

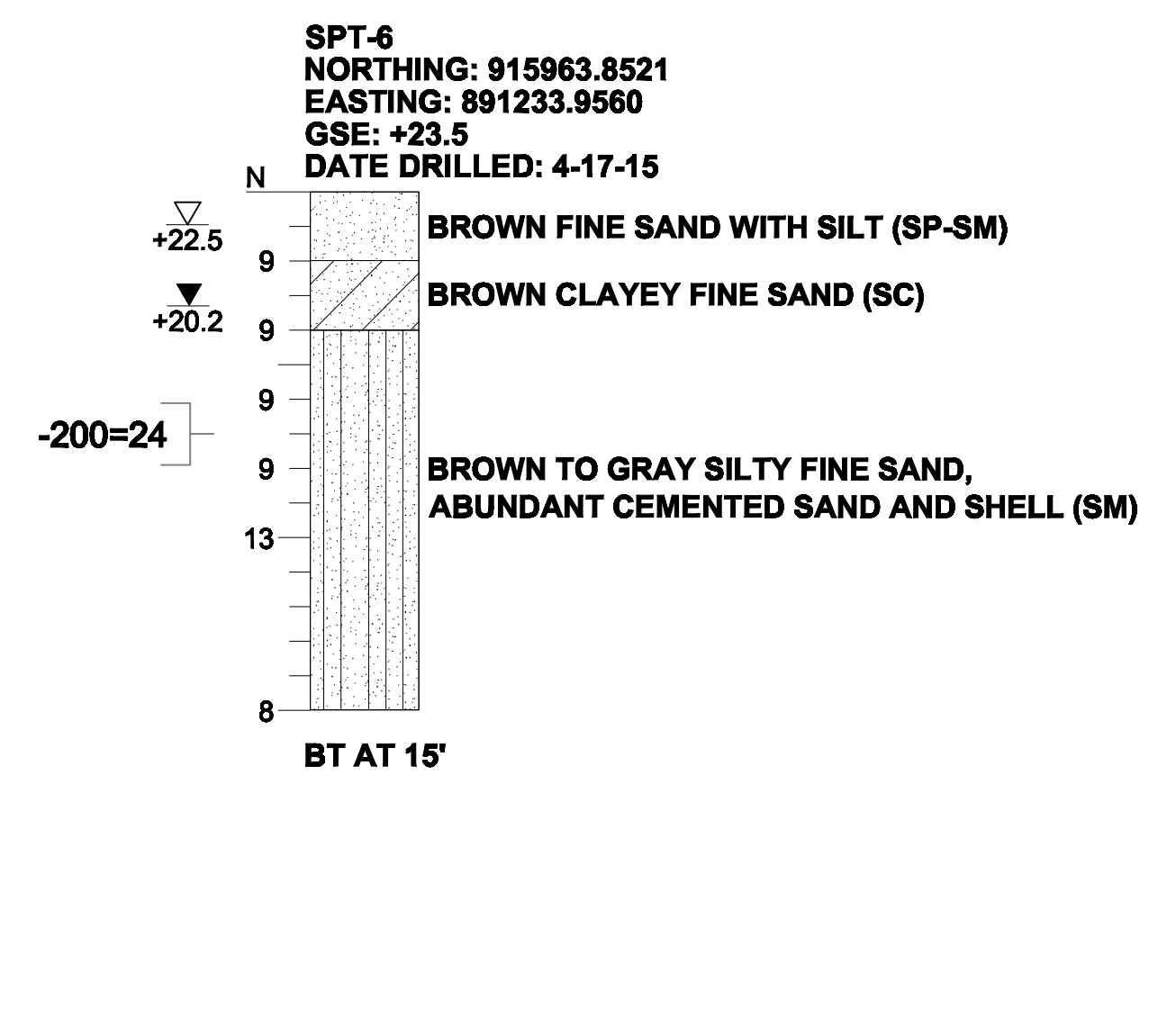
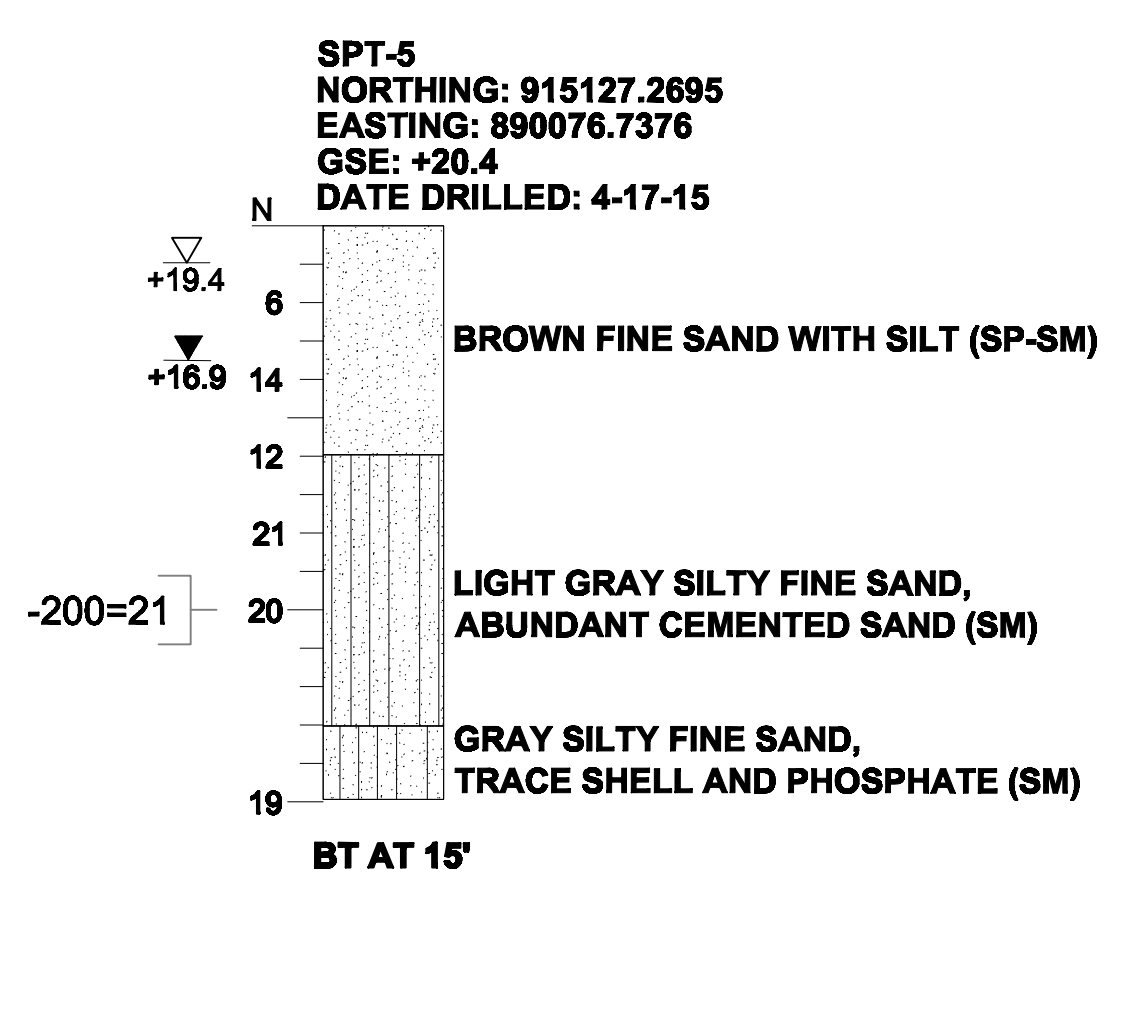
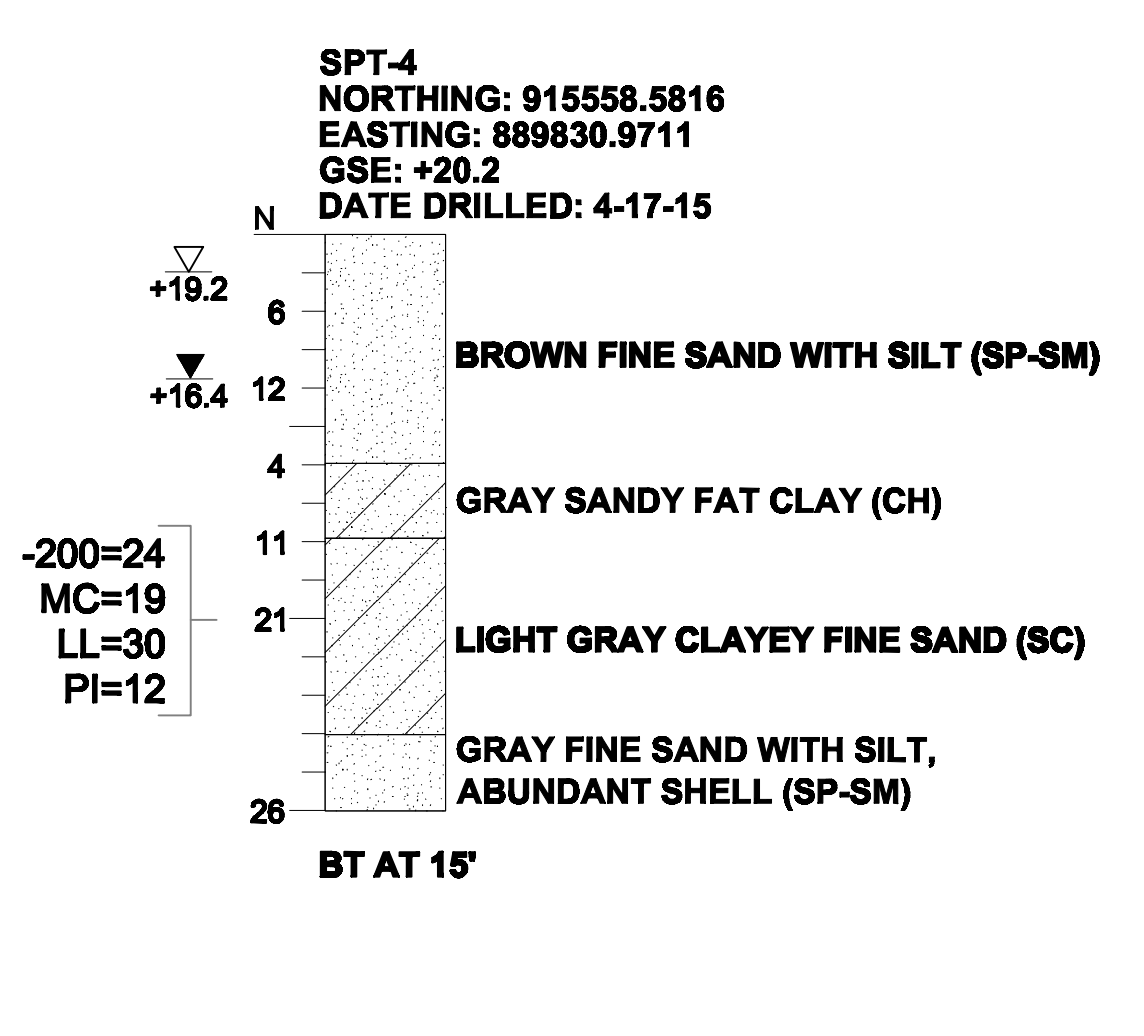
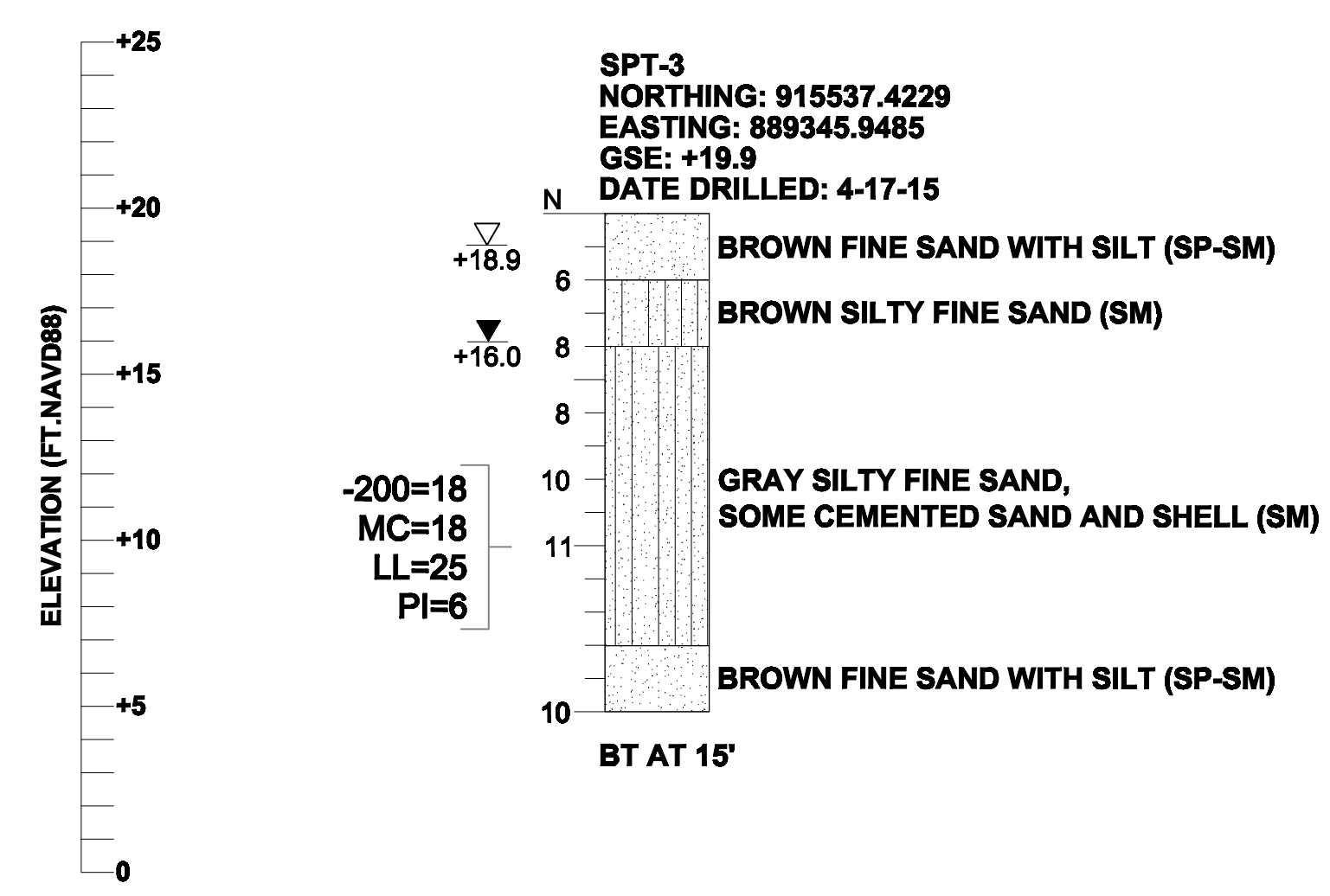
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**CONCESSION BUILDING**

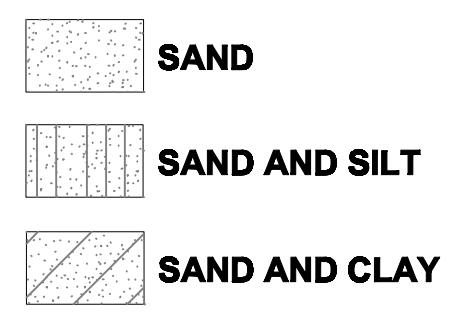
**PAVILLION**

**MAINTENANCE BUILDING**

**RESTROOM (DRY TOILET)**



- LEGEND**
- GSE GROUND SURFACE ELEVATION (FT.NAVD88)
  - N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
  - ▽ ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT.NAVD88)
  - ▼ ENCOUNTERED GROUNDWATER ELEVATION (FT.NAVD88) 24 HRS. AFTER DATE DRILLED
  - BT BORING TERMINATED AT DEPTH INDICATED
  - 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
  - MC= PERCENT NATURAL MOISTURE CONTENT
  - LL= LIQUID LIMIT
  - PI= PLASTICITY INDEX



**GENERAL NOTES**

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

THE BORING LOCATIONS WERE ESTABLISHED BY THE PROVIDED PROJECT PLANS AND WITH A SUB-METER ACCURACY GPS UNIT (TRIMBLE GEO 7X). THE GROUND SURFACE ELEVATIONS AT THE BORING LOCATIONS WERE INTERPOLATED BASED ON THE SPOT ELEVATIONS PROVIDED BY WANTMAN GROUP, INC.

**SPLIT SPOON SAMPLER:**  
 INSIDE DIAMETER: 1.375 IN.  
 OUTSIDE DIAMETER: 2.0 IN.  
 AVERAGE HAMMER DROP: 30 IN.  
 HAMMER WEIGHT: 140 LBS.

**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

SOIL TYPE	MANUAL HAMMER (SAFETY)	AUTOMATIC HAMMER	RELATIVE DENSITY
	N VALUE (blows per foot)	N VALUE (blows per foot)	
GRANULAR SOILS SANDS	0-4	0-3	VERY LOOSE
	4-10	3-8	LOOSE
	10-30	8-24	MEDIUM DENSE
	30-50	24-40	DENSE
	OVER 50	OVER 40	VERY DENSE
NON-GRANULAR SOILS SILTS, CLAYS, MUCK, PEAT	0-2	0-1	VERY SOFT
	2-4	1-3	SOFT
	4-8	3-6	FIRM
	8-15	6-12	STIFF
	15-30	12-24	VERY STIFF
	OVER 30	OVER 24	HARD

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.  
 919 Lake Baldwin Lane  
 Orlando, FL 32814  
 T 407-898-1818 F 407-898-1837  
 Certificate of Authorization No. 5882  
**DANIEL C. STANFILL PE NO. 42763**



PROJECT NO. 3747G  
 DATE \$DATE\$  
 DRAWN BY BMM  
 CHECKED BY GPB  
 CHECKED BY DCS 42763

**SPT BORING RESULTS  
 PALM BEACH COUNTY  
 SPORTS COMPLEX**

**FIGURE NO. 5**

G20

PHASE 2 CONSTRUCTION SET DATED 02-10-2017

NO.	REVISION	DATE	BY

SPT BORING RESULTS

PALM BEACH COUNTY SHOOTING SPORTS PARK



C. VARGAS & ASSOCIATES, LTD.  
 10000 WINDY HOLLOW LANE  
 BOCA RATON, FLORIDA 33433  
 PHONE: 561-993-1100  
 FAX: 561-993-1101  
 CERT. OF AUTH. NO. 00000778

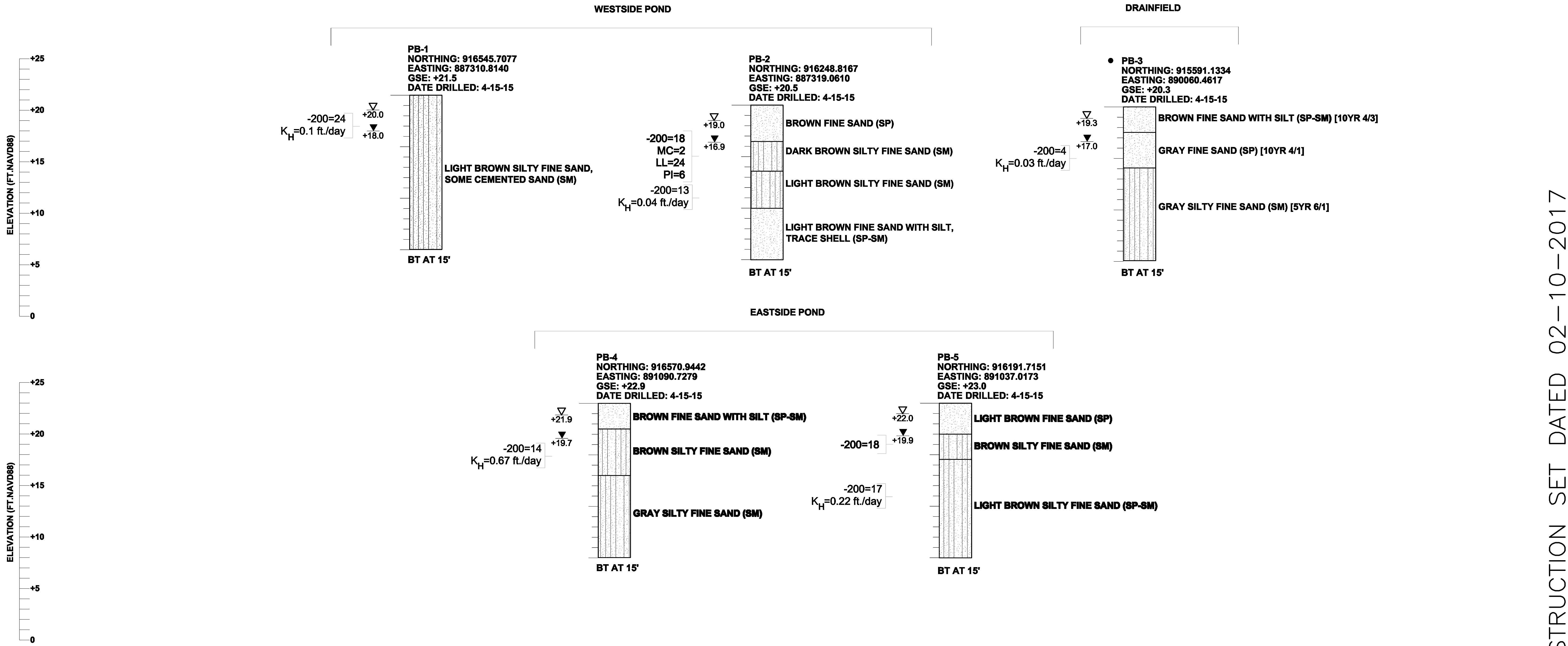
DRAWN BY  
 CHECKED BY C. VARGAS DATE 02-10-17  
 SUBMITTED BY  
 REC. ENGR. NO. 16297

C.A.D.D. FILE  
 PROJECT NO. 14023.04  
 SHEET  
 OF

DO NOT SCALE DRAWINGS

NOT APPROVED FOR CONSTRUCTION DATE: \_\_\_\_\_

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**LEGEND**

GSE GROUND SURFACE ELEVATION (FT.NAVD88)

▽ ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT.NAVD88)

▽ ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT.NAVD88)

▽ ENCOUNTERED GROUNDWATER ELEVATION (FT.NAVD88) 24 HRS. AFTER DATE DRILLED

BT **BORING TERMINATED AT DEPTH INDICATED**

-200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE

MC= PERCENT NATURAL MOISTURE CONTENT

LL= LIQUID LIMIT

PI= PLASTICITY INDEX

$K_H$ = HORIZONTAL PERMEABILITY RATE (FT./DAY)

SAND

SAND AND SILT

**GENERAL NOTES**

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

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• BORING LOCATION PB-3 (DRAINFIELD) ALSO DENOTES THE MUNSELL COLOR CLASSIFICATION

**GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.**  
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 Certificate of Authorization No. 5882

**GEC**

DANIEL C. STANFILL PE NO. 42763

PROJECT NO. 3747G  
 DATE \$DATES\$  
 DRAWN BY BMM  
 CHECKED BY GPB  
 CHECKED BY DCS 42763

**AUGER BORING RESULTS**  
**PALM BEACH COUNTY SPORTS COMPLEX**

**FIGURE NO.**  
**6**

G21

PHASE 2 CONSTRUCTION SET DATED 02-10-2017

C. VARGAS & ASSOCIATES, LTD. CONSULTING ENGINEERS 8808 ARLINGTON EXPRESSWAY PALM BEACH, FL 33410 PHONE 561-721-2254 FAX 561-722-2297 CERT. OF AUTH. NO. 00000278		PROJECT NO. 14023.04	DATE 02-10-17
DRAWN BY	CHECKED BY C. VARGAS	REG. ENGR. NO. 16297	DATE
C.A.D.D. FILE		PROJECT NO. 14023.04	
SHEET		OF	
APPROVED FOR CONSTRUCTION		DATE	
PALM BEACH COUNTY SHOOTING SPORTS PARK		AUGER BORING RESULTS	
NO.	REVISION	DATE	BY