F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	3268F-R-1	COOK	279	159
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHT. S-27 OF S-28

CONTRACT NO. 62387

Wang Engineering, INC.
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Page 1 of 2

BORING LOG B-1

WEI Job No.: 272-05-01

Client: STV Incorporated
Project: IL Rte. 21 Bridge over Des Plaines River
Location: Sec. 19, T42N, R12E; Cook County, IL

Datum: NGVD
Elevation: 643.00 ft
Northx: ft
Easts: ft
Stations: 131+79.5
Offset: 19 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / Recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
643.0	2-Inch thick ASPHALT over 9-Inch thick CONCRETE --PAVEMENT--						
641.5	4-Inch thick CRUSHED STONE --BASE COURSE--						
640.0	Medium dense, brown SILTY LOAM --FILL--			1	10 5 5	NP	12
637.5	8-Inch thick CONCRETE	5		2	36 11 12	1.31 S	15
	Stiff, black and gray, gravelly SILTY CLAY LOAM --FILL--			3	12 15 11	3.85 S	17
634.5	Very stiff, brown and gray SILTY CLAY						
633.0	Medium dense, brown, oxidized SILTY LOAM	10		4	18 10 17	NP	15
632.5	Very stiff, brown and gray CLAY to SILTY CLAY			5	8 11 13	2.71 B	16
629.3	Dense, gray, coarse GRAVELLY SAND	15		6	10 15 14	3.25 P	17
628.5	Very stiff, gray CLAY			7	9 10 21	NP	16
625.0	Dense, gray, fine SAND						
	Stiff to hard, gray SILTY CLAY to CLAY	20		8	16 17 22	3.53 S	18
				9	12 18 11	1.80 B	14
		25		10	8 6 10	1.64 B	15
609.3	Very dense, gray SILT	35		11	9 15 18	2.46 B	14
				12	9 10 21	4.26 B	15
606.3	Very stiff to hard, gray SILTY CLAY to CLAY	40		13	21 37 44	NP	15
				14	6 7 11	2.71 B	16
		45		15	14 28 35	8.61 B	12
		50		16	9 14 20	5.08 B	12

GENERAL NOTES

Begin Drilling: 01-13-2004 Complete Drilling: 01-13-2004
Drilling Contractor: TSC Drill Rig: GP 750 C TMR
Driller: J & J Logger: S. Janowski Checked by: B. Fuglei
Drilling Method: 2.25" SSA to 10-feet; mud rotary to 18-feet; 3.25" ID HSA thereafter.

WATER LEVEL DATA

While Drilling: ▽ 14.75 ft
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▽ NA

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

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Page 2 of 2

BORING LOG B-1

WEI Job No.: 272-05-01

Client: STV Incorporated
Project: IL Rte. 21 Bridge over Des Plaines River
Location: Sec. 19, T42N, R12E; Cook County, IL

Datum: NGVD
Elevation: 643.00 ft
Northx: ft
Easts: ft
Stations: 131+79.5
Offset: 19 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / Recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
638.3	Hard, gray, gravelly SILTY CLAY						
633.3	Very dense, gray, gravelly SILTY LOAM	55		17	50 50/5 50/5	5.25 S	8
584.1	Boring terminated at 58.92 ft	60		18	50/5	NP	6
		65					
		70					
		75					

GENERAL NOTES

Begin Drilling: 01-13-2004 Complete Drilling: 01-13-2004
Drilling Contractor: TSC Drill Rig: GP 750 C TMR
Driller: J & J Logger: S. Janowski Checked by: B. Fuglei
Drilling Method: 2.25" SSA to 10-feet; mud rotary to 18-feet; 3.25" ID HSA thereafter.

WATER LEVEL DATA

While Drilling: ▽ 14.75 ft
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▽ NA

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

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BORING LOG B-2

WEI Job No.: 272-05-01

Client: STV Incorporated
Project: IL Rte. 21 Bridge over Des Plaines River
Location: Sec. 19, T42N, R12E; Cook County, IL

Datum: NGVD
Elevation: 643.00 ft
Northx: ft
Easts: ft
Stations: 131+79.5
Offset: 13 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / Recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
643.0	2-Inch thick ASPHALT over 10-Inch thick CONCRETE --PAVEMENT--						
640.8	7-Inch thick CRUSHED STONE --BASE COURSE--						
639.3	10-Inch thick CONCRETE			1	16 50/2	NP	7
638.2	Brown GRAVELLY SAND --FILL--			2	--		
637.5	15-Inch thick CONCRETE	5					
636.2	GRAVELLY SAND --FILL--			3	7 10 12	3.61 B	21
	Very stiff, brown CLAY						
634.0	Medium dense, brown SANDY LOAM	10		4	5 10 12	NP	20
633.5	Very stiff, brown SILTY CLAY to CLAY			5	10 10 10	2.46 B	15
		15		6	10 12 18	3.03 B	18
627.5	Very dense, gray SANDY LOAM			7	12 18 20	NP	22
625.0	Very dense, gray SILT	20		8	12 24 26	NP	14
623.5	Very stiff to hard, gray CLAY			9	8 10 14	2.87 B	14
		25		10	10 10 17	3.94 B	14
611.0	Very dense, gray SILT	30		11	10 16 24	4.76 B	14
				12	50 22 13	5.74 B	17
606.3	Hard, gray CLAY	35		13	23 36 50	NP	16
				14	11 14 23	4.92 B	15
596.3	Very dense, gray SILT	45		15	34 50/5	NP	23
		50		16	16 16 32	8.36 B	14

GENERAL NOTES

Begin Drilling: 01-14-2004 Complete Drilling: 01-14-2004
Drilling Contractor: TSC Drill Rig: GP 750 C TMR
Driller: J & J Logger: K. Jacob Checked by: S. Janowski
Drilling Method: 2.25" SSA to 10-feet; mud rotary therafter

WATER LEVEL DATA

While Drilling: ▽ 9.00 ft
At Completion of Drilling: ▼ 9.50 ft
Time After Drilling: NA
Depth to Water: ▽ NA

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

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Page 2 of 3

BORING LOG B-2

WEI Job No.: 272-05-01

Client: STV Incorporated
Project: IL Rte. 21 Bridge over Des Plaines River
Location: Sec. 19, T42N, R12E; Cook County, IL

Datum: NGVD
Elevation: 643.00 ft
North: ft
East: ft
Stations: 131+79.5
Offset: 13 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / Recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
596.3	Very dense, gray SILT	55		17	33 23 100/4	9.27 B	10
583.0	Exploratoratory drilling to bedrock surface : blind drilling to 109 feet. Bedrock surface never encountered.	60		18	45 75 77	NP	10
		65					
		70					
		75					
	Boring terminated at 109.00 ft	80					
		85					
		90					
		95					
		100					

GENERAL NOTES

Begin Drilling: 01-14-2004 Complete Drilling: 01-14-2004
Drilling Contractor: TSC Drill Rig: GP 750 C TMR
Driller: J & J Logger: K. Jacob Checked by: S. Janowski
Drilling Method: 2.25" SSA to 10-feet; mud rotary therafter

WATER LEVEL DATA

While Drilling: ▽ 9.00 ft
At Completion of Drilling: ▼ 9.50 ft
Time After Drilling: NA
Depth to Water: ▽ NA

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

Notes:

For the location of Borings see sheet S-01.
The Boring information is furnished to the Bidders and Contractors for whatever value they may derive therefrom and is to be used at their own risk.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
200 W. Monroe Street, Suite 1650
Chicago, IL 60606-5015
312/533-0655, FAX 312/553-0561

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 21
MILWAUKEE AVE. OVER DES PLAINES RIVER
F.A.P. ROUTE 374 SECTION 3268F-R-1
COOK COUNTY, SN 016-6566

BORING LOGS

DESIGN BY: APH DRAWN BY: APH
DATE: 02/05/08 CHECKED BY: JAW CHECKED BY: JAW