

FEDERAL PROJECT	STATE PROJECT	PARISH	SHEET NO.
111-22-3333	765-43-2109	Tangipahoa	

**STANDARD ABBREVIATIONS & DEFINITIONS**

<b>MATERIAL:</b> CL. = Clay CONC. = Concrete GRAV. = Gravel I.O. = Iron Ore LIG. = Lignite N.P. = Non-Plastic ORG. = Organic PT. = Peat RT. = Roots SA. = Sand SH. = Shell SI. = Silt VEG. = Vegetation WD. = Wood	<b>COLOR:</b> BR. = Brown BK. = Black BL. = Blue GR. = Gray GN. = Green PK. = Pink RD. = Red WH. = White YE. = Yellow	<b>STRUCTURE:</b> ALT. = Alternating LAM. = Laminated LEN. = Lens LYR. = Layer MOT. = Mottled PKT. = Pocket STK. = Streak STR. = Strata TRA. = Trace	<b>FAILURE MODE:</b> M.L. = Multiple Shear SL. = Slump S/S. = Slickensides V.S. = Vertical Shear YLD. = Yield 60°S. = Shear Angle
<b>SOIL PROPERTIES:</b> WET UNIT WEIGHT = Wet unit weight of in-place soil, (kN per cu. meter) determined by AASHTO T 208. MOISTURE CONTENT = Moisture Content of in-place soil, expressed as a percentage of the dry weight of the soil (%), determined by DOTD TR 403, Method B. LIQUID LIMIT & PLASTICITY INDEX = Standard Penetration Test, AASHTO T 208, number of blows, $N_{60}$ , per 0.3 meter of penetration, unless amount of penetration is shown otherwise. SPT = Unconsolidated Undrained triaxial test, ASTM D 2850, compressive strength (kN per sq. meter), of one specimen confined at noted pressure (kN per sq. meter). UU = Soil cohesion (kN per sq. meter). C = Soil angle of internal friction (degrees). Δ = Unconsolidated Undrained triaxial test, ASTM D 2850, three specimens (c - Δ). ♦ = Consolidated drained direct shear test, AASHTO T 236, (c - ♦). # = Pocket penetrometer strength, (kN per sq. meter).			
<b>MISCELLANEOUS:</b> ⊖ = Location and Identification of thin-walled tube sample, AASHTO T 207 ⊖ = Location and Identification of thin-walled tube sample, AASHTO T 207, with a portion of the sample saved for consolidation testing ⊖ = Location and Identification of SPT sample, AASHTO T 206 N.C. NO PENT. = No Cull, no preliminary 0.15 m driving prior to securing SPT data NO RECV. DIST. = No Penetration, unable to drive split-spoon sampler initial 0.15 m of the Standard Penetration Test 24 HRS = No Recovery, unable to recover sample for testing or classification = Disturbed sample recovered with thin-walled tube sampler = Water Table depth below ground surface recorded at noted time after completion of borehole = SOIL TYPE nomenclature is based on ASTM D 2487			

CORRELATION OF PENETRATION RESISTANCE AND SOIL PROPERTIES				
SOIL	DESIGNATION	"N" (blows per 0.3 m)	Approximate "q <sub>u</sub> " (kN per sq. meter)	
SAND AND SILT	VERY LOOSE	LESS THAN 4	LESS THAN 4	
	LOOSE	4 - 10	4 - 10	
	MEDIUM DENSE	10 - 30	10 - 30	
CLAY	VERY SOFT	LESS THAN 2	LESS THAN 25	
	SOFT	2 - 4	25 - 50	
	MEDIUM STIFF	4 - 8	50 - 100	
	STIFF	8 - 15	100 - 200	
	VERY STIFF	15 - 30	200 - 400	
	HARD	OVER 30	OVER 400	

PILE DATA						
LOCATION (BENT)	STATION	PLAN TIP ELEV.	CUT-OFF ELEV.	PLAN PILE LENGTH	ORDER LENGTH	AS BUILT TIP ELEV.
						MAX. ELEV.
						MIN. ELEV.
						AVG. ELEV.

**SOIL BORING LOGS AND TEST PILES**

gINT Example Project Location

DATE: \_\_\_\_\_ FIELD BOOK NO.: \_\_\_\_\_

STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

SQUAD LDR. \_\_\_\_\_ DATA ENTRY: \_\_\_\_\_ DETAILED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
MATERIALS & TESTING SECTION REVISED: NOV. 14, 1994

DATE	DESCRIPTION	BY

SOIL TYPE AND COLOR	WET LIMIT WEIGHT	MOISTURE CONTENT	LIQUID LIMIT	PLASTICITY INDEX	q <sub>c</sub>	SPT or UU	FAILURE MODE	SAMPLE NUMBER	DEPTH	ELEVATION	WATER TABLE	TEST PILE NO.					
												STA.:	LOCATION:	TYPE OF HAMMER:	DATE OF DRIVING:		
BR. SI. SA. W/TR. IR. OX.: ORG=2%	-	-	N	P					0	98.4		STA.:	LOCATION:	TYPE OF HAMMER:	DATE OF DRIVING:		
GR. SA.	-	-	N	P		N=12		D1	1	97.4	48 hrs						
	-	-	N	P		N=14		D2	2	96.4							
	-	-	N	P		N=14		D3	3	95.4							
W/TR.ORG. GR. CL. SA.	19.5	25	36	13				C5	4	94.4							
GR. & BR. CL.	17.3	48	106	75	11304	S/S		C6	5	93.4							
	18.1	40	--	--	10538	S/S		C6	6	92.4							
GR. LEAN CL.	18.2	34	44	24	6706	MS		C8	7	91.4							
GR. SI. CL. W/SA.	20.1	--	21	4		64 @ 138	YLD	C9	8	90.4							
W/TR. SA.	19.8	18	28	6	6419	S/S		C10	9	89.4							
GR. SA.	--	-	N	P		N=19		D11	10	88.4							
	--	-	N	P		N=27		D13	11	87.4							
	--	-	N	P		N=50		D14	12	86.4							
						N.C. N=50 25=50		D 15g	13	85.4							
GR. ELASTIC SI.	--	71	31			N=14		D 16c	14	84.4							
GROUND ELEVATION = SAME AS C/L STA 1+144 STRU# P03-30269-90157-1 LOWER BYERS LANE BRIDGE																	
BORING NO.: B-3																	
DATE MADE: 06/04/1998																	
STA.: 1+66																	
LOCATION: 10m left of C/L																	
DRIVING RESISTANCE (kN)																	

TEST PILE NO.:	DESIGN LOAD:	ULTIMATE CAPACITY:

SOIL TYPE AND COLOR	WET LIMIT WEIGHT	MOISTURE CONTENT	LIQUID LIMIT	PLASTICITY INDEX	q <sub>c</sub>	SPT or UU	FAILURE MODE	SAMPLE NUMBER	DEPTH	ELEVATION	WATER TABLE	TEST PILE NO.					
												STA.:	LOCATION:	TYPE OF HAMMER:	DATE OF DRIVING:		
BR. SI. SA. W/TR. IR. OX.: ORG=2%	-	-	N	P					0	100.1		STA.:	LOCATION:	TYPE OF HAMMER:	DATE OF DRIVING:		
GR. SA.	-	-	N	P		N=12		D1	1	99.1	48 hrs						
	-	-	N	P		N=14		D2	2	98.1							
	-	-	N	P		N=14		D3	3	97.1							
W/TR.ORG. GR. CL. SA.	19.5	25	36	13				C5	4	96.1							
GR. & BR. CL.	17.3	48	106	75	11304	S/S		C6	5	95.1							
	18.1	40	--	--	10538	S/S		C6	6	94.1							
GR. LEAN CL.	18.2	34	44	24	6706	MS		C8	7	93.1							
GR. SI. CL. W/SA.	20.1	--	21	4		64 @ 138	YLD	C9	8	92.1							
W/TR. SA.	19.8	18	28	6	6419	S/S		C10	9	91.1							
GR. SA.	--	-	N	P		N=19		D11	10	90.1							
	--	-	N	P		N=27		D13	11	89.1							
	--	-	N	P		N=50		D14	12	88.1							
						N.C. N=50 25=50		D 15g	13	87.1							
GR. ELASTIC SI.	--	71	31			N=14		D 16c	14	86.1							
GROUND ELEVATION = SAME AS C/L STA 1+144 STRU# P03-30269-90157-1 LOWER BYERS LANE BRIDGE																	
BORING NO.: B-2																	
DATE MADE: 06/03/1998																	
STA.: 1+55																	
LOCATION: 5m right of C/L																	
DRIVING RESISTANCE (kN)																	

TEST PILE NO.:	DESIGN LOAD:	ULTIMATE CAPACITY:

SOIL TYPE AND COLOR	WET LIMIT WEIGHT	MOISTURE CONTENT	LIQUID LIMIT	PLASTICITY INDEX	q <sub>c</sub>	SPT or UU	FAILURE MODE	SAMPLE NUMBER	DEPTH	ELEVATION	WATER TABLE	TEST PILE NO.					
												STA.:	LOCATION:	TYPE OF HAMMER:	DATE OF DRIVING:		
BR. SI. SA. W/TR. IR. OX.: ORG=2%	-	-	N	P					0	99.9		STA.:	LOCATION:	TYPE OF HAMMER:	DATE OF DRIVING:		
GR. SA.	-	-	N	P		N=12		D1	1	98.9	24 hrs						
	-	-	N	P		N=14		D2	2	97.9							
	-	-	N	P		N=14		D3	3	96.9							
W/TR.ORG. GR. CL. SA.	19.5	25	36	13				C5	4	95.9							
GR. & BR. CL.	17.3	48	106	75	11304	S/S		C6	5	94.9							
	18.1	40	--	--	10538	S/S		C6	6	93.9							
GR. LEAN CL.	18.2	34	44	24	6706	MS		C8	7	92.9							
GR. SI. CL. W/SA.	20.1	--	21	4		64 @ 138	YLD	C9	8	91.9							
W/TR. SA.	19.8	18	28	6	6419	S/S		C10	9	90.9							
GR. SA.	--	-	N	P		N=19		D11	10	89.9							
	--	-	N	P		N=27		D13	11	88.9							
	--	-	N	P		N=50		D14	12	87.9							
						N.C. N=50 25=50		D 15g	13	86.9							
GR. ELASTIC SI.	--	71	31			N=14		D 16c	14	85.9							
GROUND ELEVATION = SAME AS C/L STA 1+144 STRU# P03-30269-90157-1 LOWER BYERS LANE BRIDGE																	
BORING NO.: B-1																	
DATE MADE: 06/02/1998																	
STA.: 1+44																	
LOCATION: 1m left of C/L																	
DRIVING RESISTANCE (kN)																	

TEST PILE NO.:	DESIGN LOAD:	ULTIMATE CAPACITY: