 1 - SILTY CLAY, dark brown, moist, some organics, trace sand, very stiff CL SS 2 20 M 10-17-13- 27 (30) - 4 - (30)	otes
SS 2 20 M 17 10-17-13- 27 (30) 4.5	
- 6	
SS 3 24 M 7-12-9-16 9 - 3.0	
End of Boring at 10.0 ft.	
WATER LEVEL & CAVE-IN OBSERVATION DATA	
☑ WATER ENCOUNTERED DURING DRILLING: NMR	WET [
▼ WATER LEVEL AT COMPLETION: NMR	WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected. 2) NE = Not Encountered; NMR = No Measurement Recorded	

S CONSIN	WI [ept.	of Transposition	ortatio	n	WISDOT PROJECT ID:	1229-04-01	•			RINC	G ID		SR28
OFTRAME	Mad	ison	, WI 53704		1	WISDOT STRUCTURE ID:	CONCULTANT PROJECT VO			AGE NO:			I ONO :	1 of 1
	ROJECT NA	WE:		1-4	13 📗	ONSULTANT:	CONSULTANT PROJECT NO:	T NO.		ATITUDE			LONGITUD	rE:
ROADWAY						RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJECT	I NO:		ORTHIN	3511	04.063	EASTING:	603581.762
DATE COM				7/15/	I4 📗	REW CHIEF:	DRILL RIG: HOLE SIZE:			OORDIN ORIZON			VERTICAL	DATURA
DATE COM	IPLETED:			7/15/	14	DGGED BY: RVT DG QC BY:	HAMMER TYPE:	4	in	TREAMB			VERTICAL	DATUM:
STATION	264+00		offset	Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:		1/4 1/4 SECTION:		JRFACE				NA
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1		M 17	3-10-9-7 (19)	- 1 -		4" TOPSOIL 0.3 SILTY CLAY, dark brown, moist, som	e organics, trace sand, stiff	CL	2.0		Pla		ISA	
SS 2	18	M 16	5-16-14-18 (30)	- 3 -		3.0 SILTY CLAY, brown, moist, trace sar	d & gravel, hard		4.5					
				- 6 - - 7 -				CL						
SS 3	21	M 19	7-12-9-16 (21)			Brown to gray, trace gravel, hard		CL	4.5					
				10		End of Boring at	10.0 ft.						·	
						WATER LEVEL & CAVE-I	N OBSERVATION DA	ATA						
		ENICO	DUNTERED	DURIN			CAVE - IN DEPTH AT C		NI:	NINAD				WET DRY
' ▽ v	VAIER	⊏ <i>1</i> 11			ייטו	IXILLING. INIVIX			N.	NMR				
_			L AT COMP			NMR	CAVE - IN DEPTH AFT			NMR				DRY WET DRY

Martine Mart	é	MISCONSIN	WI I	Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE):	SR29
143 145	Alex	OF TRANS	Mac	lison	, WI 53704				CONCULTANT PROJECT NO						T.	1 of 1
Section Continue				AME:		I	43									
A								RVT					3515	66.3	15	603391.174
Notes 1985						7/15/	14								Tv.	FRTICAL DATUM:
Milwalaked Ozauke Milwalaked Milwalake			" LETED.			7/15/	14	QG QC BY:		4	in					ERTIONE BYTTOM.
Section Sect		TATION				Ozauk	ee T	C. Wierzchowski		ECTION:						NA
SS 9 M 5-10-9-7 1 SS 11 M 7-13-11-5 4 SS 11 M 7-13-11-5 4 WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION	ŀ	1	<u>269+00</u>	BDA 			0									
SSLTY CLAY, brown, moist, with sand & gravet, some organics, vary stiff SSLTY CLAY, brown, moist, trace sand & gravet, very stiff CL 2.5 End of Boring at 5.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL & CAVE-IN DEPTH AT TEX OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT TEX OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT TEX OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT TEX OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT TEX DEPT		SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)			and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 111 M 7-13-11-5 4 SILTY CLAY, brown, moist, trace sand & gravel, very stiff End of Boring at 5.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 15 Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			9		5-10-9-7 (19)	- 1 -	16 16 16 16 16 16 16 16 16 16 16 16 16 1	 SILTY CLAY, dark brown, moist, with 	sand & gravel, some	CL	3.0				HS#	
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WET DRY WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY	GPJ 143 12/10/14	SSS 2	11			3 -			d & gravel, very stiff	CL	2.5					
WATER ENCOUNTERED DURING DRILLING: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR WET DRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected. 2) NF = Not Encountered: NMR = No Measurement Recorded	1-43/1229-04-01 - 143 - SILVER SPRING TO STH 60\GINTY1229-04-01.					5		End of Boring a								
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	AUKEEV	$\nabla \Gamma_{\mathbf{v}}$	VATER	ENC	DUNTERED	DURIN	NG D			LETIO	N:	NMR				WET □ DRY □
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected. 2) NF = Not Encountered: NMR = No Measurement Recorded	SVMILW	_														WET DRY DRY
	(ITNUOO):	VOTES							sition between in-situ soil layers should	d be exp	ected.					

S V			of Transp sman Blvo		on	WISDOT PROJECT ID:	1229-04-01			3OF		G IE) :	SR30
OFTRANS	Mad	lison	, WI 53704		1	WISDOT STRUCTURE ID:	CONCILITANT DDG 1707 115			AGE NO:			1	1 of 1
	ROJECT NA	AME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:	EOT NO.		ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR: RVT	DRILLING CONTRACTOR PROJE	ECT NO:			3493		22 ^{E/}	ASTING: 604282.003
DATE STA				7/14/	14	REW CHIEF:	DRILL RIG:			OORDIN			1.	
DATE COM	MPLETED:			7/14/	14	OGGED BY: RVT	HOLE SIZE:	4 i	n	ORIZON				ERTICAL DATUM:
COUNTY:		M	lilwaukee/	Ozauk	e	C. Wierzchowski	HAMMER TYPE:	Lucius esercioni		TREAMB			:	NA
STATION 1	245+07	BDB	OFFSET	7	Rt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SU	JRFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strengtn Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	8	M 17	2-4-3-2 (7)	- 1 -		0.5 6" TOPSOIL SILTY CLAY, dark brown, moist, som very stiff, POSSIBLE FILL	e sand & organics, hard to		4.5				HSA	
SS 2	9	M 16	3-5-3-5 (8)	- 3 - - 4 - - 5-				CL	3.0					
				- 6 - - 7 - - 8 -		8.0 SANDY CLAY, gray & brown, moist, l	ittle grovel von etiff							
SS 3	14	M 18	3-4-3-3 (7)	- 9 - 10		SANDY CLAY, gray & brown, moist, i	ittle gravet, very stiff	;	3.75					
				- 11 - - 12 -				SC						
SS 4	i 19	M 11	4-4-4-7 (8)	- 13 - - 14 - 15		13.0 SILTY CLAY, brown, moist, with sand stiff			3.75					
SS 5	23	M 17	3-8-6-11 (14)	- 16 -		SILTY CLAY, brown/ grayish brown, r		CL	4.5					
				17		End of Boring at								
						WATER LEVEL & CAVE-I	N OBSERVATION I	DATA						
_	VATER	ENC	DUNTERED	DURIN	IG D	RILLING: NMR	CAVE - IN DEPTH AT	COMPLETION	l:	NMR				WET DRY
Δ /	VATER	LEVE	L AT COMP	LETIO	N:	NMR	CAVE - IN DEPTH AF	TER 0 HOURS	: I	NMR				WET DRY
NOTES						resent the approximate boundary; gradual transurement Recorded	sition between in-situ soil laye	ers should be expe	cted.					

OE WISCONSIA	WI [Dept. 2 Kin	of Transp Isman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF		G IE):	SR31
OFTRANS	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:	CONCILITANT DDG TOTAL			AGE NO:			1	1 of 1
ROADWA	PROJECT NA	AME:		 -4	3	ONSULTANT: PRILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJE	ECT NO:		ORTHIN				ONGITUDE: ASTING:
						RILLING CONTRACTOR: REW CHIEF:	DRILL RIG:	ECT NO:		OORDIN	3495	38.00	38	604243.126
DATE CO	MPLETED:			7/10/	4	OGGED BY:	HOLE SIZE:			ORIZON			Tv.	ERTICAL DATUM:
COUNTY:				7/10/	4	RVT	HAMMER TYPE:	4 i	n	TREAMB				
STATION			lilwaukee/ (Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				NA
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological Each Major Unit /	Origin for	USCS / AASHTO	strengtn up (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1		M 14	4-7-5-7 (12)	- 1 -		0.1 1" TOPSOIL SANDY CLAY, dark brown, moist, so POSSIBLE FILL	me organics, stiff,	sc					HSA	
SS 2	3 12	M 19	2-6-3-7 (9)	- 3 - - 4 - - 5-		3.0 SILTY CLAY, brown & dark brown, m trace organics, medium	oist, some sand & gravel,		1.0					
	- 6 -													
SS 3	5 21	M 17	8-26-17-34 (43)	+ 8 - + 9 - + 10 - - 11 -		Trace sand & gravel, hard			4.5					
1 83 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				- 12 - - 13 -		13.0 SILTY CLAY, brown to grayish brown	, moist, trace gravel, hard							
SS 4		M 17	10-15-11- 18 (26)	- 14 -		15.0		CL	4.5					
723-04-0				10		End of Boring at	15.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION I	DATA						
-	WATER	ENC	OUNTERED	DURIN	G D	RILLING: NMR	CAVE - IN DEPTH AT	COMPLETION	l:	NMR				WET DRY
			L AT COMP			NMR	CAVE - IN DEPTH AF			NMR				WET DRY
NOTES						resent the approximate boundary; gradual tran urement Recorded	sition between in-situ soil laye	ers should be expe	cted.					

OF WISC	ONSIN. 30	WI [ept.	of Transp sman Blvo	ortatio	on	WIS	DOT PROJE	ECT ID:			1229-04-0)1			BOF		G II) :	SR32
A WOOD	TRANSPOR	Mad	ison	, WI 53704				DOT STRUC	CTURE ID:		000.0	II TANT DOO 1505	0.			AGE NO:			1.	1 of 1
		DJECT NA	ME:		I	43	CONSULTANT:					JLTANT PROJECT N				ATITUDE				ONGITUDE:
	OWAY N						DRILLING CON	IKACIOR:		RVT		NG CONTRACTOR P	KUJECT NO			IORTHIN	349	9793.	91	ASTING: 604178.798
	START	LETED:			7/10/	14	CREW CHIEF:				DRILL HOLE S					OORDIN			I.v	ERTICAL DATUM:
COUN		LETED.			7/10/	14	LOG QC BY:			RVT		ER TYPE:		4	l in	TREAME				ERTICAL DATOW.
STAT	ION	50+00		offset	Ozauk	ee	TOWNSHIP:	RAN	C. Wier	SECTION:	HAIVIIVII	1/4 SECTION:	1/4 1	/4 SECTION		URFACE			.	NA
								l												
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			and G	Rock Des eological (ajor Unit / (Origin	for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	8	M 12	5-6-7-3 (13)	- 1 -				dark brown	, moist, with	sand &	k gravel, very sti	iff,	CL	3.0				HSA	
					3 -		3.0	/ CLAV (dark brown	moist trace	e etone	& organice etif	f							
\mathbb{N}							FILL	r CLAT, C	Jaik biowii	, moist, trace	e storie	& Organics, sui	1,							
	SS 2	8	M 22	4-5-4-7 (9)	- 4 - - 5- - 6 -			SILTY CLAY, dark brown, moist, trace stone & organics, stiff, FILL												
143 1270/14	SS 3	1	М		- 8 - - 9 - -10-		SLAG	6, heavy o	cobbles 8.5	i' to 10'				CL						
UI - F43 - SILVER SPRING IO SI H BONGIN MZ29-04-U1.GFD	SS 4	15	W 20	10-14-8-19 (22)	- 12 - - 13 - - 14 -		13.0 SILTY	Z CLAY, t				nd, very stiff		CL	4.0					
-8229-04-										of Boring at										
KEEV-43									EVEL 8			SERVATIO								=
T WAUK	+			DUNTERED				NMR			_	/E - IN DEPTH				NMR				WET DRY WET
T NO.				L AT COMF			NMR		- 6			/E - IN DEPTH				NMR				WET DRY
NO				lines between countered; NN					e boundary;	graduai trans	sition be	tween in-situ soil	iayers sho	оиіа ре ех	pected.					

OF WISCO	DNSIN.	WI [ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01			3OF		G IE):	SR33
ATTOP T	RANSO	Mad	ison	, WI 53704	Ī		WISDOT STRUCTURE ID:		CONCULTANT PROJECT CO			AGE NO:			1	1 of 1
		DJECT NA	uviE:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				
	WAY N						DRILLING CONTRACTOR: R CREW CHIEF:	VT	DRILLING CONTRACTOR PROJECT NO: DRILL RIG:			ORTHIN	3498	368.1	57	ASTING: 604262.511
	START	LETED:			7/11/	14	LOGGED BY:		HOLE SIZE:			ORIZON			VI	ERTICAL DATUM:
COUN		LLILD.			7/11/	14	LOG OC BY:	VT	HAMMER TYPE:	4	in	FREAMB				
STATIO	ON			lilwaukee/		ee	C. Wierzchows TOWNSHIP: RANGE: SECTION	Ski ON:		SECTION		JRFACE			-	NA
-	128	50+40I	BDB		100	Rt					\Box					
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock I and Geologic Each Major Uni	al C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
1			15			11/2	. 0.3	طاند	olog troop organics							
	SS 1	8	М	2-2-2-3 (4)	- 1 -		SILTY CLAY, dark brown, moist, v medium, FILL	with	slag, trace organics,	CL	1.0				HSA	
					3 -	//	3.0 SILTY CLAY, dark brown, moist, v	with	stone trace sand &		-					
	SS 2	10	M 17	6-6-7-7 (13)	- 4 -		organics, very stiff, FILL	witi	Storie, flace sails a		2.5					
					- 5 - - 6 - - 7 -		Medium	CL								
	SS 3	8	M 19	3-3-3-3 (6)	- 9 - -10 - -11 -		Wedulii				1.0					
	SS 4	10	M 17	3-5-5-8 (10)	- 12 - 13 - - 14 -		13.0 SILTY CLAY, brown mottled, mois	st, tr	ace sand & gravel, stiff	CL	2.0					
					15	1//	15.0 End of Borin	g at	15.0 ft.		1					
									N OBSERVATION DATA							
$\overline{\nabla}$	W	ATER	ENCC	DUNTERED	DURII	NG F		E-II	CAVE - IN DEPTH AT COMP	PLETIC	DN:	NMR				WET DRY
<u>A</u>	_			L AT COMF					CAVE - IN DEPTH AFTER 0			NMR				DRY WET DRY
	ES: 1) Stratifi	cation	lines between	soil type	es rep	present the approximate boundary; gradual	=								טאז 📙
<u> </u>							surement Recorded		<u> </u>							

MISCONSIN 30	WI [ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:	1229-0	4-01			3OF		G IE):	SR34
OFTRANS	Mad	ison	, WI 53704	Ĭ.	1	WISDOT STRUCTURE ID:	CONICI II TANIT DOS :-	CT NO			AGE NO:			1	1 of 1
WISDOT PR		ME:		1-4	I3	CONSULTANT:	CONSULTANT PROJE				ATITUDE				NGITUDE:
ROADWAY						PRILLING CONTRACTOR:		OR PROJECT NO:			ORTHIN	3492	71.05	57 EA	STING: 603983.11
DATE STAR				7/10/1	4	CREW CHIEF:	DRILL RIG:				OORDIN				
DATE COMP	PLETED:			7/10/1	4	OGGED BY:			4	in	ORIZON				RTICAL DATUM:
COUNTY: STATION			lilwaukee/	Ozauke	e	OG QC BY: C. Wierzchowsk OWNSHIP: RANGE: SECTION:	HAMMER TYPE:	DN: 1/4 1/4	SECTION:		JRFACE				NA
12	45+00	BDC			0										
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	6	M 16	2-5-3-6 (8)	- 1 -		20.2 2" TOPSOIL SILTY CLAY, dark brown, moist, sor medium, FILL	ne gravel slag & org	ganics,	CL					HSA	
SS 2	15	M 16	4-8-7-10 (15)	- 4 -		3.0 SILTY CLAY, brown, moist, trace sa	nd & gravel, hard to	very stiff		4.5					
				- 6 - - 7 -					CL						
SS 3	20	M 18	4-8-6-10 (14)	- 9 -		10.0 End of Boring a	10.0 ft			3.75					
						End of Boring a	. 10.0 It.								
						WATER LEVEL & CAVE-	N OBSERVAT	TION DATA							
_	/ATER	ENC	DUNTERED	DURIN	IG D	RILLING: NMR	CAVE - IN DEF	PTH AT COM	PLETIO	N:	NMR				WET DRY
∡ w	/ATER	LEVE	L AT COMP	PLETION	N :	NMR	CAVE - IN DEF	PTH AFTER (HOUR	S:	NMR				WET DRY
▼ W	/ATER	LEVE cation	L AT COMF	PLETION	N: s rep	RILLING: NMR	CAVE - IN DEF	PTH AT COM	PLETIO HOUR	S:					WE DR WE DR

OF WISCONSIN TO SE	WI [Dept.	of Transp Isman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01					G IE):	SR35
OF TRAME	Mad	lison	, WI 53704		1	WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO			1	1 of 1
WISDOT PR		AME:		I-4	3	CONSULTANT:				ATITUDE				
ROADWAY						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3497	716.69	94	ASTING: 603756.691
DATE STAR				7/08/1	4	REW CHIEF:	DRILL RIG:			OORDIN			1 1 1	-DTICAL DATUM
DATE COM	PLETED:			7/08/1	4	OGGED BY: RVT OG QC BY:	HOLE SIZE: HAMMER TYPE:	4	in	ORIZON				ERTICAL DATUM:
COUNTY: STATION	250+00		lilwaukee/ (Ozauke	e	OWNSHIP: RANGE: SECTION:		4 SECTION:		URFACE		VATION:		NA
					<u> </u>									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	12	M 18	2-7-4-10 (11)	- 1 -		0.3 3" TOPSOIL SILTY CLAY, dark brown, moist, som POSSIBLE FILL	e organics, trace sand, stiff,	CL	2.0				HSA	
SS 2	16	M 15	5-13-10-15 (23)	- 3 -		3.0 SILTY CLAY, brown, moist, trace gra	vel, hard		4.5					
SS 3	13	M 18	2-8-6-13 (14)	- 6 - - 7 - - 8 - - 9 - - 10 -				CL	4.5					
\$\$ 4	20	M 18	8-13-11-16 (24)	- 12 - - 13 - - 14 - - 15 - - 16 -		A-6 (Brown to grayish brown, very stiff	3)		3.0	33	18			
SS 5 SILVER SPRING TOS	21	M 18	5-11-11-16 (22)	- 18 -		20.0 End of Boring at	20 O ff		3.0					
-43/1229-						WATER LEVEL & CAVE-I		Δ						
Ž W	/ATFR	FNCC	OUNTERED	DURIN	G D	1	CAVE - IN DEPTH AT COM		Λ.	NMR				WET DRY
			EL AT COMP			NMR	CAVE - IN DEPTH AFTER			NMR				DRY ☐ WET ☐ DRY ☐
						resent the approximate boundary; gradual tran								DKY 🗌
						urement Recorded	-							

OF WISCONSIN. NOIL			of Transp sman Blvo		n	WISDOT PROJECT ID:	1229-04-01			30R	ING	ID:	SR36
WISDOT PR	Mad	ison	, WI 53704		1	WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO:			1 of
		ME:		J-4	13			10.		ATITUDE:			
ROADWAY						RILLING CONTRACTOR: REW CHIEF:	DRILLING CONTRACTOR PROJECT N	NO:			34983	8.199	EASTING: 603679.06
DATE STAR				7/09/	14	OGGED BY:	DRILL RIG: HOLE SIZE:			ORDINA			VERTICAL DATUM:
COUNTY:				7/09/	14	OG OC BY:	HAMMER TYPE:	4 iı	า	REAMBE			
STATION			lilwaukee/ (e	C. Wierzchowski OWNSHIP: RANGE: SECTION:		1/4 SECTION:		JRFACE E			N/
12	50+97	BDC		72	Lt								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Suengin യ്യ (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
SS 1	4	M 14	5-6	- 1 -		20.3 4" TOPSOIL SILTY CLAY, dark brown, moist, little large cobbles, stiff to hard, FILL	sand & gravel & organics &		2.75			н	SA
SS 2	12	M 13	11-18-13- 24 (31)	- 3 - - 4 - - 5-				CL '	4.5				
SS 3	9	M 17	23-16-12- 22 (28)	- 6 - - 7 - - 8 - - 9 - -10 - -11 -		8.0 SILTY CLAY, brown, moist, little sand FILL	SILTY CLAY, brown, moist, little sand & gravel, hard, POSSIBLE						
SS 4	8	M 21	5-7-6-8 (13)	- 13 - - 14 - 15 - 16 -		13.0 SILTY CLAY, brown, moist, trace sar	d & gravel, stiff to very stiff		2.0				
SS 5	14	M 21	3-7-6-10 (13)	- 17 - - 18 - - 19 -		20.0		CL 2	2.75				
				20		End of Boring at							*
						WATER LEVEL & CAVE-I							
_			DUNTERED				CAVE - IN DEPTH AT CO			NMR			WET [DRY [WET [
			L AT COMP			NMR	CAVE - IN DEPTH AFTER			NMR			WET [DRY [
						resent the approximate boundary; gradual transurement Recorded	sition between in-situ soil layers si	nould be expe	cted.				

Madison, Wilder Madison, William Madison, Wi	MISCONSIN 301			of Transp sman Blvo		on		OT PROJECT ID:		1229-04-01			BOF		G IE) :	SR37
Section Sect	OFTRANS	Mad	lison					OT STRUCTURE ID:		Laguari Tri							1 of 1
Page			AME:		I-	43											
Tright T								ACTOR:	RVT		CT NO:			3498			603775.145
Section Sect					7/09/	14											
Table Property Table Pro		LETED:			7/09/	14		F	RVT		4	in					ERTICAL DATUM:
1281+678DC			M		Ozauk	ee			vski							:	NA
SS 9 M 6-9-7-9 1	STATION 12	51+57	BDC	OFFSET		0 1	FOWNSHIP:	RANGE: SECT	TION:	1/4 SECTION:	1/4 1/4 SECTION	: S	URFACE	ELEVA	TION:		
SS 9 M 6-97-9 1	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Geologi	cal C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 10 M 6-11-7-12 4 stiff, Fill. 4		9					SILTY (organics	CLAY, brown & dark brow	vn, mo	oist, some sand & gravel &		3.25				HSA	
SS 11 M 6-8-24-13 9 No organics SC 3.0 SS 11 M 6-8-24-13 9 13.0 SILTY CLAY, brown, moist, with sand & gravel slag, very stiff to stiff, FILL SS 11 M 10-11-11 14 (22) SS 13 M 10-16-15-6 13 91 10-16-15-6 13 M 10-16-15-21 21 21 21 21 21 21 21 21 21 21 21 21 2		10			- 4 -		SANDY	CLAY, brown, moist, wit L	h grav	vel, trace organics, very		4.0					
SS 11 M 10-11-11- 19		11			- 7 - - 8 - - 9 -		No orga	No organics									
SS 11 M 10-11-11- 19 20.0 SILTY CLAY, brown, moist, trace sand & gravel, very stiff CL 4.0		12			- 12 - - 13 - - 14 -		SILTY (sand	& gravel slag, very stiff to		2.75					
SS 13 M 10-16-15- 21 22.0 SILTY CLAY, brown, moist, trace sand & gravel, very stiff CL 4.0 End of Boring at 22.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY	SS 5	11	M	14	- 17 - - 18 -						CL	1.75					
End of Boring at 22.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA ✓ WATER ENCOUNTERED DURING DRILLING: NMR ✓ WATER LEVEL AT COMPLETION: NMR ✓ WATER LEVEL AT COMPLETION: NMR ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR ✓ WET DRY	SS 6	13		10-16-15- 21	- 21 -		SILTY				CL	4.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA																	
✓ WATER ENCOUNTERED DURING DRILLING: NMR IMR IMR </td <td></td> <td></td> <td></td> <td></td> <td>D</td> <td>16 -</td> <td></td> <td>WET 🗆</td>					D	16 -											WET 🗆
WATER LEVEL AT COMPLETION: NMR	V W							NMR									DRY DRY
	<u>⊼</u> W								_								DRY [

MISCONSIN NOT			of Transp Isman Blvo		on	WISDOT PROJECT ID:	1229-04-01			3OF	RING	G ID):	SR38
OF TRAME	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:	CONCULTANT DOG "TOT "			AGE NO:			1	1 of 1
WISDOT PRO ROADWAY N		AME:		l⊸	13	ONSULTANT: PRILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT	CT NO:		ORTHING				ONGITUDE:
						RILLING CONTRACTOR: RVT REW CHIEF:	DRILL RIG:	CT NO:		OORDIN	3500	68.40	7	603660.189
DATE STAR				7/09/	14	OGGED BY:	HOLE SIZE:			ORIZON			\/F	ERTICAL DATUM:
COUNTY:	LETED.			7/09/	14	RVT OG QC BY:	HAMMER TYPE:	4 i	n 📗	REAMBI				ENTICAL DATOW.
STATION			lilwaukee/ (e	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				NA
12	54+04	BDB		56	Lt									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	strengtn യp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	10	M 13	1-3-3-2 (6)	- 1 -		0.4 5" TOPSOIL SANDY CLAY, brown & dark brown, organics, very stiff, FILL	moist, with sand & gravel &		2.5				HSA	
SS 2	8	M 17	4-6-3-7 (9)	- 3 - - 4 - - 5-					3.0					
SS 3	7	M 21	2-3-1-2 (4)	- 6 - - 7 - - 8 - - 9 - -10 -				sc	2.5					
SS 4	18	W 21	5-6-5-8 (11)	- 12 - - 13 - - 14 -		13.0 SILTY CLAY, gray & brown mottled, i trace organics, stiff	noist, trace sand & gravel,	CL	1.75					
SS 5	21	M 17	8-18-14-26 (32)	- 16 - - 17 - - 18 - 5- 19 -		18.0 SILTY CLAY, brown, moist, trace gra	vel, hard	CL	4.5					
<u> </u>				20	///	20.0 End of Boring at	20.0 ft							
						WATER LEVEL & CAVE-I		ΔΤΔ						
∑w	ATER	FNC	OUNTERED	DIIBIN	IG D	1	CAVE - IN DEPTH AT		ı.	NMR				WET DRY
			L AT COMP			NMR	CAVE - IN DEPTH AF			NMR				DRY ☐ WET ☐ DRY ☐
_						resent the approximate boundary; gradual tran				TIVIT				DRY 🗌
						urement Recorded		20 OAPC						

NOT NOT	WI E	ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01	_				G IE):	SR39
WICCO TRANS	Mad	ison	, WI 53704	.		WISDOT STRUCTURE ID:	CONCULTANT DOO 1507 110			AGE NO:			1.	1 of 1
WISDOT PRO		ME:		I-4	.3 │	CONSULTANT:	CONSULTANT PROJECT NO:	OT NO.		ATITUDE				ONGITUDE:
ROADWAY						ORILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	JI NO:		ORTHIN	3502	276.66	64	ASTING: 603645.058
DATE STAR				7/07/1	4	CREW CHIEF: OGGED BY:	DRILL RIG: HOLE SIZE:			OORDIN			lv.	ERTICAL DATUM:
COUNTY:	LETED.			7/07/1	4	OG QC BY:	HAMMER TYPE:	4 i	n			VATION:		ERTICAL DATOW.
STATION	56+001		offset	Ozauke	e	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	13	M 23	1-3-2-4 (5)	- 1 -		SILTY CLAY, dark brown, moist, trace	e organics, very stiff, FILL	CL	2.5				HSA	
SS 2	15	M 17	6-20-16-24 (36)	- 3 -		3.0 SILTY CLAY, brown, moist, hard			4.5					
SS 3	19	M 17	9-20-19-26 (39)	- 6 - 6 - 6 - 7 - 6 - 8 - 6 - 9 - 10 - 7 - 11 - 7		Trace gravel		CL	4.5					
SS 4	20	M 20	10-15-12- 16 (27)	- 12 - - 13 - - 14 - - 15 - - 16 - - 17 -		Sand lenses, very stiff			4.0					
SS 5	22	W 19	6-14-10-21 (24)	- 18 -		20.0 End of Boring at	20.0 ft.		3.0					
-43/122						WATER LEVEL & CAVE-II		ATA						
ğ <u>V</u> w	ATER	ENCC	DUNTERED	DURIN	G D		CAVE - IN DEPTH AT		J:	NMR				WET DRY
≟			L AT COMP			NMR I	CAVE - IN DEPTH AFT			NMR				DRY WET DRY
NOTES: 1	1) Stratifi	cation	lines between	soil type	s rep	resent the approximate boundary; gradual trans								טרו 🗆
						urement Recorded	,	•						

OF WISCONSIN	WI [Dept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF		G ID):	SR40
OFTRANS	Mad	lison	, WI 53704	~•	1	WISDOT STRUCTURE ID:	CONCULTANT DDO : 227 112			AGE NO:			1	1 of 1
WISDOT PE		AIVIE:		I-4	3	ONSULTANT: RILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJE	CT NO:		ORTHIN				ONGITUDE:
						RILLING CONTRACTOR: REW CHIEF:	DRILLING CONTRACTOR PROJE	CT NO:		OORDIN	3505	39.92	23	603474.115
DATE STAF				7/02/1	4	OGGED BY:	HOLE SIZE:			ORIZON			I V/F	ERTICAL DATUM:
COUNTY:	FLETED.			7/02/1	4	RVT OG QC BY:	HAMMER TYPE:	4 i	n	TREAMB				ERTICAL DATOW.
STATION		M	lilwaukee/ (Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				NA
12	259+001	BDD		67	_t									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Op (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	8	M 18	1-4-2-5 (6)	- 1 - - 2 -		0.3 3" TOPSOIL SILTY CLAY, brown/dark brown, moisorganics, very stiff, FILL	st, trace sand, trace		2.5				HSA	
SS 2	5	M 16	5-9-7-10 (16)	- 3 -				CL	4.0					
SS 3	10	M 28	3-6-4-8 (10)	- 6 - - 7 - - 8 - - 9 -		8.0 SILTY CLAY, brown & gray, moist, wi organics, very stiff, POSSIBLE FILL	th sand, trace gravel, trace		2.5					
# 101 ZI C+1 C+2				- 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12		13.0		CL						
SS 4	19	M 17	8-21-18-22 (39)	- 13 - - 14 -		SILTY CLAY, brown, moist, trace gra		CL	4.0					
				ıJ		End of Boring at	15.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION D	DATA						
3 -			DUNTERED			<u> </u>	CAVE - IN DEPTH AT			NMR				WET DRY
			L AT COMP			NMR	CAVE - IN DEPTH AF			NMR				WET DRY
						esent the approximate boundary; gradual tran- urement Recorded	sition between in-situ soil laye	rs should be expe	ected.					

130	SCONSIN 3	WI E	ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D :	SR41
MATHERS	OFTRANS	Mad	ison	, WI 53704	u.		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		1-4	13	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N						PRILLING CONTRACTOR:	T	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3511		34 E	ASTING: 603398.46
	TE STAR				7/02/1	14	CREW CHIEF:		DRILL RIG:				OORDIN				
	TE COMP	LETED:			7/02/1	14	OGGED BY:	Т	HOLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
	UNTY:		M	lilwaukee/	Ozauke	e	OG QC BY: C. Wierzchowsk COWNSHIP: RANGE: SECTION:	(i	HAMMER TYPE: 1/4 SECTION:	1414 414 05	OTION		TREAME			l:	NA
517	12	65+00I	BDD	OFFSET		0 '	OWNSHIP: RANGE: SECTION:		1/4 SECTION:	1/4 1/4 SE	CTION:	5	URFACE	ELEVA	HON:		Т
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	0	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	7	M 16	4-9-7-13 (16)	- 1 -		2" TOPSOIL SILTY CLAY, brown, moist, trace gra	ravi	el, hard		CL	4.5				HSA	
43 - SILVER SPRING TO STH 60IGINITYIZZ9-04-01 GPJ 1-43 1/2/10/14	SS 2	20	M 18	10-20-13- 26 (33)	- 4 -		5.0 End of Boring a	at :	5.0 ft.			4.25					
1-01 - H43																	
X1229-04																	
KEEV-43	,						WATER LEVEL & CAVE-										NAICT C
Z NAUK				DUNTERED				_	CAVE IN DEPTH AT				NMR				WET DRY WET
INTIES/MI				L AT COMP			NMR resent the approximate boundary; gradual trai		CAVE - IN DEPTH AF				NMR				WET DRY
300.							resent the approximate boundary; gradual trai urement Recorded	ıısı	uon petween in-situ soii iaye.	is siiUUIA	ne ext	occied.					

430.	SCONSIN 30	WI [ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D:	SR42
ATTMENT	OFTRANS	Mad	ison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	MÉ:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT NO			ATITUDE				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR: RVT CREW CHIEF:	T	DRILLING CONTRACTOR PROJECT	UI NU:			OORDIN	3553		44	ASTING: 602284.93
	E COMP				7/21/	14	LOGGED BY:		HOLE SIZE:				IORIZON			11/	ERTICAL DATUM:
	JNTY:	LLILD.			7/21/	14	OG OC BY:	T	HAMMER TYPE:		4	in	TREAME				ENTIONE BATTOM.
	TION			lilwaukee/		ee	C. Wierzchowsk TOWNSHIP: RANGE: SECTION:	(i	1/4 SECTION:	1/4 1/4 SE	ECTION		URFACE			••	NA
	32	23+50F	WN		30	Rt										1	
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	0	rigin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						7/1/											
	SS 1	14	M 19	1-2-3-3 (5)	- 1 -		3.0	moi	ist, trace sand, very stiff,		CL	4.0				HSA	
OF-UT: PROFILER OFFICE OF IT BOUGHT I IZZBO-FUTOFF THAT I ZETOFF	SS 2	15	M 29	3-4-4-6 (8)	- 4 -		SILTY CLAY, gray & brown mottled, 5.0 End of Boring a				CL	2.5					
0-877							WATER LEVEL 2 24 CAN IE	18.	LODGED VATION S	\ A T ^							
-	7 \ \	ATED	ENICO	אוואדבטבים	י חווטיי	IC D	WATER LEVEL & CAVE-	$\overline{}$			ETIC	NI:	NIME				WET I
				DUNTERED L AT COMF			DRILLING: NMR NMR		CAVE - IN DEPTH AT				NMR NMR				WET DRY WET DRY DRY
=							oresent the approximate boundary; gradual tran	-									DRY 🗌
: 							surement Recorded										

OF STONSIN	WI [Dept.	of Transpose	ortatio	on	WISDOT PROJECT ID:	1229-04-01			3OF	RINC	G ID	:	SR45
OFTRANS	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:	OONOU TANT DEC SECTION			AGE NO:			l. e	1 of 1
	ROJECT NA	ME:		I-4	43	CONSULTANT:	CONSULTANT PROJECT NO:	NO		ATITUDE				NGITUDE:
ROADWAY						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	NU:		ORTHING	355	684.7	1 EA:	STING: 602280.368
DATE STA				7/16/	14	REW CHIEF:	DRILL RIG:			OORDIN			I v ee-	DTICAL DATINA
DATE COM	MPLETED:			7/16/	14	OGGED BY:	HOLE SIZE:	4	in	ORIZON			VEI	RTICAL DATUM:
COUNTY: STATION		N	lilwaukee/	Ozauke	e	OG QC BY: C. Wierzchowski OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/2	/4 1/4 SECTION:		JRFACE				N/A
STATION	327+001	PWS	OFFSET	20	Lt '	OWNSHIP: RANGE. SECTION.	1/4 SECTION:	4 1/4 SECTION.	1	JRFACE	ELEVAI	ION.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological 0 Each Major Unit / 0	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	12	M 18	3-3-5-6 (8)	- 1 -		9.3 3" TOPSOIL SILTY CLAY, dark brown & brown, moorganics, very stiff, FILL	oist, some sand & gravel &	CL	2.25			ŀ	HSA	
SSS 2	16	M 23	5-11-7-13 (18)	- 4 -		3.0 SILTY CLAY, brown & gray, moist, litt gravel, very stiff, FILL	le sand & organics, trace		3.0					
				- 6 - - 7 -		8.0		CL						
SS 3	19	M 18	8-17-17-14 (34)			SILTY CLAY, brown, moist, trace grav		CL	4.5					
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-II	N ORSEDVATION DA	ΤΔ						
∑ v	VATER	FNC	OUNTERED	DIIBIN	IC D		CAVE - IN DEPTH AT C		N·	NMR				WET DRY
														DRY C WET C DRY C
										4IVIIX				DRY [
<u>√</u> v	VATER	LEVE cation	L AT COMF	PLETIO	N: es repr	NMR resent the approximate boundary; gradual transurement Recorded	CAVE - IN DEPTH AFTE	R 0 HOUR	S:	NMR				D W D

OF WILL	SCONSIN.	WI [ept.	of Transp	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	D:	SR48
ARTHURS	OF TRANSPOR	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
		DJECT NA	ME:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:	CT NO:		ATITUDE				ONGITUDE:
	DWAY N						ORILLING CONTRACTOR: RVT CREW CHIEF:	DRILLING CONTRACTOR PROJECT	UI NU:		OORDIN	3555		29	EASTING: 601481.444
	E STAR				7/21/	14	ORGED BY:	HOLE SIZE:			OORDIN			- Iv	/ERTICAL DATUM:
	JNTY:	LLTED.			7/21/	14	RVT	HAMMER TYPE:	4	in	TREAME				VEITHCAE DATONI.
	TION			lilwaukee/		ee T	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE			••	NA
H		22+0	OCN		60	Lt								Г	
	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Op	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	15	M 21	1-2-4-4 (6)	- 1 -		5" TOPSOIL O.4 SILTY CLAY, brown & dark brown, n stiff	oist, some organics, very	CL	3.5				HSA	A
	SS 2	24	M 16	5-7-9-11 (16)	- 4 -		SILTY CLAY, brown mottled, moist, to see the second		CL	4.5					
_	7						WATER LEVEL & CAVE-								LAZETTE T
Ā	_			DUNTERED				CAVE - IN DEPTH AT			NMR				WET DRY
Ā				L AT COMF			NMR	CAVE - IN DEPTH AF			NMR				WET DRY
NC							resent the approximate boundary; gradual trar surement Recorded	sition between in-situ soil layei	rs snould be exp	ected.					

OED.	SCONSIN.	WI [Dept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01	_			BOF		G II	D :	SR49
HTWEEK	OF TRANSPOR	Mad	lison	i, WI 53704			WISDOT STRUCTURE ID:		OONOU!! TANT TOO :				AGE NO				1 of 1
		DJECT NA	ME:		Į.	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT NO			ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTRACTOR: RV	Τ	DRILL PIG:	JI NO:			ORTHIN	3555	543.5	85	601781.597
	E STAR				7/21/	14	CREW CHIEF: LOGGED BY:		DRILL RIG: HOLE SIZE:				OORDIN			1.	/ERTICAL DATUM:
	JNTY:	LETED:			7/21/	14	RV LOG QC BY:	т	HAMMER TYPE:		4	in	TREAME				VERTICAL DATOM:
	TION			filwaukee/	Ozauk	ee	C. Wierzchowsk TOWNSHIP: RANGE: SECTION		1/4 SECTION:	1/4 1/4 SEC	TION:		URFACE			v.	N/
017		25+2	1CN	OTTOET	10	Lt	TOWNSHIE . INVINOE. GEOTION	•	IN SECTION.	114 114 020	711014.		I	I	1	1	T
L	SAMPLE I TPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	10	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							3" HMA									HSA	4
							0.3 3" CRUSHED ASPHALT										
							0.5										
			2				12" BASE COURSE										
											0144						
										'	GW						
\mathbb{N}							1.5										
\mathbb{N}			4				MEDIUM TO COARSE SAND, brow & gravel, dense to medium dense, s	νn,	moist, trace clay, with slag								
W							& graver, derise to medium derise, s	Sily	ni petro odor, r ill								
V	SS			5-32-15-10													
	1	16	M	(47)	2												
$\ \cdot\ $																	
					3												
											SP						
											3F						
$ \rangle $			6														
W																	
IV																	
	SS 2	24	М	15-10-17 (27)	- 4												
				(21)													
$\ \ $																	
							5.0										
					-		End of Boring	at	υ. υ π.								
\vdash							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IN	I OBSEDVATION D	ΛΤΛ							
$\bar{\Sigma}$	7 W	ATFR	FNC	OUNTERED	DUR	NG F	WATER LEVEL & CAVE- DRILLING: NMR		CAVE - IN DEPTH AT		=TIC	N.	NMR				WET [DRY [
<u>7</u>				EL AT COMF			<u> </u>	<u>-</u>	CAVE - IN DEPTH AFT				NMR				DRY WET DRY
-	OTES: 1) Stratifi	cation	lines between	soil typ	es rep	oresent the approximate boundary; gradual tra	-									טאץ
L							surement Recorded										

Major Majo	MISCONSIN.	WI [ept.	of Transp	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOI		G IE) :	SR50
1-43	OF TRANSPOR	Mad	ison												1 of 1
Section Total To			WE:		I-	43			CT NO:						
T2114 SUBSTITUTE T2114 SUBSTITUTE							RV1	1	OT NO:			3555	517.88	84	602481.411
Market Double D					7/21/	14								lv.	FRTICAL DATUM:
Milwashed Casulon C. Wiferchowski Section Major City Major C		LLTED.			7/21/	14	RV1	1	4	l in					EKTICAL DATOW.
10 10 10 10 10 10 10 10					Ozauk	ee	C. Wierzchowsk		1/4 1/4 SECTION						N/A
A 5" HMA O.4 19.5" BASE COURSE SS 12 M 4-4.4.4 3 3		32+0	OCN		10	Rt									
SS 12 M 4-4-4-4 - 3 SETYCLAY, brown, moist, with gravel, very stiff, FILL SS 11 M 2-3-4-4 - 5 SETYCLAY, brown & gray, moist, with sand & gravel, very stiff, FILL WATER LEVEL & CAVE-IN DESERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL & CAVE-IN DEPTH AT FIER OHOURS: NMR	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic	and Geological	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 12 M 4-4-4-4 S SANDY CLAY, brown, moist, with gravel, very stiff, FILL. SS 11 M 4-4-4-4 S SC 4.0 SILTY CLAY, brown & gray, moist, with sand & gravel, very stiff, FILL. SC 4.0 End of Boring at 6.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL AT COMPLETION: NMR SQ CAVE-IN DEPTH AT ER OHDURS NMR SQ CAVE-IN DEPTH AT ER OHDURS NMR SQ CAVE-IN DEPTH AT COMPLETION: NMR SQ CAVE-IN DEPTH AT ER OHDURS NMR SQ CAVE-IN DEPTH AT ER			3				0.4							HSA	A .
SS 12 M 4-4-4-4 3 SILTY CLAY, brown & gray, moist, with sand & gravel, very stiff, FILL SS 11 M 2-3-4-4 5 CL 3.0 End of Boring at 6.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR OTES: 1) Strafflication lines between sail types represent the approximate boundary, gradual transition between rs-situ soil layers should be expected.			3		- 1-		19.5" BASE COURSE		GW						
SS 11 M 2-3-4-4 - 5 CL 3.0 End of Boring at 6.0 ft. WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR WATER LEVEL AT COMPLETION: NMR		12					4.0			4.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		11			- 5-		FILL	ith sand & gravel, very stiff,		3.0					
WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1	ļ		I	6	<u> </u>		t 6.0 ft.		-					
WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.															
WATER ENCOUNTERED DURING DRILLING: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.							WATER LEVEL & CAVF-	N OBSERVATION Γ	DATA						
WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	∇ w	ATER	ENCC	DUNTERED	DURII	NG D				DN:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.															WET C
	NOTES: 1	1) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradual trai								51.17

MISCONSIN.	WI E	ept.	of Transp	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G ID):	SR51
OFTRANS	Mad	ison	, WI 53704	4.		WISDOT STRUCTURE ID:				AGE NO:				1 of '
	ROJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						PRILLING CONTRACTOR:				IORTHIN	355	535.4	4 E	ASTING: 602781.564
DATE STAF				7/21/	14	CREW CHIEF:	DRILL RIG:			OORDIN				
ATE COM	PLETED:			7/21/	14	OGGED BY:		4	in	IORIZON'			VE	ERTICAL DATUM:
COUNTY:		M	lilwaukee/ (Ozauk	ee	og qc BY: C. Wierzchowski				TREAMB				N/
STATION	35+0	OCN	OFFSET	14	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1	4 SECTION	: S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
		5				3" HMA 0.3 13" BASE COURSE		GW					HSA	
SS 1	12	14 M	3-4-4-5 (8)	- 2 -		1.3 SILTY CLAY, brown & dark brown, n very stiff, POSSIBLE FILL	oist, trace sand & gravel,	CL	4.0					
SS 2	24	16 M	8-9-11-15 (20)	- 3 -		3.5 SILTY CLAY, brown, trace sand & gr	avel, hard		4.5					
				5		5.5 End of Boring a	t 5.5 ft.	CL						
						WATER LEVEL & CAVE-	N OBSERVATION DAT	Α						
							· · · · · · · · · · · · · · · ·	-						
$\overline{\nabla }$ $\overline{\nabla }$	VATER I	ENCC	DUNTERED	DURI	NG D	RILLING: NMR	CAVE - IN DEPTH AT COM	/PLETIC	DN:	NMR				WET [
_			DUNTERED			RILLING: NMR	CAVE - IN DEPTH AT CON			NMR NMR				WET [DRY [WET [DRY [

OED WIS	CONSIN.	WI [Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	D:	SR58
HTTM COAS	OF TRANSPOR	Mad	lison	, WI 53704	۷. ا		WISDOT STRUCTURE ID:	Lookou Takit and in the			AGE NO				1 of 1
		DJECT NA	MÉ:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:	ST NO:		ATITUDE				ONGITUDE:
	DWAY N						ORILLING CONTRACTOR: RVT CREW CHIEF:	DRILLING CONTRACTOR PROJECT	JI NU:		OORDIN	3548	379.2	63	601976.983
	E COMP				7/16/	14	LOGGED BY:	HOLE SIZE:			IORIZON			Ix	/ERTICAL DATUM:
	INTY:				7/16/	14	RVT .og qc by:	HAMMER TYPE:	4	in	TREAME				
	TION			lilwaukee/ (ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
	13	05+00	CNC		13	Rt				\perp					
SAMPI E TVPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	7	M 222	3-3-4-3 (7)	- 1 -		3" TOPSOIL 0.3 SILTY CLAY, dark brown, moist, with stiff, FILL	organics, little gravel, very	CL	2.5				HSA	A
	SS 2	20	M 17	8-21-13-27 (34)	7- 4-		3.0 SILTY CLAY, brown, moist, trace grade in the state of the state o		CL	4.5					
															
							WATER LEVEL & CAVE-I	N OBSEDVATION D	ΔΤΛ						
$\overline{\nabla}$	w	ATER	ENCC	DUNTERED	DURII	NG F		CAVE - IN DEPTH AT		N:	NMR				WET DRY
<u>_</u>	_			L AT COMF			NMR	CAVE - IN DEPTH AFT			NMR				DRY L WET C DRY C
	TES: 1) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradual trans	L							DIV!
	2	2) NE = I	Not En	countered; NN	ЛR = No	Meas	surement Recorded								

130	WISCONSIN B	WI [Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BO		G II): 	MP1
MATIN	NOF TRANSPOR	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		ROJECT NA	AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				.ATITUDI				ONGITUDE:
	OADWAY						PRILLING CONTRACTOR:	/Т	DRILLING CONTRACTOR PROJE	CT NO:			NORTHIN	3434	10.5	95	EASTING: 604350.204
D	ATE STAR	RTED:			7/25/	14 C	CREW CHIEF:		DRILL RIG:			(COORDIN	NATE SY	STEM:		
D	ATE COM	PLETED:			7/25/	14	OGGED BY:	/Т	HOLE SIZE:		4	in	HORIZON	ITAL DA	TUM:	V	/ERTICAL DATUM:
C	OUNTY:		N	lilwaukee/	Ozauk	ee L	OG QC BY: C. Wierzchows	ki	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	NA
ST	TATION	1186+0	0NB	OFFSET	65	Rt T	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 S	ECTION	: 8	URFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	8	M 21	2-4-6-6 (10)	- 1 -		*0.3 4" TOPSOIL CLAY, brown/dark brown, moist, wi	ith	organics, trace slag, stiff,		CL	1.5				HS#	A
	SS 2	7	M 20	3-4-5-5 (9)	- 4 -		3.0 SILTY CLAY, brown & dark brown, stiff, POSSIBLE FILL	mo	oist, trace sand & organics,			2.0					
					- 6 - - 7 -		8.0		al von siff		CL						
4	SS 3	20	M 17	6-11-13-15 (24)			SILTY CLAY, brown, moist, trace g	grav	rei, very stin		CL	3.75	5				
OUNTIESMILWAUKEEV-43/1229-04-01 - 1-43 - SILVER SPRING TO STH 60/GINT/1229-04-01/GPJ 1-43 12/10/14	SS 4	24	W 20	4-6-8-8 (14)	- 12 - 13 - - 14 -		13.0 LEAN CLAY, gray/brown, wet, stiff				CL	2.0					
-43 - SIL	<u> </u>				15	r//	15.0 End of Boring	at	15.0 ft.			1				<u> </u>	
1-10-16							Ç										
13/1229-0							WATER LEVEL 2 COVE	. ,,	ALODOEDVATION S	\ A T ^							
JKEEV-4	□	/ATCC			D. 10.	10.5	WATER LEVEL & CAVE				1 [7:4	NJ-	NINAT				WET [
MILWAL	-			DUNTERED				<u></u>	CAVE IN DEPTH AT				NMR				WET DRY WET
NTIESW				L AT COMF			NMR		CAVE - IN DEPTH AF				NMR				WET DRY
J:\cou							resent the approximate boundary; gradual tra urement Recorded	ans	auon between in-situ soli läyel	s snould	ı ve ex	u c ciea					

430 ·	GCONSIN.	WI E	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE):	MP2
AHTTMERS	OF TRANSPORT	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		I-4	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:
	DWAY N							RVT	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3435	10.3	53	EASTING: 604362.38 5
	E START				7/25/	14	CREW CHIEF: LOGGED BY:		DRILL RIG:					NATE SY			(EDTICAL DATUM
	INTY:	LETED:			7/25/	14	R	RVT	HOLE SIZE: HAMMER TYPE:		4	in					/ERTICAL DATUM:
	TION		M	lilwaukee/ (Ozauke	e	LOG QC BY: C. Wierzchow TOWNSHIP: RANGE: SECTI	vski	1/4 SECTION:	1/4 1/4 SI	TOTION!			BED ELE		:	N/A
SIA	1	187+0	0NB	OFFSET		75	TOWNSHIF. RANGE. SECTI	ION.	1/4 SECTION.	1/4 1/4 31	ECTION.	1	JRFACI	LLEVA	TION.		T
T	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologic Each Major Un	cal C	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	8	M 38	1-1-2-3 (3)	- 1 -		0.1 1"TOPSOIL CLAYEY SAND, brown, moist, loc	oose t	o medium dense			0.75				HS <i>F</i>	A
	SS 2	19	M 13	3-12-15-17 (27)	- 3 - - 4 - - 5- - 6 -						SC						
	SS 3	22	W 26	3-4-5-7 (9)	- 7 - - 8 - - 9 - -10 -		8.0 SILTY CLAY, brown, wet, some s A-6 (2)	sand,	trace gravel, stiff		CL	1.75	28	15			
10001	SS 4	22	W 21	5-8-8-12 (16)	- 12 - - 13 - - 14 -		13.0 CLAYEY SAND, gray, wet, very s	stiff			SC	2.75					
- 10-10 - 1-10-10 - 1-10-10 - 10-10 -							End of Borin	ng at	15.0 ft.								
2							WATER LEVEL & CAV		OBSERVATION D	ATA							
¥ _				DUNTERED			DRILLING: NMR		CAVE - IN DEPTH AT				NMR				WET DRY
<u> 7</u>				L AT COMP			NMR	Ī	CAVE - IN DEPTH AF				NMR				WET [DRY [
NC							present the approximate boundary; gradual surement Recorded	l trans	ition between in-situ soil layei	rs should	be exp	ected.					

OF WISC	NSIN.	WI D	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	D :	MP3
AHTTMENTOF	RANSO	Mad	ison	, WI 53704	4.		WISDOT STRUCTURE ID:						AGE NO				1 of '
		JECT NA	ME:		I-	13	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	WAY NA							VT	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3436	10.5	47	ASTING: 604354.5 7
	STARTE				7/25/	14	CREW CHIEF:		DRILL RIG:					IATE SY			
	COMPL	ETED:			7/25/	14		VT	HOLE SIZE:			in		ITAL DA			ERTICAL DATUM:
COUN			М	ilwaukee/ (Ozauk	e	LOG QC BY: C. Wierzchows	ski	HAMMER TYPE:					BED ELE		l:	N/
STATI	ON 11	88+0	NB	OFFSET	(35 T	TOWNSHIP: RANGE: SECTION	ON:	1/4 SECTION:	1/4 1/4 SE	ECTION:	SI	JRFACE	ELEVA [*]	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock I and Geologic Each Major Uni	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	6	M 38	2-2-2-3 (4)	- 1 - - 2 -		0.1 1" TOPSOIL SILTY CLAY, dark brown, moist, v	with	sand & organics, soft		CL	0.5				HSA	A
	SS 2	19	M 17	5-12-15-16 (27)	- 3 - - 4 - - 5 - - 6 -		SILTY CLAY, brown, moist, trace	sand	d & gravel, hard			4.5					
	SS 3	19	M 16	8-12-15-20 (27)	- 7 - - 8 - - 9 -						CL	4.5					
# 1/01 Z1 C PL	SS 4	19	M 17	13-16-16- 21 (32)	- 11 - - 12 - - 13 - - 14 -		13.0 SILTY CLAY, gray/brown, moist, t	trace	e gravel, hard		CL	4.5					
5				I	- 15	//	End of Boring	g at	15.0 ft.			-				-	ı
יייייייייייייייייייייייייייייייייייייי																	
10.523																	
							WATER LEVEL & CAVE										
$\overline{\underline{\nabla}}$	_			DUNTERED			DRILLING: NMR		CAVE - IN DEPTH AT				NMR				WET DRY
Ī				L AT COMP			NMR	_	CAVE - IN DEPTH AFT				NMR				WET [DRY [
NOT							present the approximate boundary; gradual t surement Recorded	trans	ition between in-situ soil layer	s should	be exp	ected.					

OEP.	SCONSIN.	WI [ept.	of Transp sman Blvd	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE) :	MP4
ARTIMEN	OFTRANSPOR	Mad	ison	, WI 53704	u. !		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY						DRILLING CONTRACTOR:	RVT	DRILLING CONTRACTOR PROJEC	T NO:			ORTHIN	3497	47.3	11	ASTING: 603917.356
	TE STAR				7/18/	14	CREW CHIEF:		DRILL RIG:				OORDIN				
		PLETED:			7/18/	14	LOGGED BY:	RVT	HOLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
	UNTY:		M	lilwaukee/	Ozauk	ee	LOG QC BY: C. Wierzo	chowski	HAMMER TYPE:				TREAME			l:	N/
STA	ATION	250+0	0SB	OFFSET		65	FOWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	SI	JRFACE	ELEVA	TION:		I
i i	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / R and Geo Each Majo	Rock Des blogical (or Unit / (cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	13	M 22	1-3-2-5 (5)	- 1 -		0.2 2" TOPSOIL SILTY CLAY, dark brown, r	noist, trace	e sand, some organics, stiff		CL	1.25				HSA	A
	SS 2	19	M 28	2-4-2-4 (6)	- 3 - - 4 - - 5-		3.0 SILTY CLAY, brown & gray	mottled, r	noist, stiff		CL	1.75					
	SS 3	15	M 17	8-18-12-20 (30)	- 6 - - 7 - - 8 -) _{- 9 -}		8.0 SILTY CLAY, brown, moist,	trace gra	vel, very stiff to hard			4.0					
					- 11 - - 12 - - 13 -						CL						
. \	ss	21	М	9-15-11-16	5 - 14 -							4.5					
	4	- '	23	(26)	'-							-7.5					
<u>{</u>	\				15		15.0 End of	Boring at	15 0 ft								
- 1-10 SILVEN STRING - C CITTOCOGIST (1626-01-1-)																	
O 220-04-								0.43.7= ::		A T ?							
- NE	7	ATED	ENIO	אוועדרטייי	ייטויי				N OBSERVATION DA		ETIC	.NI-	NIA 4 P				WFT F
				L AT COMF			NMR		CAVE - IN DEPTH AT C				NMR NMR				WET [DRY [WET [DRY [
=							resent the approximate boundary; gi	radual trans									DRY [
3							surement Recorded										

" DEP	NSCONSIN 3	WI E	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE):	MP5
ARTIMET	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	1 YAWDA						DRILLING CONTRACTOR:	RVT	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3498	03.99		ASTING: 603885.336
	TE STAR				7/14/	14	CREW CHIEF:		DRILL RIG:				OORDIN				
	TE COMF	LETED:			7/14/	14	LOGGED BY:	RVT	HOLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
	UNTY:		M	lilwaukee/	Ozauk	ee	LOG QC BY: C. Wierzche	owski	HAMMER TYPE:				TREAME			:	N/
ST	ATION 1	250+6	5SB	OFFSET		75	TOWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	JRFACE	ELEVA	ΓΙΟN:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roo and Geolo Each Major l	gical C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	7	M 58	0-3-2-4 (5)	- 1 -		0.1 1" TOPSOIL SILTY CLAY, brown/dark brow stiff	vn, mois	it, some sand & organics,		CL	1.75				HSA	
	SS 2	17	M 21	12-17-22- 16 (39)	- 4 -		3.0 SILTY CLAY, brown mottled, r organics, soft	moist, tr	ace gravel & sand &		CL	0.5					
	SS 3	17	M 19	6-12-8-16 (20)	10		8.0 SILTY CLAY, gray/brown, moi	ist, trace	e gravel, hard to very stiff			4.5					
	И				- 11 - - 12 - - 13 -						CL						
\setminus	SS	2.5	M	6-11-7-14		<i>//.</i>											
Ž /	4	22	19	(18)	14 -	V /.						3.75					
<u> </u>					15		15.0										
5					10		End of Bo	oring at	15.0 ft.								
110 - 110 - 010 EVEN OF THIS OF THE OWNER OW																	
7-077							\\\ATED E\\E\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		U OBOEDWATION S	A T 4							
- NEE 1-	7	ATES:	- NIO	OLINITEDES.	DI 10	10.5	WATER LEVEL & CA				ET!	. N. I.	N 10 45				WFT F
7				DUNTERED					CAVE IN DEPTH AT				NMR				WET [DRY [WET [
N S	-			L AT COMF			NMR present the approximate boundary; grad	lual trans	CAVE - IN DEPTH AFT				NMR				WET DRY
Ĭ,							oresent the approximate boundary, gradi Surement Recorded	uai ii ai iS	ilion between in-situ soli idyer	s si iouia	ne ext	recied.					

SE WISCONSIN	WI D	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G IE):	MP6
OFTRANS	Mad	ison	, WI 53704	4.		WISDOT STRUCTURE ID:				AGE NO				1 of 1
WISDOT PRO		ME:		I-4	13	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:
ROADWAY						DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			IORTHIN	3497	99.10)1	ASTING: 603844.397
DATE COMP				7/08/	14	CREW CHIEF: LOGGED BY:	DRILL RIG:				NATE SY		- Iv	(EDTICAL DATUM
COUNTY:	LETED:			7/08/	14	RVT	HOLE SIZE: HAMMER TYPE:	4	in					/ERTICAL DATUM:
STATION		M	ilwaukee/ (Ozauke	e	LOG QC BY: C. Wierzchowski TOWNSHIP: RANGE: SECTION:		4 SECTION:			ELEVA	VATION:		N.A
1	250+7	5SB	OTTOET	11	15	TOWNSHII . INANGE. SECTION.	III4 SECTION.	4 SECTION.		T ACL	I	IION.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	12	M 19	1-4-1-7 (5)	- 1 - - 2 -		SILTY CLAY, brown, moist, trace san	d & gravel & organics, stiff	CL	2.0				HS <i>F</i>	A
SS 2	21	M 18	5-10-8-12 (18)	- 5-		3.0 SILTY CLAY, brown & gray, moist, ve	ry stiff to hard		4.0					
SS 3	24	M 19	6-10-9-15 (19)	- 6 - - 7 - - 8 - - 9 -				CL	4.5					
SS 4	24	M 20	7-15-11-20 (26)	- 11 - - 12 - - 13 - - 14 -		Gray, very stiff			3.75					
<u> </u>				15	//	15.0 End of Boring at	15 O #							
POPUL PAS SISTENSINE OF CONTOURN LAKESTA														
277						WATER LEVEL & CAVE-II	N OBSERVATION DATA	Α						
<u> </u>	ATER I	ENCC	DUNTERED	DURIN	IG D	1	CAVE - IN DEPTH AT COM		N:	NMR				WET DRY
	ATER I	EVE	L AT COMP	LETIO	N:	NMR	CAVE - IN DEPTH AFTER	0 HOUR	S:	NMR				WET [DRY [
						present the approximate boundary; gradual trans surement Recorded	ition between in-situ soil layers sho	uld be exp	ected.					

OEP	WISCONSIN &	WI E	ept.	of Transp	ortati	on	WISDOT PF	ROJECT ID:		1229-04-01				BOF		G II) :	MP7
ARTHR	OFTRANS	Mad	ison	, WI 53704				TRUCTURE ID:		T				AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:			CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DADWAY						RILLING CONTRACTO	DR:	RVT	DRILLING CONTRACTOR PROJE	ECT NO:			IORTHIN	3500		43	EASTING: 603980.817
	TE STAR				7/09/	14	OGGED BY:			DRILL RIG: HOLE SIZE:				OORDIN			Iv.	/ERTICAL DATUM:
	OUNTY:	LETED:			7/09/	14	OG QC BY:		RVT	HAMMER TYPE:		4	in	TREAME				/ERTICAL DATUM:
	ATION		N	lilwaukee/ (Ozauk	ee		C. Wierz	section:	1/4 SECTION:	1/4 1/4 S	ECTION		URFACE			l.	NA
-	1	253+0	ONB	OLLOCI		80	OWNSHII .	IVANGE.	SECTION.	I/4 SECTION.	1/4 1/4 3	LOTION		ON ACL	I	TION.		<u> </u>
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge Each Maj	Rock Des eological (jor Unit / (cription Drigin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
X	SS 1	10	M 20	2-4-1-6 (5)	- 1 -		0.5 6" TOPSOI		k brown, m	oist, with organics, very sti	iff	CL	3.0				HSA	A
X	SS 2	18	M 18	5-9-7-10 (16)	- 3 - - 4 - - 5-		3.0 SILTY CLA	Y, brown/dark t	brown, mois	st, trace gravel, very stiff			3.0					
	SS 3	18	M 19	4-10-8-12 (18)	- 7 - - 8 - - 9 - -10 -							CL	2.7					
0 143 1210/14	SS 4	20	M 19	3-7-4-9 (11)	- 12 - - 13 - - 14 -		Gray	End o	of Boring at	15 O #			3.0					
-01 - 143- SILVEK SPKING TO STRIBUGINI VIZZ®-04-01.A								2.13 0										
\$1.229-04																		
7 KEE 1-4.	7	, A T = - :	- N.O.	OUNTERS	DUE.	10.5				N OBSERVATION I				NIN (T				WET [
≥				OUNTERED				MR		CAVE - IN DEPTH AT				NMR				WET DRY WET
≝—				L AT COMP			NMR	mata haundan ::	gradual trans	CAVE - IN DEPTH AF				NMR				WET [
7							resent the approxit urement Recorded		yı auuaı II afil	nuon between in-silu suii läyt	ura arroulo	, ne ex	JEUI C U.					

OEPM OEPM	CONSIN.	WI E	ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF	RING	G IE):	MP8
ATTEN OF THE PERSON	F TRANSPOR	Mad	ison	, WI 53704	.		WISDOT STRUCTURE ID:	CONCULTANT PROJECT VIC			AGE NO:			J	1 of 1
	DWAY N	DJECT NA	uviE:		I-4	I3	CONSULTANT: DRILLING CONTRACTOR:	CONSULTANT PROJECT NO: DRILLING CONTRACTOR PROJECT NO:			ORTHIN				ONGITUDE: ASTING:
	E START						RVT CREW CHIEF:	DRILL RIG:			OORDIN	3501	42.27	77 -	603951.225
	E COMP				7/11/1	4	OGGED BY:	HOLE SIZE:			ORIZON"			VE	ERTICAL DATUM:
	INTY:				7/11/1	4	OG QC BY:	HAMMER TYPE:	4	in	TREAMBI				
STAT	TION 1	253+7		lilwaukee/ (C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4	SECTION:	SI	JRFACE	ELEVA ⁻	ΓΙΟΝ:		NA
						U									
SAMPI E TVPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	4	M 36	1-4-1-4 (5)	- 1 - - 2 -		0.2 2" TOPSOIL SILTY CLAY, brown/dark brown, moismedium	st, with organics & sand,	CL	1.0				HSA	
	SS 2	18	M 18	3-4-3-8 (7)	- 3 -		3.0 SILTY CLAY, brown/dark brown, mois	st, with gravel, very stiff		2.5					
<u>/ \</u>					- 5 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7				CL						
10/14	SS 3	12	M 17	3-10-5-18 (15)	- 8 - 10 - 11 -		8.0 SILTY CLAY, brown, moist, trace gra	vel, very stiff to hard		4.0					
H43 - SILVER SPRING TO STH 60/GINT/1229-04-01/GPJ H43 12	SS 4	13	M 18	4-11-8-15 (19)	- 12 - - 13 -		Gray/brown		CL	4.5					
2040					15	//	15.0 End of Boring at	15.0 ft.							1
V-43/1226							WATER LEVEL & CAVE-I	N OBSERVATION DATA							
WAUKEEV	w	ATER I	ENC	DUNTERED	DURIN	IG D		CAVE - IN DEPTH AT COM		N:	NMR				WET DRY
ESIMILW		ATER I	LEVE	L AT COMP	LETION	N:	NMR	CAVE - IN DEPTH AFTER 0			NMR				WET DRY
NO							resent the approximate boundary; gradual transpurement Recorded	ition between in-situ soil layers shou	ld be exp	pected.					
~ L		, L - I	LII	Journal Gu, 1919	/ 10 /										

ſ	MISCONSIN	WII	ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF		G II) :	MP9
	OFTRANS	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
		ROJECT N	ME:		I-4	.3 ∣	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ROADWA						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	T NO:		ORTHIN	3500		16 E	ASTING: 603765.352
	DATE STA				7/07/1	4	REW CHIEF:	DRILL RIG:			OORDIN			I.	
		MPLETED:			7/07/1	4	OGGED BY:	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
	COUNTY:		N	lilwaukee/	Ozauke	е	OG QC BY: C. Wierzchowski OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		TREAMB			1.	NA
Ľ	JI/KIIOK	1253+7	5SB	OTT GET	9	0	TOWAGE. GEOTION.	174 GEOTION.	I I I I I I I I I I I I I I I I I I I	ı	I	LLLV/	l loit.	ı	_
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
/	SS 1	14	M 25	1-2-1-4	- 1 -		30.3 3" TOPSOIL SILTY CLAY, dark brown, moist, little	sand, some organics, stiff	CL	1.5				HSA	A
\ <u>/</u>	SS 2	20	M 18	4-14-13-20 (27)) 4 -		3.0 SILTY CLAY, brown, moist, trace gra	vel, hard		4.25					
V	SS 3	3 20	M 20	6-13-9-16 (22)	- 6 - - 7 - - 8 -				CL	4.5					
COUNTIESMILWAUKEEV 43:1229-04-01 - 1-43 - SILVER SPRING TO STH 601GINTY1229-04-01.GPJ 1-43 12:10/14	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 21	M 20	8-12-10-18 (22)	- 11 - - 12 - - 13 -		Gray/brown, very stiff			3.0					
04-01 - H43 - SILVE	/\		20	(22)	15		15.0 End of Boring at	15.0 ft.							
-43/1229-(WATER LEVEL & CAVE-I		ΔΤΔ						
AUKEE1-	Ţ \	VATFR	ENC	DUNTERED	DURIN	G D	1	CAVE - IN DEPTH AT C		N:	NMR				WET DRY
SYMILW				L AT COMP			NMR .	CAVE - IN DEPTH AFTI			NMR				DRY WET DRY
OUNTIE		: 1) Stratif	cation	lines between	soil type	s repi	resent the approximate boundary; gradual tran								טוו 🗆
J:\C		2) NE =	Not En	countered; NN	IR = No I	/leas	urement Recorded								

4	NISCONSIN T	WI [ept.	of Transp	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF		G IE):	MP10
1	OFTRANS	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:	Laguari # .u=			AGE NO:				1 of 1
		ROJECT NA	ME:		1-4	13	ONSULTANT:	CONSULTANT PROJECT NO:	10.		ATITUDE				ONGITUDE:
	ROADWAY						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	NO:		IORTHIN	3502	09.4		ASTING: 603930.977
	ATE STAP				7/11/1	14	REW CHIEF: OGGED BY:	DRILL RIG: HOLE SIZE:			OORDIN			1.0	ERTICAL DATUM:
L	COUNTY:	PLETED:			7/11/1	14	OG QC BY:	HAMMER TYPE:	4	in	TREAMB				ERTICAL DATUM:
	TATION		N	lilwaukee/ (Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:		4 1/4 SECTION:		URFACE			•	NA
F		1254+4	0NB		80	Rt									I
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
/	SS 1	10	M 22	1-4-2-6 (6)	- 1 -		0.3 4" TOPSOIL SILTY CLAY, brown/dark brown mottl organics, very stiff	ed, moist, trace sand &	CL	3.0				HSA	
/	SS 2	14	M 19	3-6-4-7 (10)	- 4 -		3.0 SILTY CLAY, brown/dark brown mottl stiff	ed, moist, trace gravel, very		3.0					
143 12/10/14	SS 3	15	M 19	6-10-8-9 (18)	- 6 - - 7 - - 8 - - 10 -		Gray/brown, very stiff		CL	3.5					
COUNTIESMILWAUKEE\4331229-04-01 - 143 - SILVER SPRING TO STH 60\GINT\1229-04-01.GPJ 143 12/10/14	SS 4	1	M 19	3-10-8-15 (18)	- 12 - - 13 - - 14 -		15.0 End of Boring at		TA	3.0					
JKEEV-4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	/ATCC	ENO.		חוטיי		WATER LEVEL & CAVE-I			.N.I.	NIN AD				WFT 🗆
MILWAL	_			OUNTERED L AT COMP			RILLING: NMR NMR ■	CAVE - IN DEPTH AT CO			NMR NMR				WET DRY WET DRY DRY
UNTIES							resent the approximate boundary; gradual trans								DRY 🗆
J:\CO	0.						urement Recorded			. 5.50.					

ON WISCO	ONSIN.			of Transp Isman Blvo		n	WISDOT PROJECT ID:		1229-04-01					RIN	G IE):	MP11
AHTMERYOFT	TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		JECT NA	ME:		1-4	3	CONSULTANT:		ONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	WAY N						RILLING CONTRACTOR:	T	RILLING CONTRACTOR PROJEC	T NO:			ORTHIN	3501	125.5	42 E	ASTING: 603682.582
	START				7/07/1	4	REW CHIEF:		RILL RIG:					IATE SY			
		ETED:			7/07/1	4	OGGED BY:	T	DLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
COUN			N	lilwaukee/	Ozauke	е	og qc BY: C. Wierzchowsk	(i	MMER TYPE:					BED ELE		:	NA
STATI	ON 12	254+5	0SB	OFFSET	150	_t	OWNSHIP: RANGE: SECTION:	l:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Orig	gin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	14	M 32	1-3-1-3 (4)	- 1 -		0.3 4" TOPSOIL SILTY CLAY, dark brown, moist, little organics, very stiff	le san	nd & gravel, some			2.5				HSA	
	SS 2	16	M 37	4-4-4-6 (8)	- 3 - - 4 - - 5-						CL	2.5					
	00			0.44.40.00	- 6 -		8.0 SILTY CLAY, gray/brown, moist, trad	ice gra	avel, hard								
	SS 3	24	M 21	8-14-10-21 (24)	- 10 - - 11 - - 12 -		A-6 (4)				CL	4.5	36	20			
200 TA	SS 4	22	M 19	10-12-12- 14 (24)	- 13 - - 14 -		13.0 SILTY CLAY, gray/brown, moist, trace 15.0 End of Boring a				CL	3.75					
1-10-40							5. 25111g 0										
43/1229-							\\/ATED E\/E	INI C	ARSEDI/ATION D	ΛΤΛ							
WAUKE T	10//	ATED	ENIC	OUNTERED	DLIDIN	G D	WATER LEVEL & CAVE-		DAVE - IN DEPTH AT (ETIC	NI:	NMR				WET [
Z SWILWAR	+			L AT COMP			NMR E		CAVE - IN DEPTH AT C				NMR NMR				WET DRY DRY DRY DRY
NOT							resent the approximate boundary; gradual train	- 1									DRY [
							urement Recorded				,						

DEP	WISCONSIN 35	WI [ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II) :	MP12
ARTIN	W OF TRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
	ISDOT PR		ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:	OT 1:0			ATITUD				ONGITUDE:
	OADWAY							VT	DRILLING CONTRACTOR PROJEC	CT NO:			NORTHIN	1G: 3502 NATE SY		31	ASTING: 603637.638
	ATE STAR				7/07/	14	REW CHIEF: OGGED BY:		DRILL RIG: HOLE SIZE:					ITAL DA		Iv.	/ERTICAL DATUM:
	OUNTY:	LETED:			7/07/	14	OG QC BY:	VT	HAMMER TYPE:		4	in		BED ELE			PERTICAL DATOM:
	TATION		N	lilwaukee/	Ozauk	ee	C. Wierzchows OWNSHIP: RANGE: SECTIO	ski	1/4 SECTION:	1/4 1/4 S	ECTION:			ELEVA		N.	NA
	1	255+5	0SB	OTT GET	160	Lt	TOWNSE.	014.	174 SECTION.	174 174 0	LOTION		T	I	l l	1	
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock [and Geologic Each Major Uni	al (Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	W 36	1-2-2-4 (4)	- 1 -		0.3 3" TOPSOIL SILTY CLAY, dark brown, wet, little stiff	le sa	and, some organics, very			2.5				HSA	Α.
	SS 2	11	M 14	3-7-4-6 (11)	- 3 - - 4 - - 5-		Stiff					1.25	5				
	,				- 6 - - 7 - - 8 -						CL						
	SS 3	10	W 25	9-16-13-20 (29))- 9 - 10 - 11 -							1.25	5				
COUNTIESMILWAUKEEV-431229-04-01 - 1-43 - SILVER SPRING TO STH 6010INT/1229-04-01.GPJ 1-43 12/10/14					- 12 - - 13 -		13.0 SILTY CLAY, gray/brown, moist, t	trace	e sand, very stiff			_					
S- SILVER SPRING TO S.	SS 4	19	M 24	6-10-8-13 (18)	- 14 - 15		15.0		45.04		CL	2.5					
04-01 - 1-43							End of Boring	y at	13.0 π.								
43/1229-(MATERIEVE OCAV	<u> </u>	N OBSEDVATION D	ΛTΛ							
UKEEV-4	∑ w	ATED	ENIC	או ואודבטבי	אוטויא	1G D	WATER LEVEL & CAVE	E-II Ø	CAVE - IN DEPTH AT		I ETIC	NI:	NMR				WET 🗆
MILWAL				OUNTERED L AT COMP			NMR .	ie Tiese	CAVE - IN DEPTH AT				NMR				WET DRY WET DRY DRY
UNTIES							resent the approximate boundary; gradual t	trans									DRY 🗌
2:00							urement Recorded			J	5 0/	_ 5.50					

ſ	MISCON	V ZE	WI E	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BOF		G II) :	MP13
	THE OF THE	MASS SE	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:		LOONOUR TANIT DDG 17			AGE NO				1 of 1
			JECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:	110		ATITUDI				ONGITUDE:
	ROADW								RVT	DRILLING CONTRACTOR PROJECT	NO:		NORTHIN	3519	78.0	49	ASTING: 603067.812
	DATE S					7/01/	14	CREW CHIEF: OGGED BY:		DRILL RIG: HOLE SIZE:			COORDIN			Iv.	/ERTICAL DATUM:
	COUNT		ETED:			7/01/	14	OG QC BY:	RVT	HAMMER TYPE:	4	in	TREAME				PERTICAL DATUM:
	STATIO			M	lilwaukee/	Ozauk	ee	C. Wierzchov	wski TION:		/4 1/4 SECTION		URFACE			N.	NA
ŀ	01/(110	`` 12	74+0	0SB	OTT GET	65	Lt	TOWNSE.	11014.	174 SESTION.	74 174 GEOTION		T	I	l l	1	
	SAMPLE TYPE	NOMBEK	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
		SS 1	6	M 23	2-3-2-3 (5)	- 1 -		0.2 2" TOPSOIL SILTY CLAY, brown/grayish bro	own, n	noist, trace sand & organics,	CL	1.5				HSA	A
	S	SS 2	24	M 15	9-20-14-40 (34)	- 3 - 0- 4 - 5-		3.0 LEAN CLAY, brown/dark brown	, mois	st, little gravel, hard		4.5					
						- 6 - - 7 -		8.0	J		CL						
		SS 3	24	M 19	5-12-8-16 (20)			LEAN CLAY, brown, moist, hard	1			4.5					
20UNTIESIMILWAUKEEV-43/1229-04-01 - I-43 - SILVER SPRING TO STH 60/GINT/1229-04-01.GPJ 1-43 12/10/14						- 12 <i>-</i> - 13 -		Gray/brown, very stiff			CL						
3 - SILVER SPRING TO S		SS 4	24	M 23	6-10-8-12 (18)	- 14 -		15.0 End of Bori	ing at	15.0 ft		2.75	5				
-04-01 - 1-4;								ETIQ OF BOTT	ııy al	10.0 ft.							
-43/1229-								WATER LEVEL & CAV	/F-II	N OBSERVATION DA	TA						
AUKEEV.	<u>V</u>	WA	TER	ENCO	DUNTERED	DURIN	NG D			CAVE - IN DEPTH AT C		N:	NMR				WET DRY
:S/MILW.	<u>A</u>				L AT COMP			NMR		CAVE - IN DEPTH AFTE			NMR				DRY ☐ WET ☐ DRY ☐
COUNTIE		ES: 1)	Stratifi	cation	lines between	soil type	es repi	resent the approximate boundary; gradua	al trans				!				<u></u>
5.		2)	NE = l	vot En	countered; NN	ηK = No	меаѕ	urement Recorded									

MISCONSIN.	MI [Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE):	MP14
OFTRANS	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
	ROJECT NA	AME:		-4	13	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWA						RILLING CONTRACTOR:		ECT NO:			3521	59.60)6	ASTING: 602982.595
DATE STA				7/01/	14	REW CHIEF:	DRILL RIG:			OORDIN				
DATE COM	/IPLETED:			7/01/	14	OGGED BY:		4	in	ORIZON				ERTICAL DATUM:
COUNTY:		N	lilwaukee/	Ozauke	e	og qc BY: C. Wierzchowski				TREAMB			:	NA
STATION	1276+0	0SB	OFFSET	65	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA [*]	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	14	W 28	1-2-2-3 (4)	- 1 - - 2 -	<u>x11,</u>		ce sand & organics, stiff		1.25					
SS 2	23	W 21	6-11-8-12 (19)	- 3 - - 4 - - 5-		Very stiff to stiff			2.5					
				- 6 - - 7 - - 8 -				CL						
SS 3	13	W 25	9-20-11-20)- 9 - 10 - 11 -					2.0					
\ /				- 12 <i>-</i> 13 <i>-</i>		13.0 SILTY CLAY, gray/brown, moist, ver	y stiff							
SS 4	24	M 22	9-13-11-13 (24)	3- 14 -		15.0 End of Boring a	t 15.0 ft	CL	2.5					
						End of Boning a	t IJ.U It.							
						WATER LEVEL & CAVE-	IN OBSERVATION F	DATA						
Δĺ	VATER	FNC	OUNTERED	DURIN	IG D				N.	NMR				WET DRY
			EL AT COMP			NMR				NMR				DRY DRY DRY DRY
						resent the approximate boundary; gradual trar								DRY [
						urement Recorded		35 5Ap						

dao.	SCONSIN.	WI E	ept.	of Transp Isman Blvo	ortati	on	12200101						BOI AGE NO		G II) :	MP15
AFTTMENT	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:		[2010]								1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:	OT 1:5			ATITUDI				ONGITUDE:
	ADWAY N							VT	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3523	351.8	43	ASTING: 602925.412
	TE START				7/01/	14	REW CHIEF: OGGED BY:		DRILL RIG: HOLE SIZE:				OORDIN			- Iv	/ERTICAL DATUM:
	JNTY:	LETED.			7/01/	14	OG QC BY:	VT	HAMMER TYPE:		4	in	TREAME				PERTICAL DATOM:
	TION		N	lilwaukee/	Ozauk	ee	C. Wierzchows OWNSHIP: RANGE: SECTIO	ski	1/4 SECTION:	1/4 1/4 9	SECTION:		URFACE			N.	NA
-	2	<u>178+0</u>	0SB	OTT GET	65	Lt	TOWNSE.	J14.	174 GEOTION.	114 114 0	LOTION		T	I	l l	1	
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock E and Geologica Each Major Unit	al (Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	15	M 21	2-6-3-8 (9)	- 1 -		8" TOPSOIL 0.7 SILTY CLAY, brown, moist, trace s	san	d & organics, very stiff			2.5				HSA	A
	SS 2	18	M 17	8-20-16-26 (36)	- 3 - 6- 4 -		No organics, hard to stiff					4.5					
					- 6 - - 7 - - 8 -						CL						
	SS 3	18	M 17	9-18-14-22 (32)	- 9 - 10 -							2.0					
200NTESMILWAUKEE14331228-04-01 - 143 - SILVER SPRIND TO STH-60IGINT/1228-04-01.GPJ 143 12:10/14					- 11 - - 12 - - 13 -		13.0 LEAN CLAY, gray/brown, moist, tr	race	gravel, hard								
SILVER SPRING TO STH 60\	SS 4	20	M 20	6-13-9-18 (22)	- 14 <i>-</i>		15.0				CL	4.5					
п - 1-43 -					13		End of Boring	g at	15.0 ft.								
229-04-0																	
E1-43/12							WATER LEVEL & CAVE	E-II	N OBSERVATION D	ATA							
WAUKE	7 w	ATER	ENC	DUNTERED	DURI	NG D	RILLING: NMR	Ē	CAVE - IN DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
TES/MIL	<u></u>	ATER	LEVE	L AT COMP	PLETIO	N:	NMR J	Ē	CAVE - IN DEPTH AF	TER 0	HOUR	RS:	NMR				WET □ DRY □
NOON:							resent the approximate boundary; gradual tu urement Recorded	rans	sition between in-situ soil laye	rs should	d be exp	pected.					

WI Dept. of Transportati 3502 Kinsman Blvd.						on	1220101							RIN	G IE) :	MP152
ATTIMENT OF THE	RANSO	Mad	ison	, WI 53704	u. -		WISDOT STRUCTURE ID:						AGE NO				1 of '
		IECT NA	ME:		I- -	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	WAY NA						DRILLING CONTRACTOR:	RVT	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	338	845.		ASTING: 604170.6 1
	STARTE				7/18/	14	CREW CHIEF:		DRILL RIG:					NATE SY			
	COMPLE	ETED:			7/18/	14	LOGGED BY:	RVT	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COUN			M	lilwaukee/	Ozauk	e	LOG QC BY: C. Wierzcho	owski	HAMMER TYPE:					BED ELE		:	N/
STATIO	^{ON} 114(0+600	ЭНС	OFFSET		0	TOWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	S	JRFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roo and Geolo Each Major I	gical C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	10	M 17	2-4-3-6 (7)	- 1 -		0.3 3" TOPSOIL SILTY CLAY, brown/dark brow organics, stiff to very stiff	vn, mois	it, trace sand, little			2.0				HSA	
	SS 2	12	M 25	5-5-5-5 (10)	- 3 - - 4 - - 5-						CL	2.5					
	SS 3	13	M 18	3-6-4-11 (10)	- 6 - - 7 - - 8 - - 9 - -10		8.0 SILTY CLAY, brown, moist, ve	ery stiff			CL	4.0					
F100121 OF	SS 4	24	M 18	9-12-14-15 (26)	- 12 - 13 - 14 -		13.0 SILTY CLAY, gray/brown, moi	st, trace	e gravel, very stiff		CL	2.5					
, \				I .	15	//	/ 15.0 End of Bo	oring at	15.0 ft.								
GPU - FPG - טובעבוז טו זוווס סס סייוו מסייסייי																	
57							WATER LEVEL & CA		N ORSEDVATION D	ΔΤΛ							
∇	WΔ	TFR	=NCC	OUNTERED	DURIN	IG F		<u> </u>	CAVE - IN DEPTH AT		FTIC	N.	NMR				WET [DRY [
T				L AT COMF			NMR	125-21	CAVE - IN DEPTH AF				NMR				DRY DRY DRY DRY
-							oresent the approximate boundary; grad	ual trans									DKY [
Š							surement Recorded		.,.								

Wisconsin S	WI D	ept.	of Transp sman Blvo	ortatio	on	MISDOT PROJECT ID: 1229-04-01						G IE):	MP153	
OF TRANSPORT	Mad	ison,	, WI 53704			WISDOT STRUCTURE ID:								1 of '	
WISDOT PRO		ME:		 -4	13	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:	
ROADWAY N						DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			IORTHIN	3404	20.02		EASTING: 604079.909	
DATE START				7/17/	14	CREW CHIEF:	DRILL RIG:				NATE SY				
DATE COMP	LETED:			7/17/	14	LOGGED BY:	HOLE SIZE:	4	in		ITAL DA			/ERTICAL DATUM:	
COUNTY:		М	ilwaukee/ (Ozauke	e	LOG QC BY: C. Wierzchowski	HAMMER TYPE:				BED ELE		:	N/	
STATION 118	6+000	HD	OFFSET	17	Rt	TOWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4	SECTION:	S	URFACE	ELEVA	TION:			
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
SS 1	8	M 16	3-6-4-8 (10)	- 1 -		0.3 4" TOPSOIL SILTY CLAY, brown/dark brown, mois organics, very stiff	t, trace sand, trace	CL	3.5				HSA	A	
SS 2	15	M 18	9-18-12-22 (30)	- 3 - - 4 - - 5- - 6 -		3.0 SILTY CLAY, brown mottled, moist, tr very stiff	ace sand & gravel, hard to		4.5						
SS 3	18	M 19	9-16-12-21 (28)	- 7 - - 8 - - 9 - -10 -				CL	4.0						
SS 4	18	M 19	10-15-12- 13 (27)	- 12 - - 13 - - 14 -		Gray/brown 15.0 End of Boring at	15.0 ft.		4.0						
						WATER LEVEL & CAVE-II	N OBSERVATION DATA	١							
∑ w	ATER E	NCC	DUNTERED	DURIN	IG E	DRILLING: NMR	CAVE - IN DEPTH AT COM	IPLETIC	N:	NMR				WET [DRY [
Ţ W	ATER L	EVE	L AT COMP	LETIO	N:	NMR	CAVE - IN DEPTH AFTER (HOUR	S:	NMR				WET [DRY [
						oresent the approximate boundary; gradual trans surement Recorded	ition between in-situ soil layers sho	uld be exp	pected						

ś	WISCONSIN 2	WI [ept.	of Transp	ortatio	1225 04 01						RIN	G II):	MP154	
1	OF TRANSPORT	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:			PAGE NO			1 of 1			
		NOJECT NA	ME:		I-4:	3	ONSULTANT:	CONSULTANT PROJECT NO:	OT NO:		ATITUDI				ONGITUDE:	
	OADWAY						RILLING CONTRACTOR: REW CHIEF:	DRILLING CONTRACTOR PROJECT	JI NU:		COORDIN	3515	582.2	74	ASTING: 603236.778	
	ATE COM				7/02/14	1	OGGED BY:	HOLE SIZE:			HORIZON			Iv	ERTICAL DATUM:	
	OUNTY:	LLTED.			7/02/14	1	RVT	HAMMER TYPE:		4 in	TREAME				ENTICAL DATOW.	
	TATION			lilwaukee/ (Ozauke	∍	C. Wierzchowski DWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTIO		SURFACE				NA	
F	12	69+75	BDD		() [I			
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)		Graphic	Soil / Rock Des and Geological (Each Major Unit / (Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
/	SS 1	17	W 42	1-3-1-3 (4)	- 1 -/		0.2 2" TOPSOIL SILTY CLAY, dark brown, wet, trace :	sand, with organics, stiff	CL	2.0				HSA		
/	SS 2	21	M 18	3-13-10-16 (23)	3 - 4 - 5 - 5 -		3.0 SILTY CLAY, brown mottled, moist, to	race organics, hard	CL	4.5						
					- 6 - - 7 - - 8 -		8.0 SILTY CLAY, brown, moist, trace sar	d & gravel, very stiff								
4	SS 3	22	M 19	7-13-11-15 (24)	-10					3.75	5					
COUNTIESMILWAUKEE \(4.33\) 222-04-01 - 143 - SILVER SPRING TO STH 80\GINT\\ 1229-04-01.GPJ 143 12/10/14	ss		M	7-9-10-8	- 12 - - 13 -		Gray, moist, with sand seams, stiff		CL							
SPRING	4	21	22	(19)	14	//,				1.5						
SILVER				<u></u>			15.0									
1-04-01 - 1-43 - t	•	•	-		15	/	End of Boring at	15.0 ft.	•		•					
1-43/1229							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA							
AUKEEV	∑ v	/ATER	ENC	DUNTERED	DURING	G DF	1	CAVE - IN DEPTH AT		ON:	NMR				WET DRY	
SVMILW.				L AT COMP			NMR	CAVE - IN DEPTH AFT			NMR				WET DRY DRY	
COUNTIE	NOTES:	1) Stratifi	cation	lines between	soil types	repr	esent the approximate boundary; gradual trans				!					
		2) NE = 1	vot En	countered; NN	nR = No M	easu	rement Recorded									

OEP.	NISCONSIA, 3	WI [ept.	of Transp	ortatio	on	1220 01 01							RIN	G II) :	MP155	
ARTIME	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1	
	SDOT PRO		ME:		1-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:	
	ADWAY N						RILLING CONTRACTOR:	Т	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3516		37 E	ASTING: 603171.808	
	TE STAR				7/02/	14	REW CHIEF:		DRILL RIG:					NATE SY				
	TE COMP	LETED:			7/02/	14	OGGED BY:	Т	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:	
	OUNTY:		N	lilwaukee/ (Ozauke	е	OG QC BY: C. Wierzchowsk	ki	HAMMER TYPE:	T				BED ELE		l:	NA	
ST	ATION 12	71+00	BDD	OFFSET	20	Lt T	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 S	ECTION	s	URFACE	ELEVA	TION:		T	
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	I C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
	SS 1	12	W 23	1-2-1-3 (3)	- 1 -		6" TOPSOIL 0.5 SILTY CLAY, brown & dark brown, vorganics, medium to stiff	we	et, little sand, trace			1.0				HSA	\	
	SS 2	9	M 22	6	- 3 -						CL	2.0						
					- 6 -		8.0											
	SS 3	10	M 19	13-27-16- 10 (43)	- 8 - - 9 -		SILTY CLAY, brown mottled, moist,	, tra	ace gravel, stiff to very stiff	:		4.0						
T/1229-04-01.GPJ 1-43 12/10/14					- 11 <i>-</i> - 12 <i>-</i> - 13 <i>-</i>		13.0				CL							
DOUNTESMILWAUKEEL431229-04-01 - 143 - SILVER SPRING TO STH 601GNT/1229-04-01.GPJ 143 1/2/074	SS 4	24	M 17	10-13-11-6 (24)			SILTY CLAY, gray/brown, moist, tra				CL	3.25	j					
-01 - H43							End of Boring a	at 1	15.U ft.									
1229-04																		
(EEV-43)							WATER LEVEL & CAVE-											
- IEWAU	_			OUNTERED				<u>A</u>	CAVE - IN DEPTH AT				NMR				WET DRY	
NTIES/M				L AT COMP			NMR		CAVE - IN DEPTH AF				NMR				WET DRY	
J:\COU.							resent the approximate boundary; gradual tra urement Recorded	ans	ilion between in-situ soil laye.	rs snould	a pe ex	bected.						

DEP	WISCONSIN B	WI [ept.	of Transp	ortatio	12200101						BOF		G II):	MP156	
ARTIN	W OF TRANS	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:	CONCULTANT PROJECT NO.					AGE NO:				1 of 1
	ISDOT PR		ME:		I-4	3	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	YAWDAO						RILLING CONTRACTOR:	/T	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3518		54 ^E	ASTING: 603119.298
	ATE STAR				7/01/1	4	REW CHIEF: DGGED BY:		DRILL RIG: HOLE SIZE:				OORDIN			lv.	ERTICAL DATUM:
	OUNTY:	LETED:			7/01/1	4	OG QC BY:	/T	HAMMER TYPE:		4	in	TREAME				ERTICAL DATUM:
	TATION		M	lilwaukee/ (Ozauke	e	C. Wierzchowsl DWNSHIP: RANGE: SECTION	ki N	1/4 SECTION:	1/4 1/4 9	SECTION		URFACE				NA
F	12	73+00	BDD			0							1			ı	
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	/					. X	0.4 5" BASE COURSE/SHOULDER GF				GW						
	SS 1	10	M 27	2-3-2-3 (5)	- 1 -		SILTY CLAY, brown, moist, with sa	and	& gravel, medium, FILL		CL	1.0				HSA	A
	SS 2	13	M 26	3-8-3-12 (11)	- 4 -		3.0 SILTY CLAY, brown mottled, moist, organics, very stiff	t, tr	ace sand & gravel, trace			3.25					
					- 6 -		8.0				CL						
10/14	SS 3	22	M 17	12-30-18- 32 (48)			SILTY CLAY, brown to grayish brow	wn,	moist, trace gravel, hard			4.5					
COUNTIESMILWAUKEEV-431Z2B-04-01 - 1-43 - SILVER SPRING TO STH 601GINTVIZ29-04-01.GPJ 1-43 12/10/14	SS 4	23	M 17	11-22-17- 26 (39)	- 12 - - 13 - - 14 -		15.0				CL	4.5					
143 - SII	1			I.	15	///	15.0 End of Boring :	at	15.0 ft.							<u> </u>	1
29-04-01 -																	
EN-43/122							WATER LEVEL & CAVE	-11	N OBSERVATION D	ATA							
WAUKEE	<u></u>	ATER	ENC	DUNTERED	DURIN	G DI	RILLING: NMR	<u></u>	CAVE - IN DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
TESYMILY	<u>√</u> w	ATER	LEVE	L AT COMP	PLETION	1:	NMR I	L	CAVE - IN DEPTH AF	TER 0	HOUF	S:	NMR				WET DRY
J:\COUNT							esent the approximate boundary; gradual tra urement Recorded	ans	sition between in-situ soil laye	rs should	d be ex	pected.					

OF WISCON	w. W	/I Dept	. of Transp	ortatio	on	12200101						RIN	G II) :	MP157
A OF TRA	M	ladisoı	n, WI 53704			WISDOT STRUCTURE ID:					AGE NO				1 of '
	PROJEC			I-	43	CONSULTANT:	CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	AY NAME:					DRILLING CONTRACTOR: RVT		CT NO:			ORTHIN	3551	59.2	34 E	ASTING: 601848.5
	TARTED:			7/16/	14	CREW CHIEF:	DRILL RIG:					NATE SY			
	OMPLETE	D:		7/16/	14	LOGGED BY:	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COUNT	Y:	ı	/lilwaukee/	Ozauk	ee	LOG QC BY: C. Wierzchowski	HAMMER TYPE:					BED ELE		l:	N/
STATIO	1307+	95CNC	OFFSET	24	Lt	TOWNSHIP: RANGE: SECTION:	CTION:	S	URFACE	ELEVA	TION:				
SAMPLE TYPE	RECOVERY (in)	(RQD) Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De: and Geological Each Major Unit /	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	0 M	5-8-7-8 (15)	- 1 -		0.3 4" TOPSOIL SANDY CLAY, dark brown, moist, tra hard, POSSIBLE FILL	ce gravel, some organics,		sc	4.5				HSA	
	SS 9) M	2-3-3-2 (6)	3 -		3.0 SANDY CLAY, brown & gray, moist, medium, POSSIBLE FILL	rrace organics & gravel,		SC	1.0					
	SS 1	6 M 22	5-7-6-9 (13)	- 6 - - 7 - - 8 - - 9 -		8.0 SILTY CLAY, brown mottled, moist, t	race gravel, very stiff			3.5					
				- 11 - - 12 - - 13 -					CL						
	s 1	_a M	3-7-6-10	- 14 -						2.5					
	4 '	³ 19	(13)	'-						2.5					
<u> </u>				15		15.0 End of Boring at	15.0 ft								
or - F45 - GIVER GENING TO STEEDUIGHT (E25-04-0).						5. 25.11g di									
						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N ODSEDVATION D	Λ.Τ.Λ							
∇	\\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	:D ENO	OUNTERED	אוםו וע (וה ר	WATER LEVEL & CAVE-I	CAVE - IN DEPTH AT		ETIC	NI:	NMR				WET [
A			EL AT COM			NMR MR MR	CAVE - IN DEPTH AT				NMR NMR				WET [DRY [WET [DRY [
						oresent the approximate boundary; gradual trans									DRY [
						surement Recorded									

Appendix C

Laboratory Testing