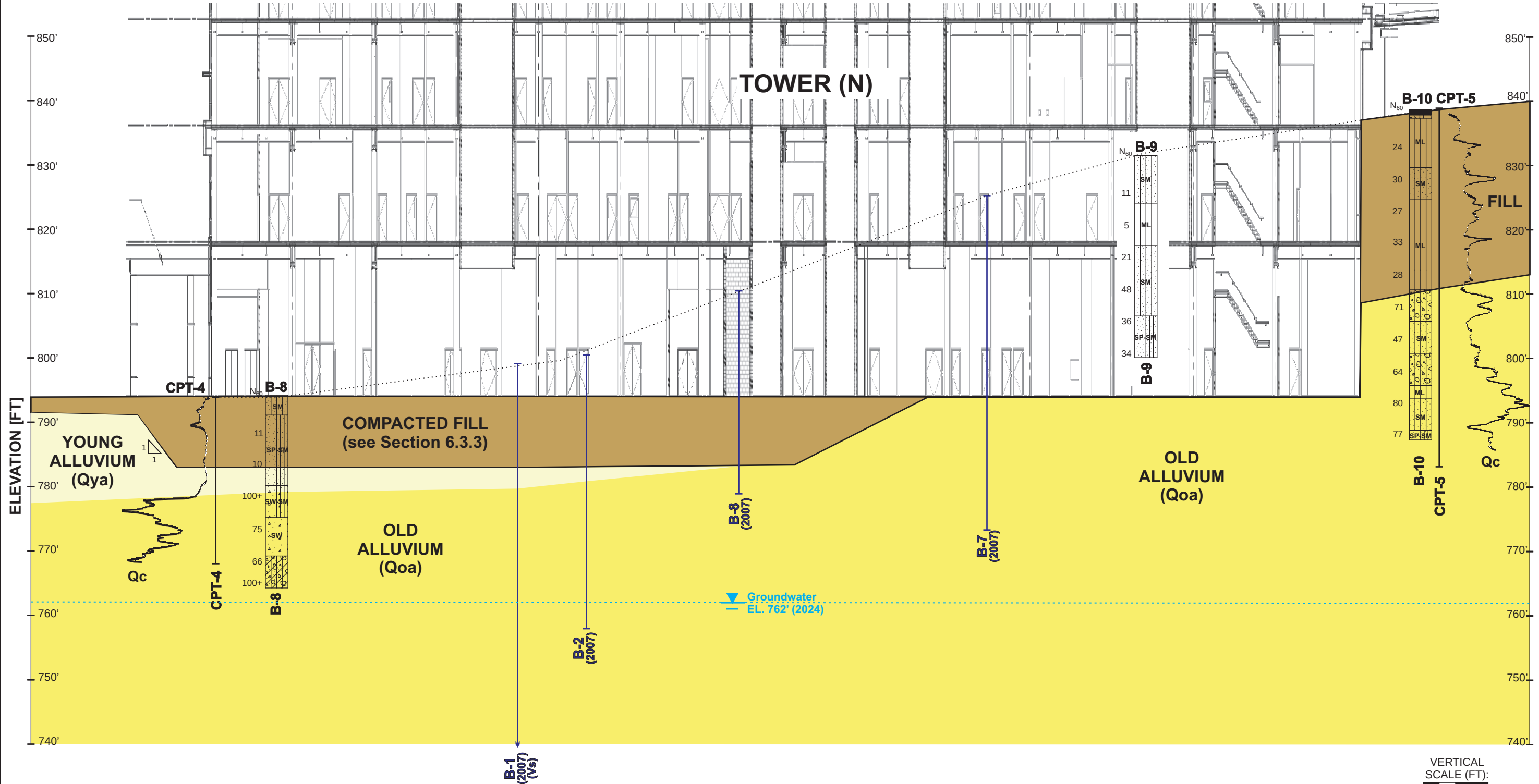


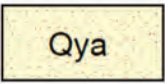




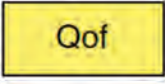
**EXPLANATION:**



**Artificial fill (Holocene):**  
Mostly silty sand, clayey sand and sandy silt placed in previous grading operations.



**Young Alluvium (Holocene):**  
Unconsolidated alluvium consisting of fine to coarse grained sand and lesser gravel and silt.



**Old Alluvium (Pleistocene):**  
Slightly indurated, sandy alluvial fan deposits associated with the Santa Ana River system.

|                                        |                                                                                                                                  |                                   |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                                        | GROUP DELTA CONSULTANTS, INC.<br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 | PROJECT NUMBER<br><b>SD809</b>    |
|                                        | PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                      | DOCUMENT NUMBER<br><b>24-0011</b> |
|                                        | FIGURE NUMBER<br><b>4C</b>                                                                                                       |                                   |
| <b>CROSS SECTION B-B' (TOWER SITE)</b> |                                                                                                                                  |                                   |



HISTORICAL SEISMICITY



>M6 EQ



>M6-M5



>M5-M4

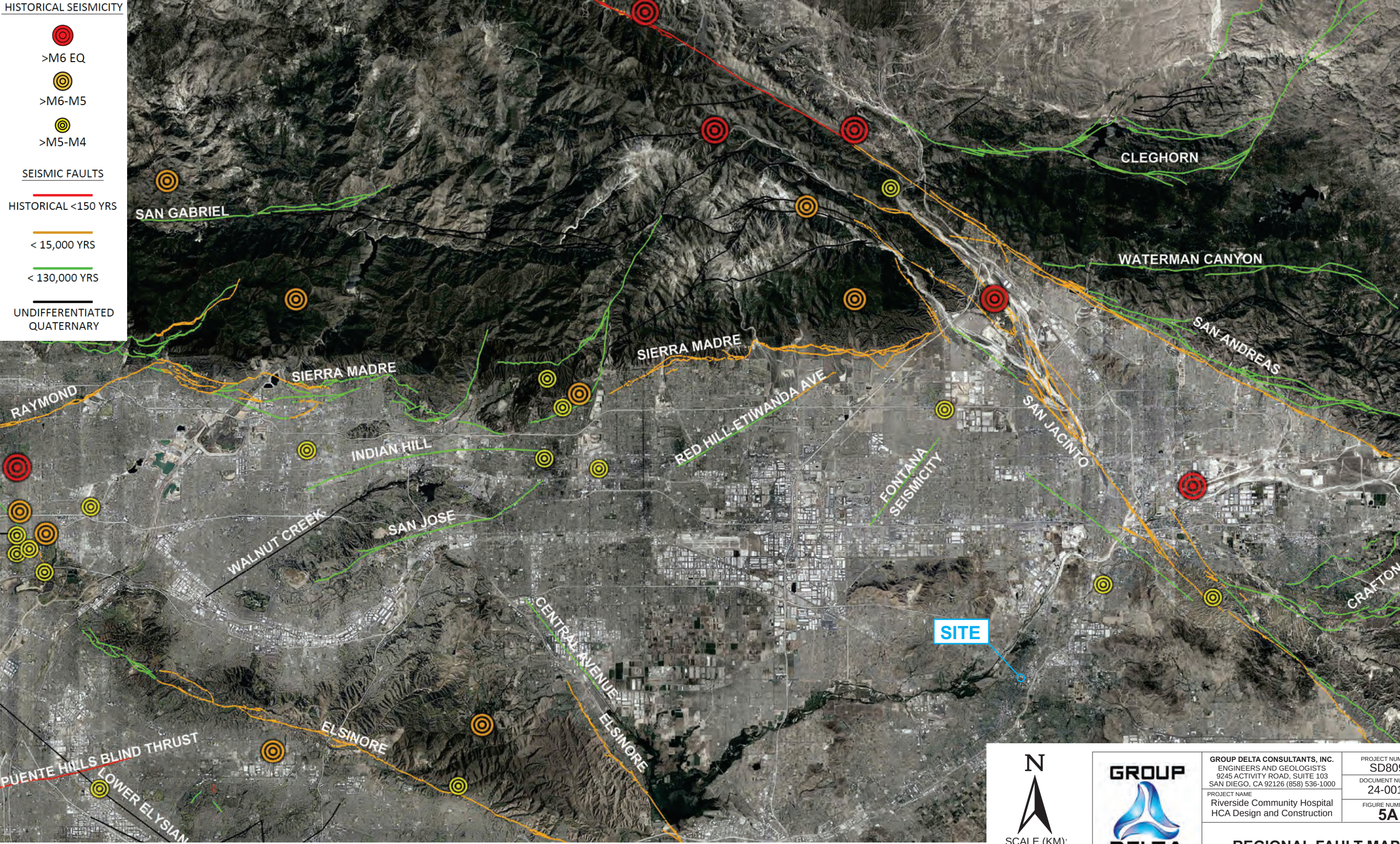
SEISMIC FAULTS

HISTORICAL <150 YRS

< 15,000 YRS

< 130,000 YRS

UNDIFFERENTIATED  
QUATERNARY



REFERENCE: Google Earth (2022). USGS Quaternary Fault and Fold Database, Imagery Date: May 30.



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HCA Design and Construction

PROJECT NUMBER  
SD809  
DOCUMENT NUMBER  
24-0011  
FIGURE NUMBER  
5A

REGIONAL FAULT MAP





**EXPLANATION:**

 **FEMA 100-Year Flood Zone AE:**  
The approximate limits of the FEMA 100-year flood within the Tequesquite Arroyo are shown in blue.

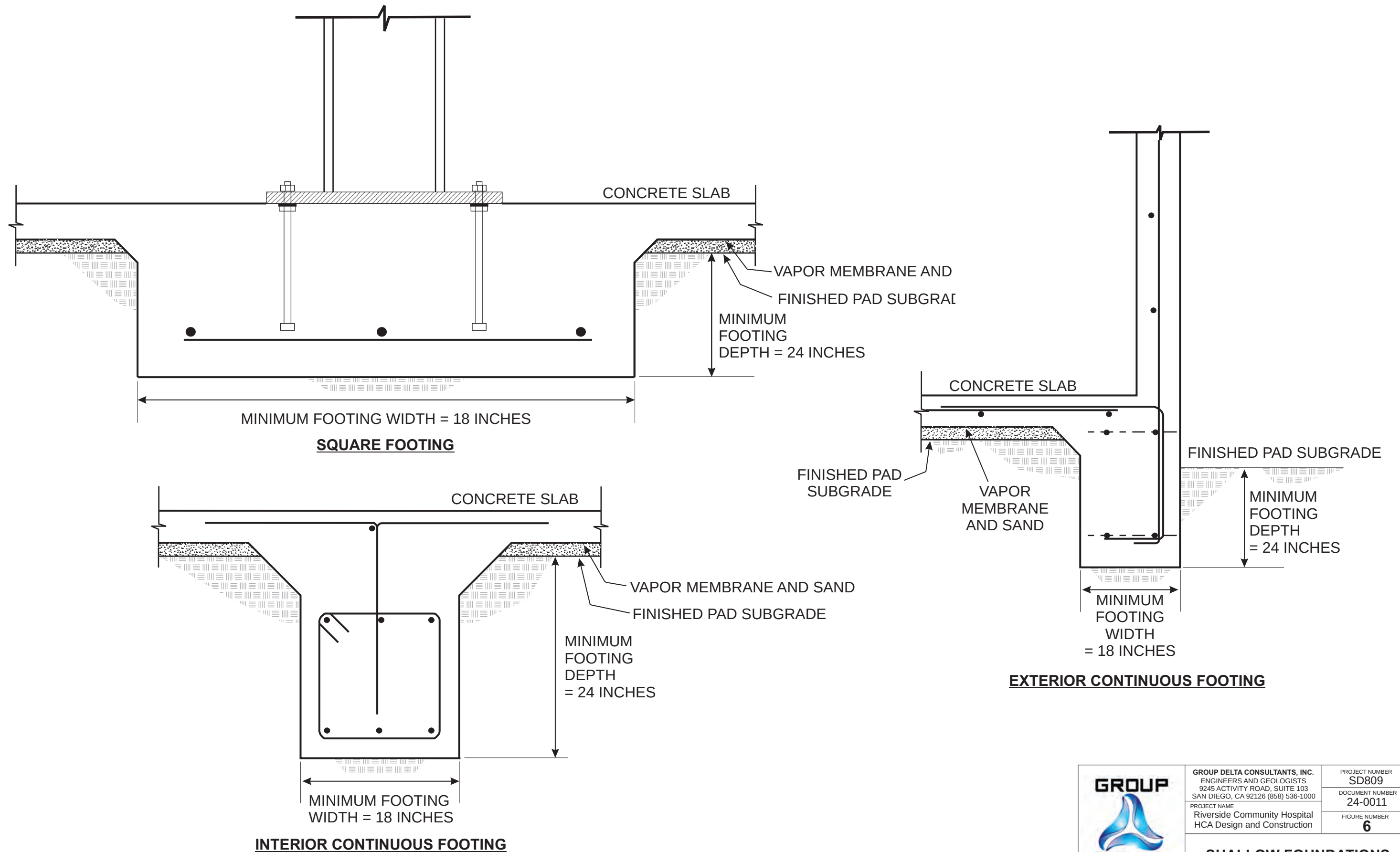
 **FEMA 100-Year Flood Elevations:**  
The approximate elevations of the 100-year flood within the Tequesquite Arroyo is also shown [MSL].

**Reference:** FEMA (2021). *FEMA's National Flood Hazard Layer (NFHL) Viewer*, Map 06065C0710G, <https://hazards-fema.maps.arcgis.com/apps/webappviewer>.



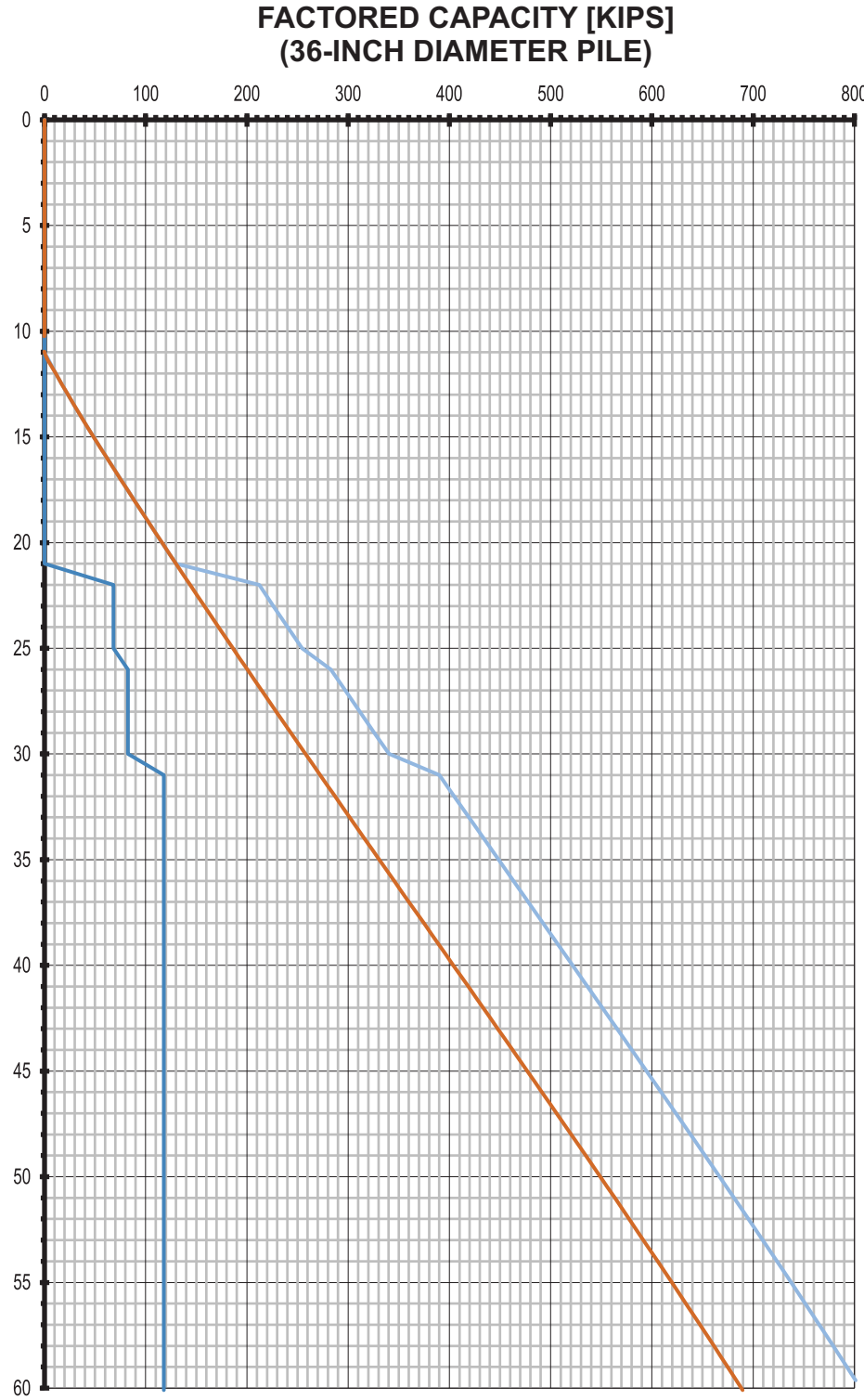
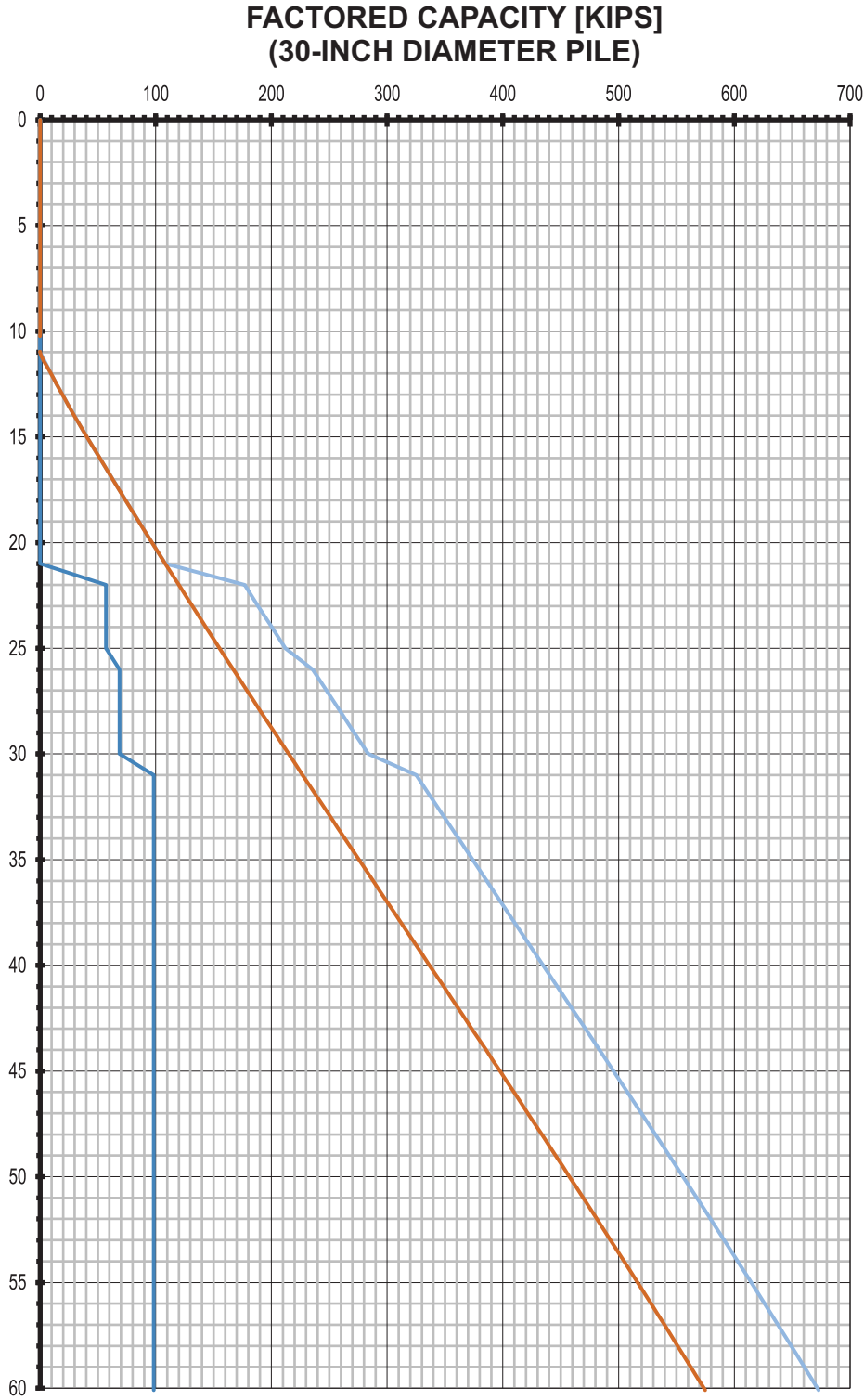
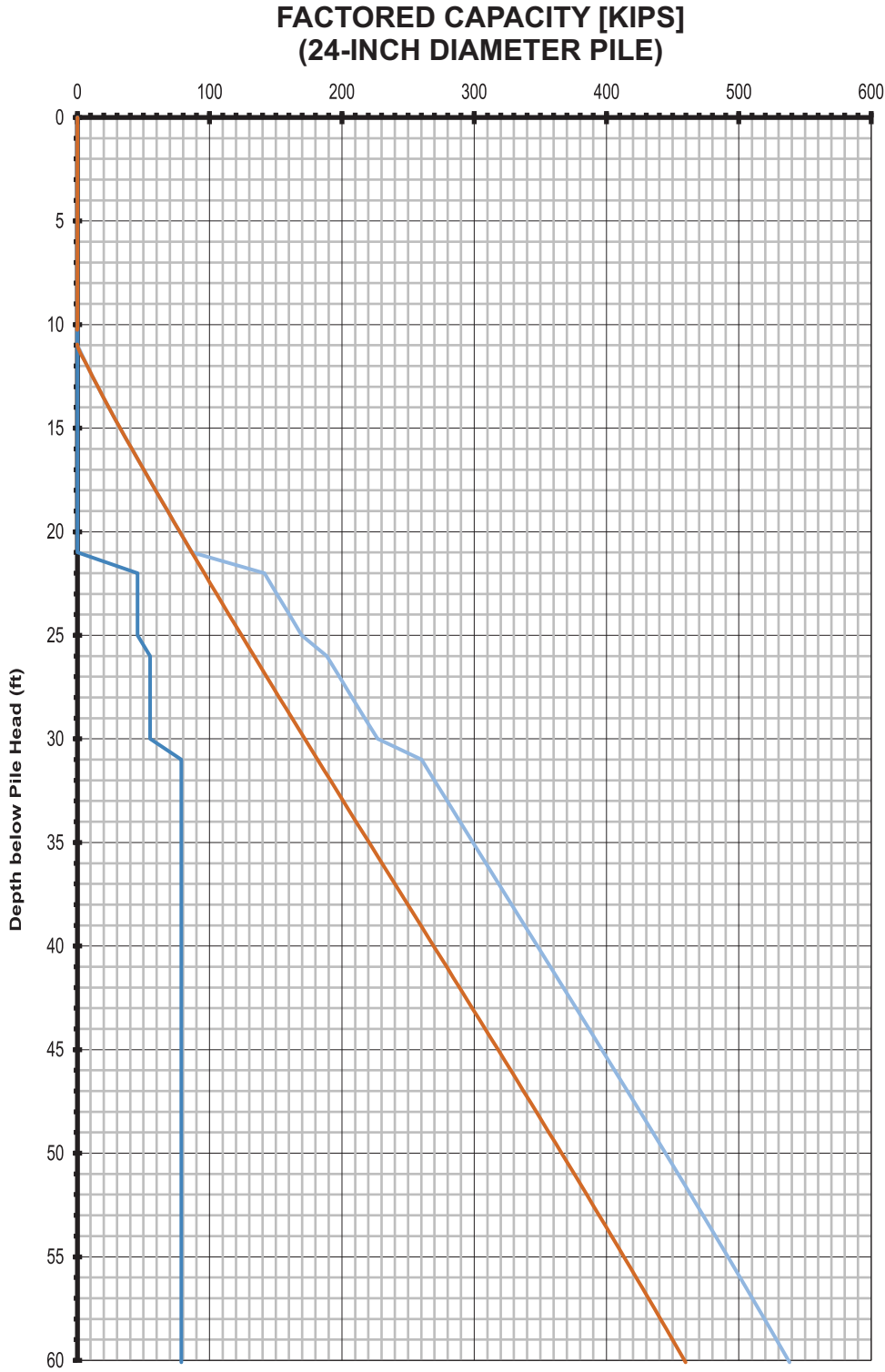
|                                                                                       |                                                                                                                                  |  |                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
|  | GROUP DELTA CONSULTANTS, INC.<br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 |  | PROJECT NUMBER<br>SD809    |
|                                                                                       | PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                      |  | DOCUMENT NUMBER<br>24-0011 |
|                                                                                       | FEMA FLOOD MAP                                                                                                                   |  | FIGURE NUMBER<br>5B        |





|                                                                                       |                                                                                                                                         |               |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|
|  | <b>GROUP DELTA CONSULTANTS, INC.</b><br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 |               |
|                                                                                       | PROJECT NUMBER                                                                                                                          | SD809         |
|                                                                                       | DOCUMENT NUMBER                                                                                                                         | 24-0011       |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction           |                                                                                                                                         | FIGURE NUMBER |
|                                                                                       |                                                                                                                                         | 6             |
| <b>SHALLOW FOUNDATIONS</b>                                                            |                                                                                                                                         |               |





**NOTES:**

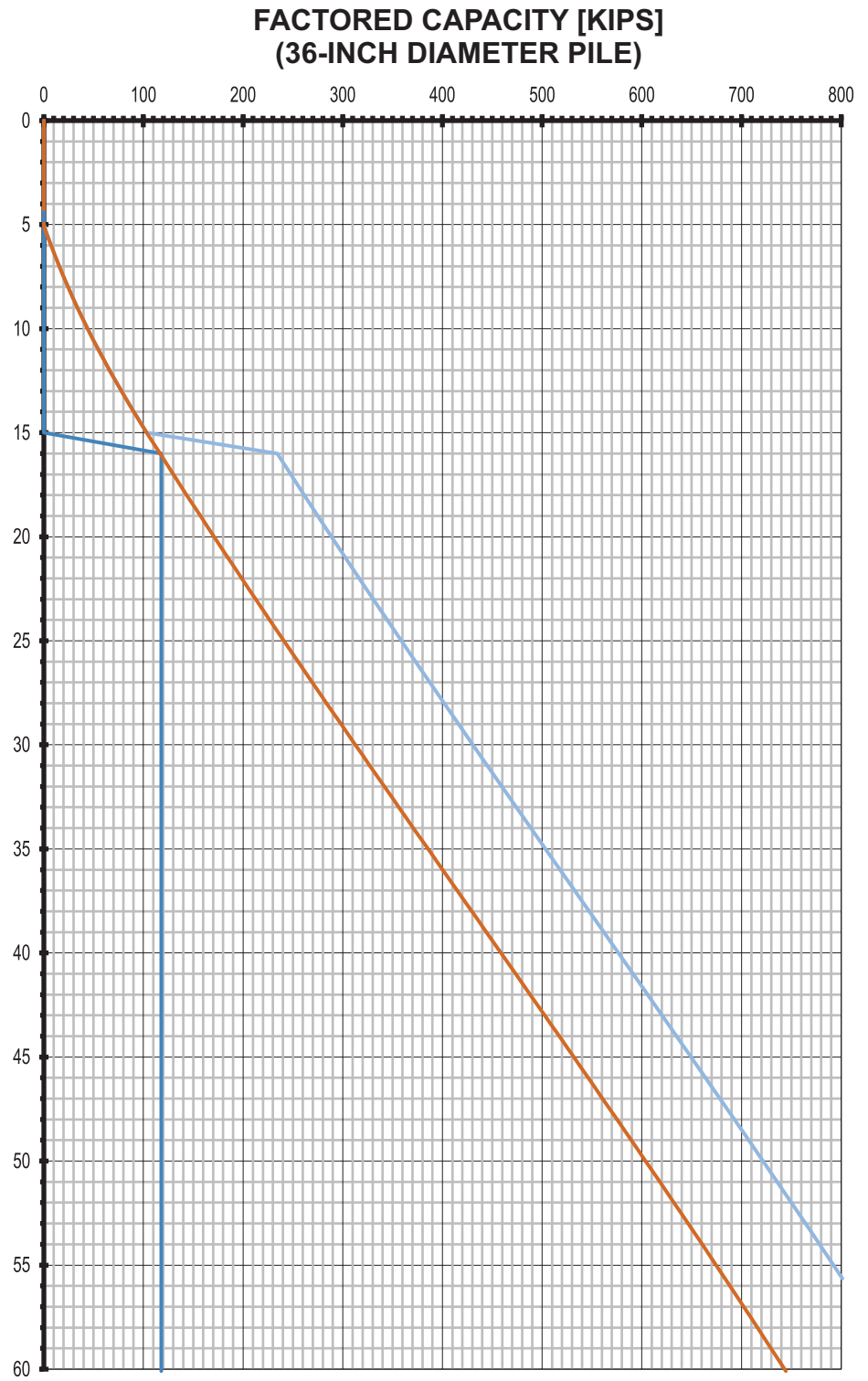
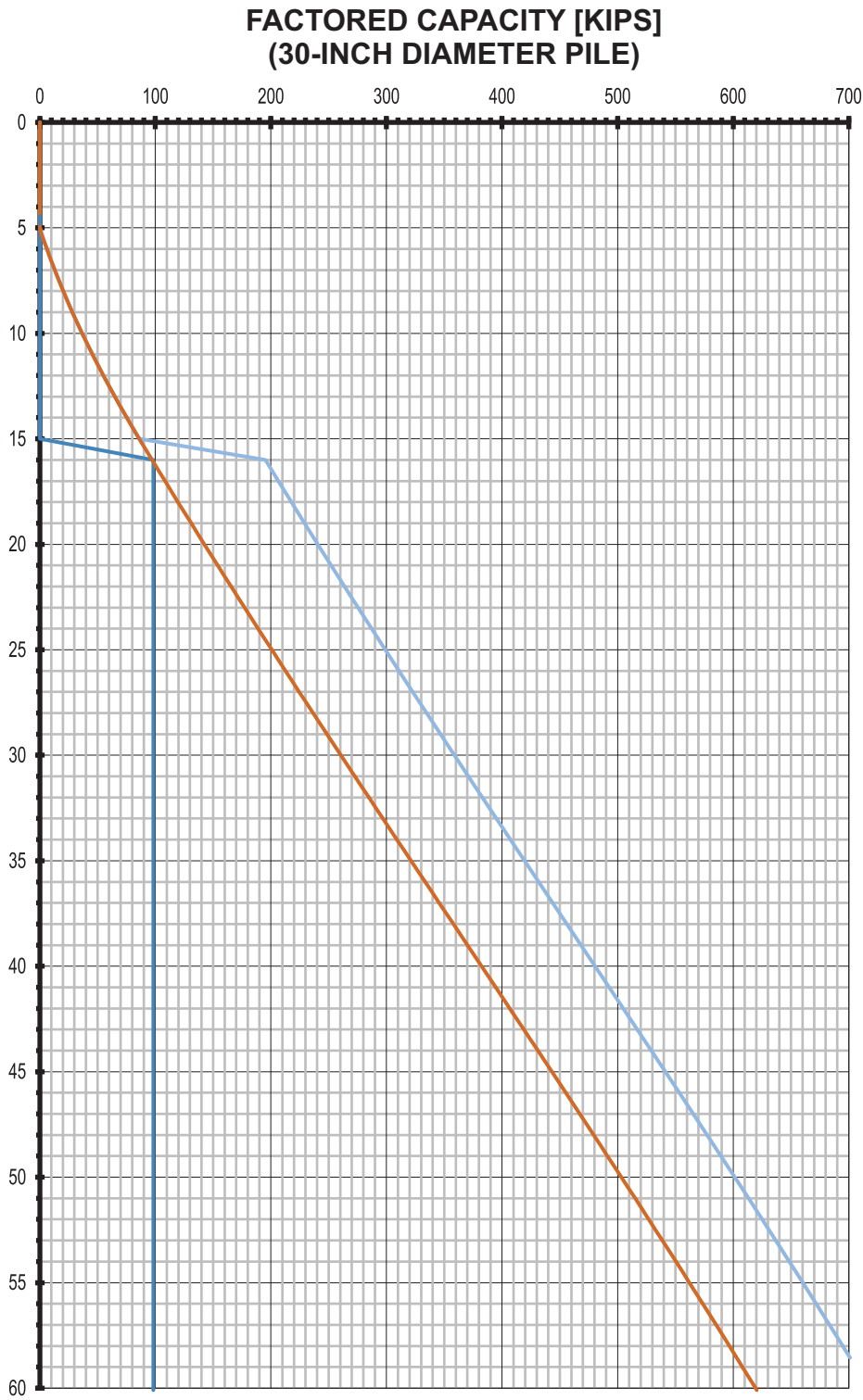
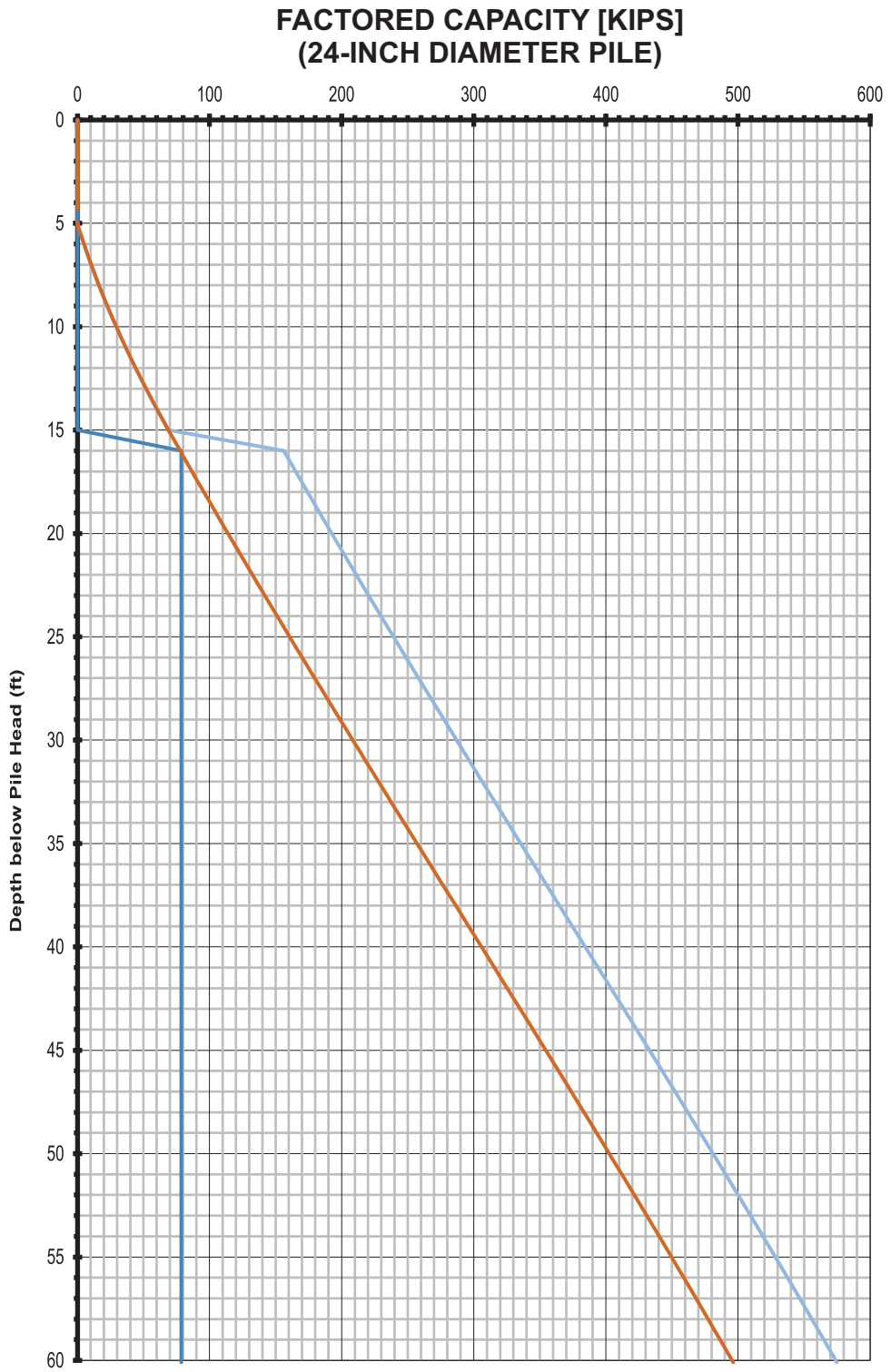
- 1) Pile uplift capacity is 0.7 times the factored skin friction shown above.
- 2) All piles should be embedded at least 10-feet into dense Old Alluvium.





|                                                                                                                                                                                                                                       |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000<br><small>PROJECT NAME</small><br>Riverside Community Hospital<br>HCA Design and Construction | <small>PROJECT NUMBER</small><br><b>SD809</b>    |
|                                                                                                                                                                                                                                       | <small>DOCUMENT NUMBER</small><br><b>24-0011</b> |
|                                                                                                                                                                                                                                       | <small>FIGURE NUMBER</small><br><b>7A</b>        |
| <b>AXIAL PILE CAPACITY</b><br>(GARAGE SITE - NORTH)                                                                                                                                                                                   |                                                  |





**NOTES:**

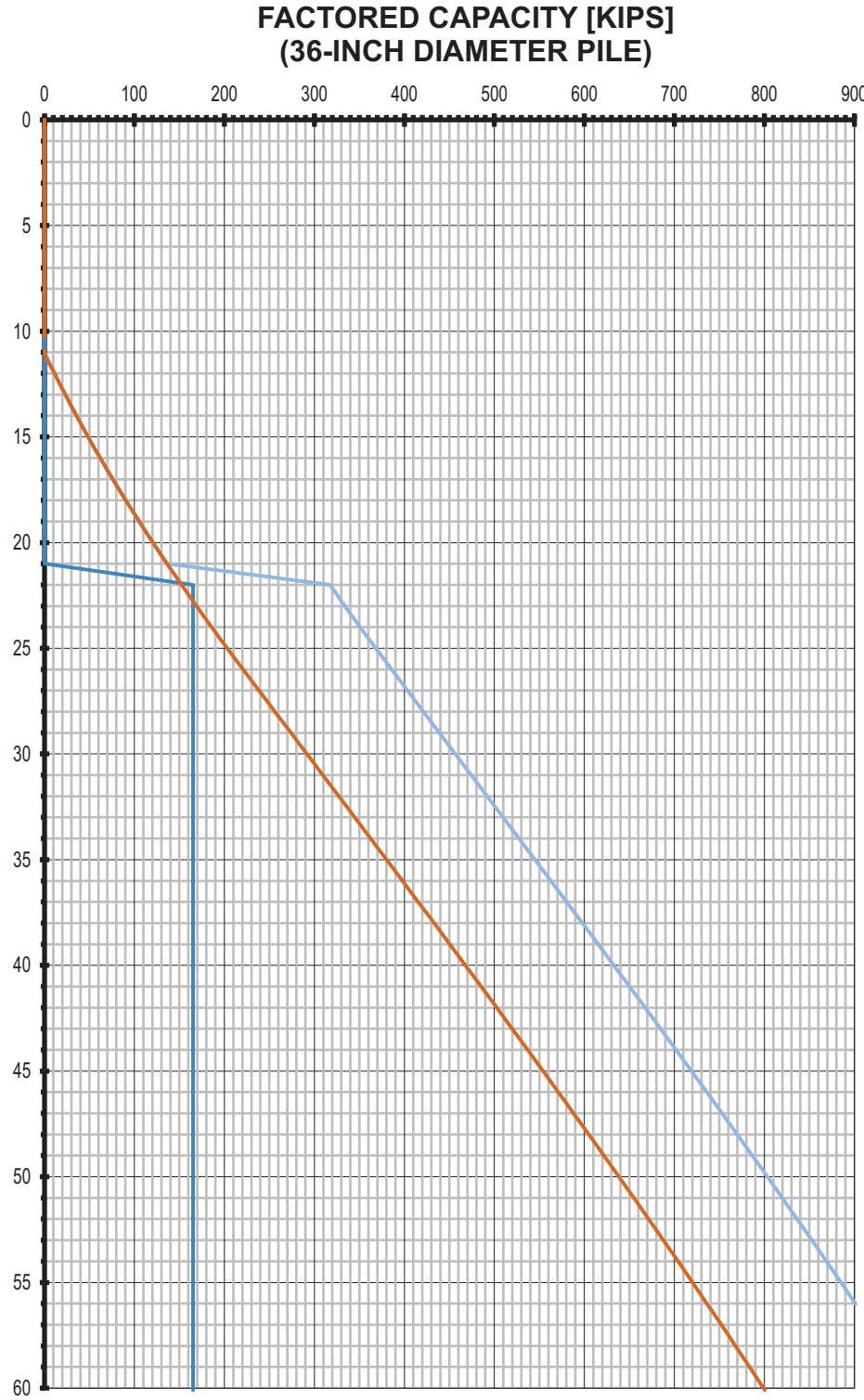
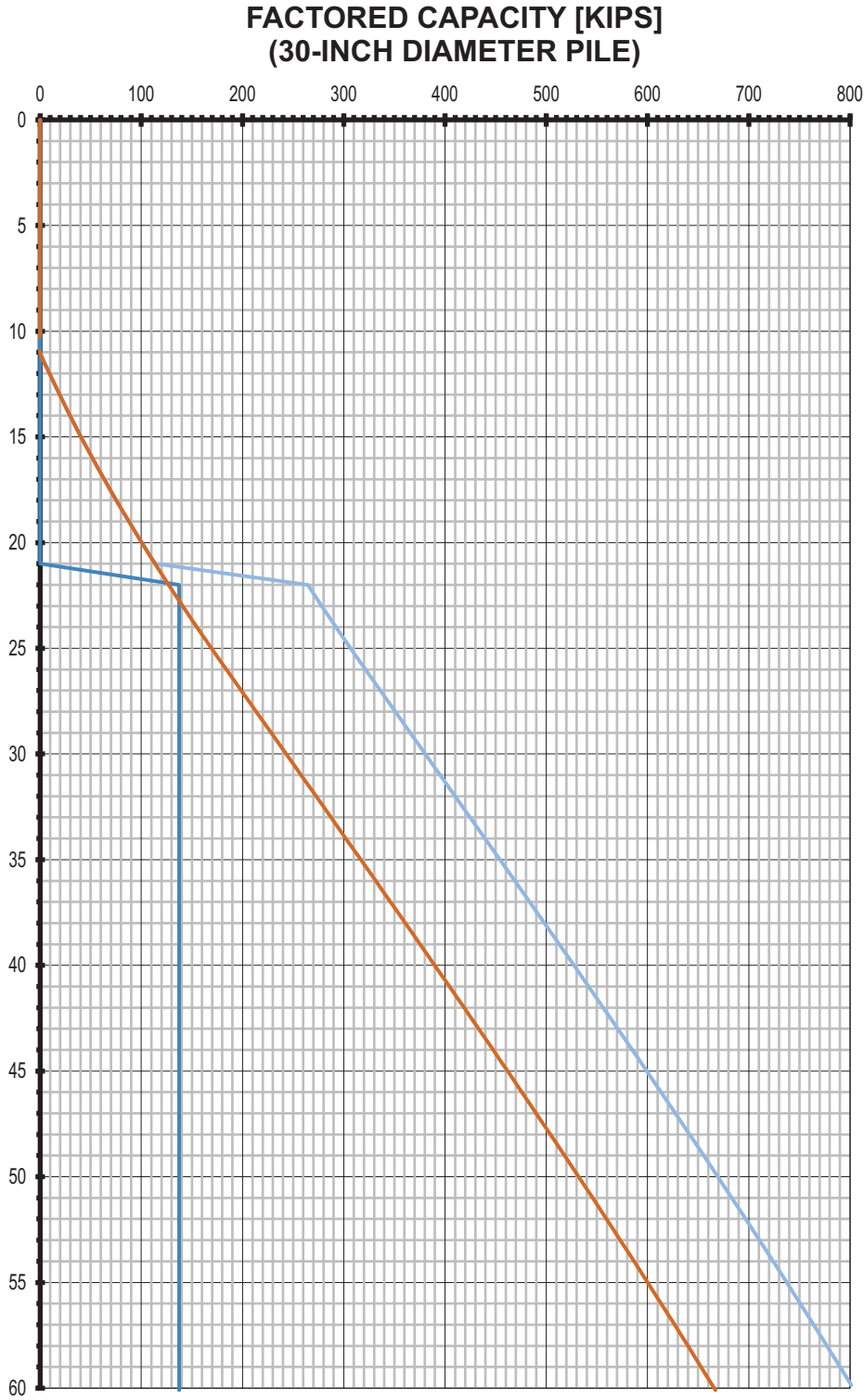
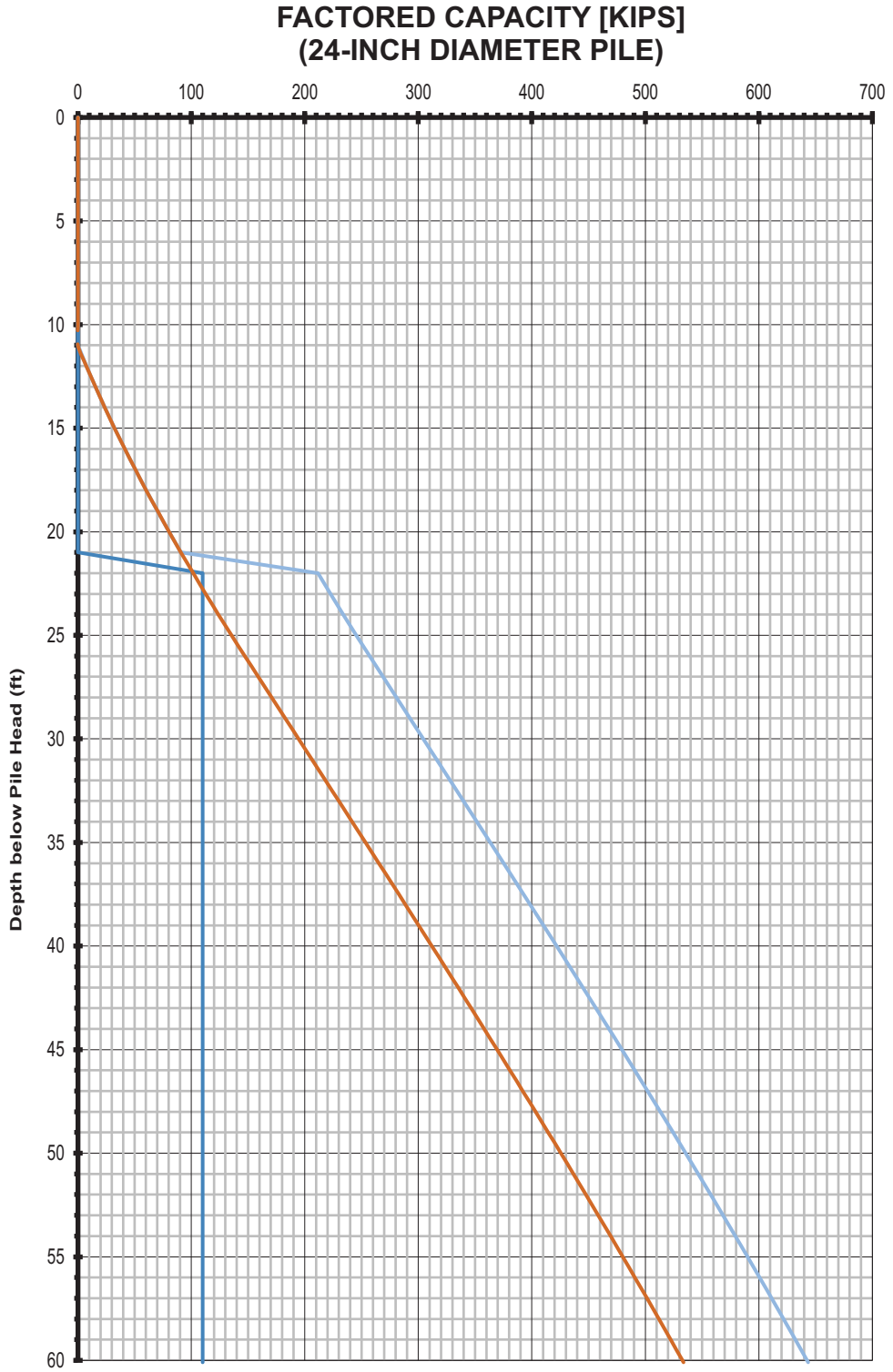
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|                                                                                                                                         |                 |         |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
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|                                                                                                                                         | DOCUMENT NUMBER | 24-0011 |
|                                                                                                                                         | FIGURE NUMBER   | 7B      |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                             |                 |         |
| <b>AXIAL PILE CAPACITY<br/>(GARAGE SITE - SOUTH)</b>                                                                                    |                 |         |





**NOTES:**

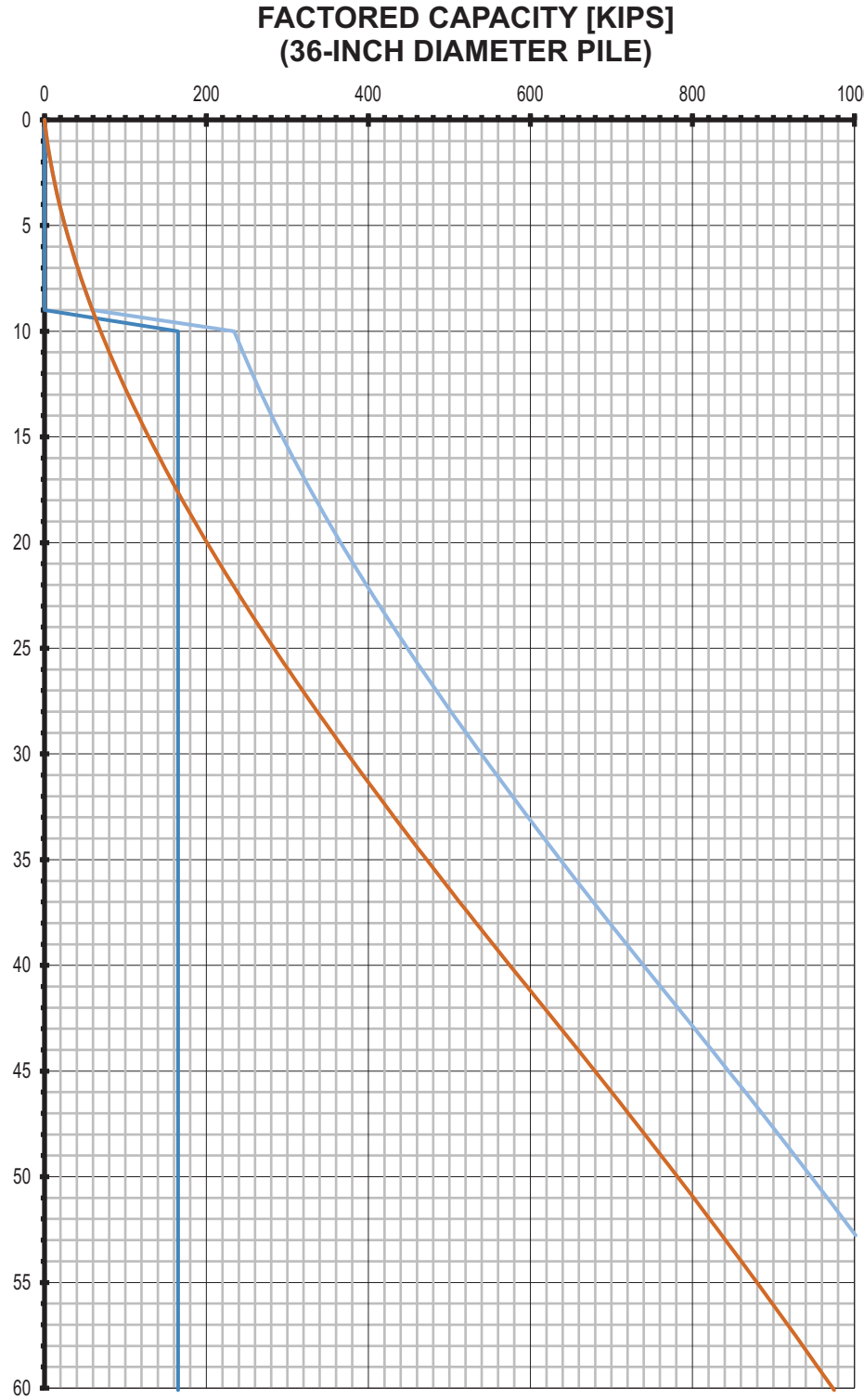
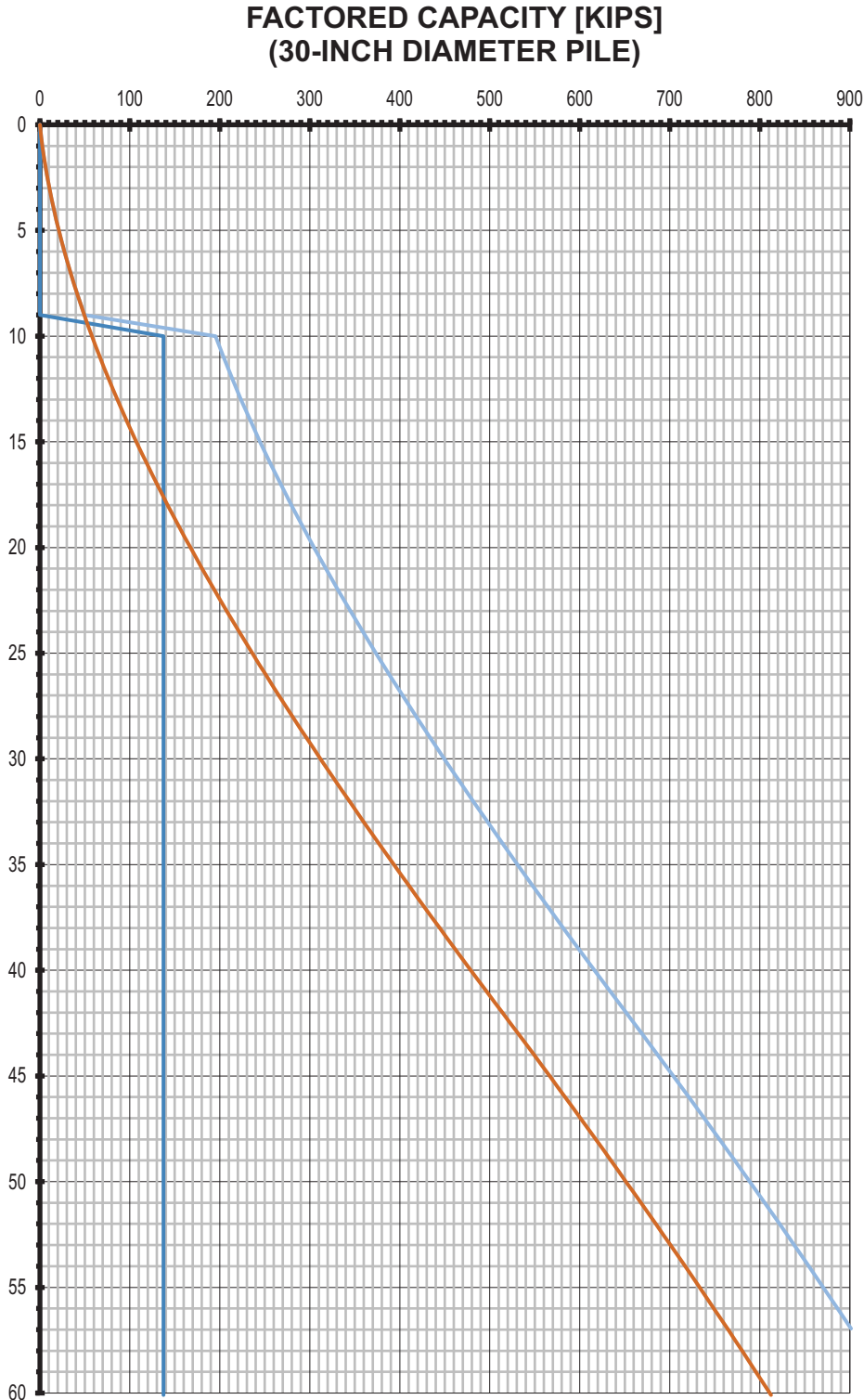
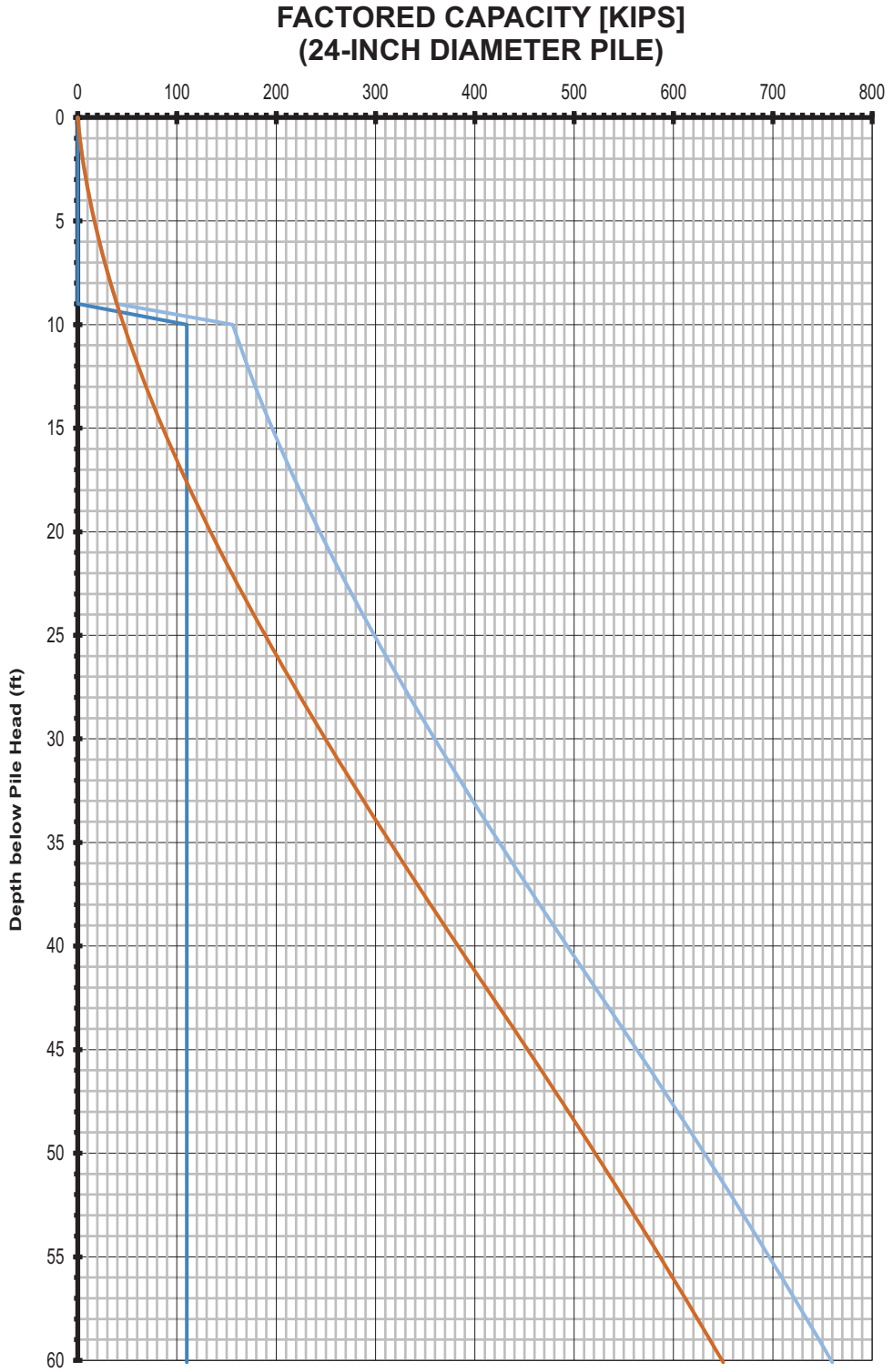
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|                                                                                                                                         |                 |         |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 | PROJECT NUMBER  | SD809   |
|                                                                                                                                         | DOCUMENT NUMBER | 24-0011 |
|                                                                                                                                         | FIGURE NUMBER   | 7C      |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                             |                 |         |
| <b>AXIAL PILE CAPACITY</b><br>(TOWER SITE - WEST)                                                                                       |                 |         |





**NOTES:**

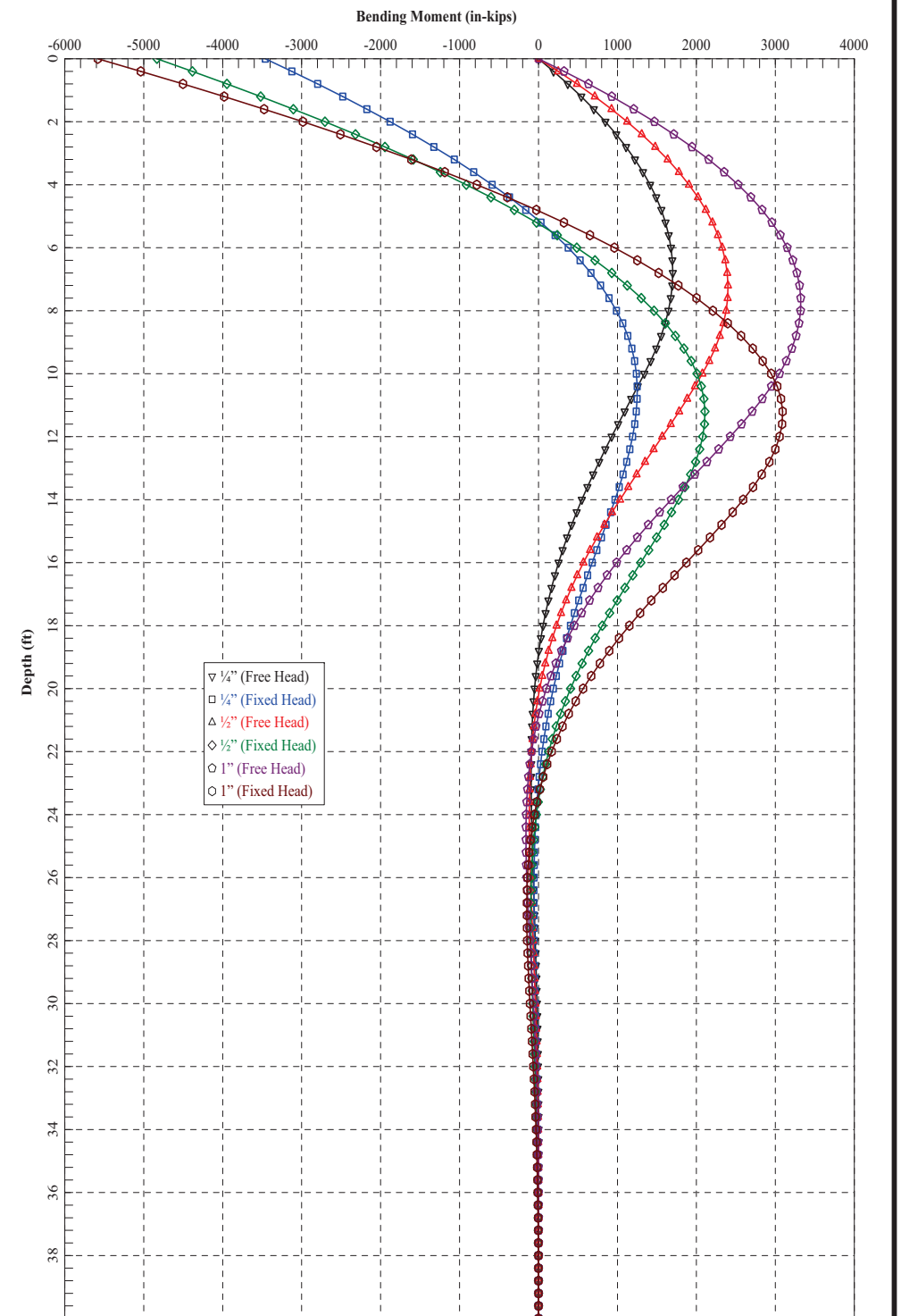
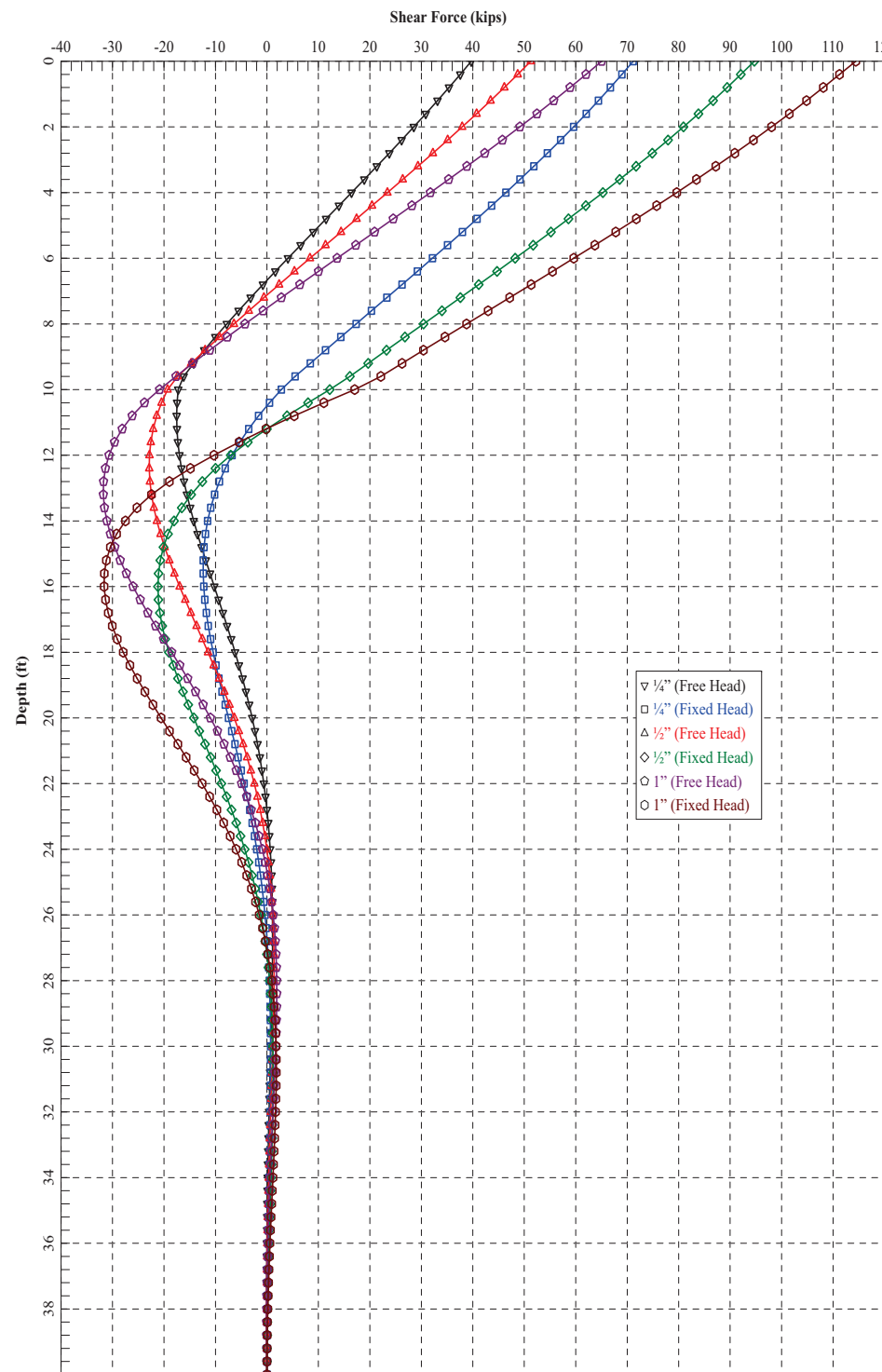
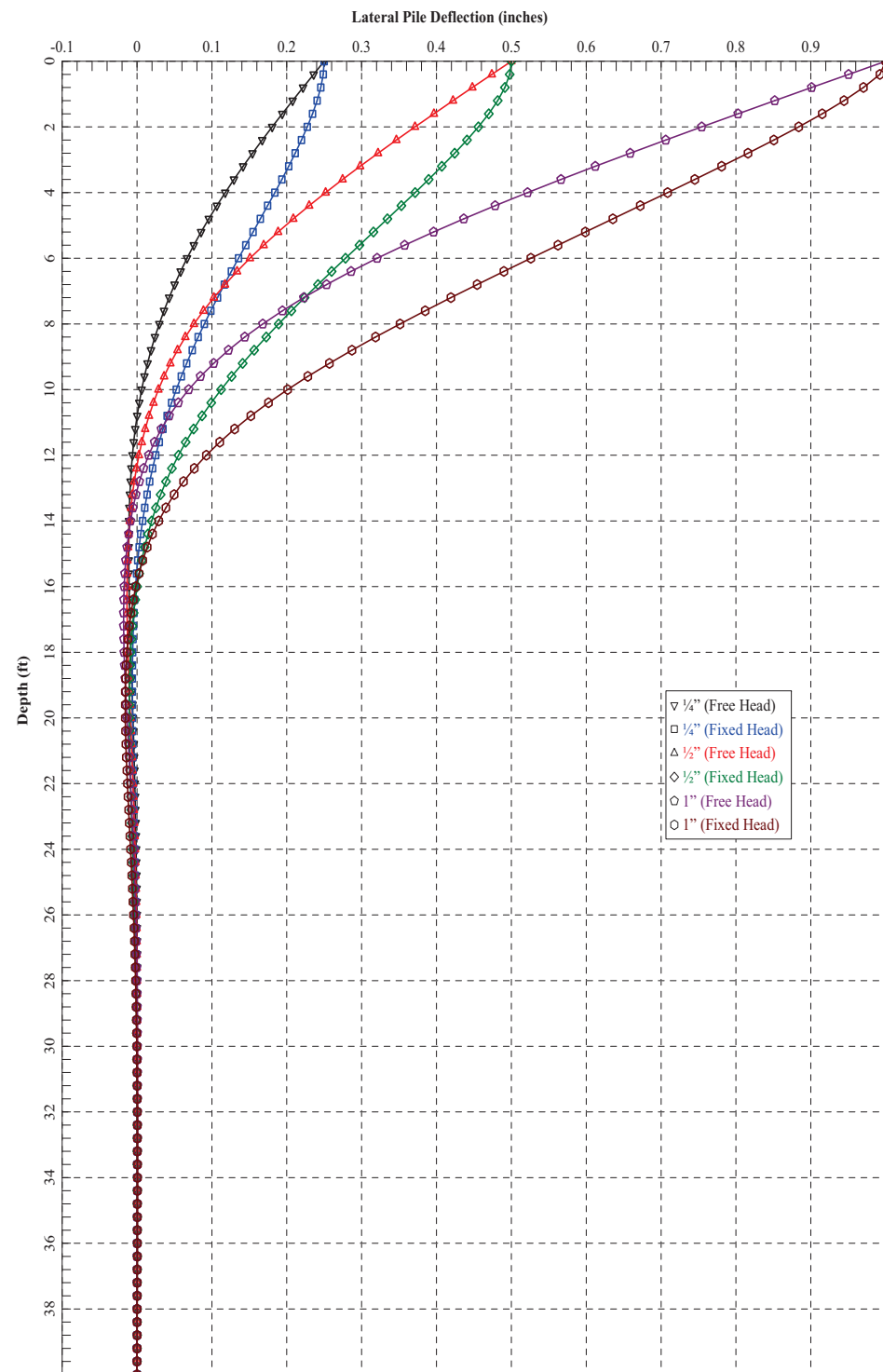
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|                                                                                                                                         |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 | PROJECT NUMBER<br><b>SD809</b>    |
|                                                                                                                                         | DOCUMENT NUMBER<br><b>24-0011</b> |
|                                                                                                                                         | FIGURE NUMBER<br><b>7D</b>        |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                             |                                   |
| <b>AXIAL PILE CAPACITY<br/>(TOWER SITE - EAST)</b>                                                                                      |                                   |





**NOTES:**

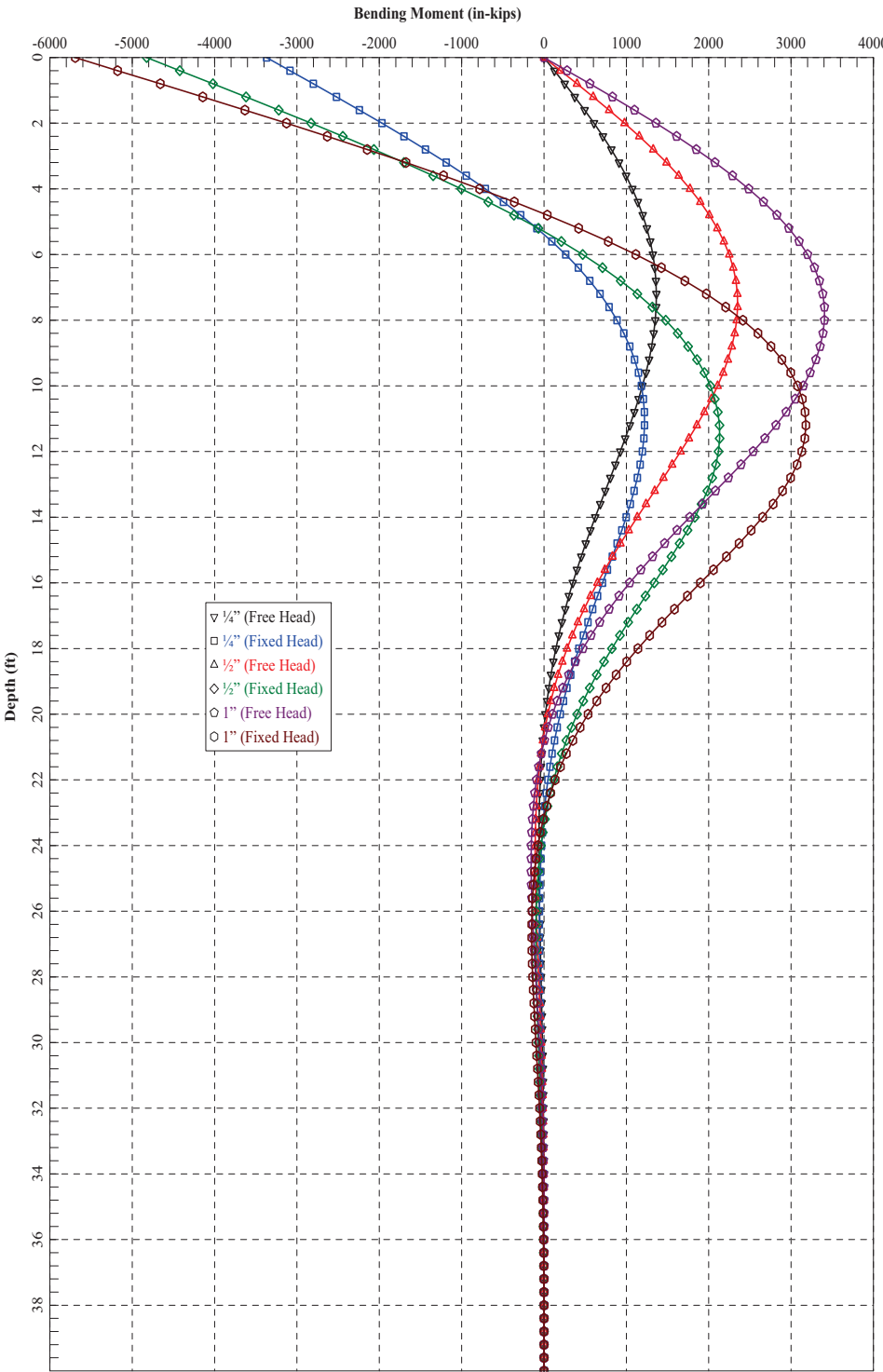
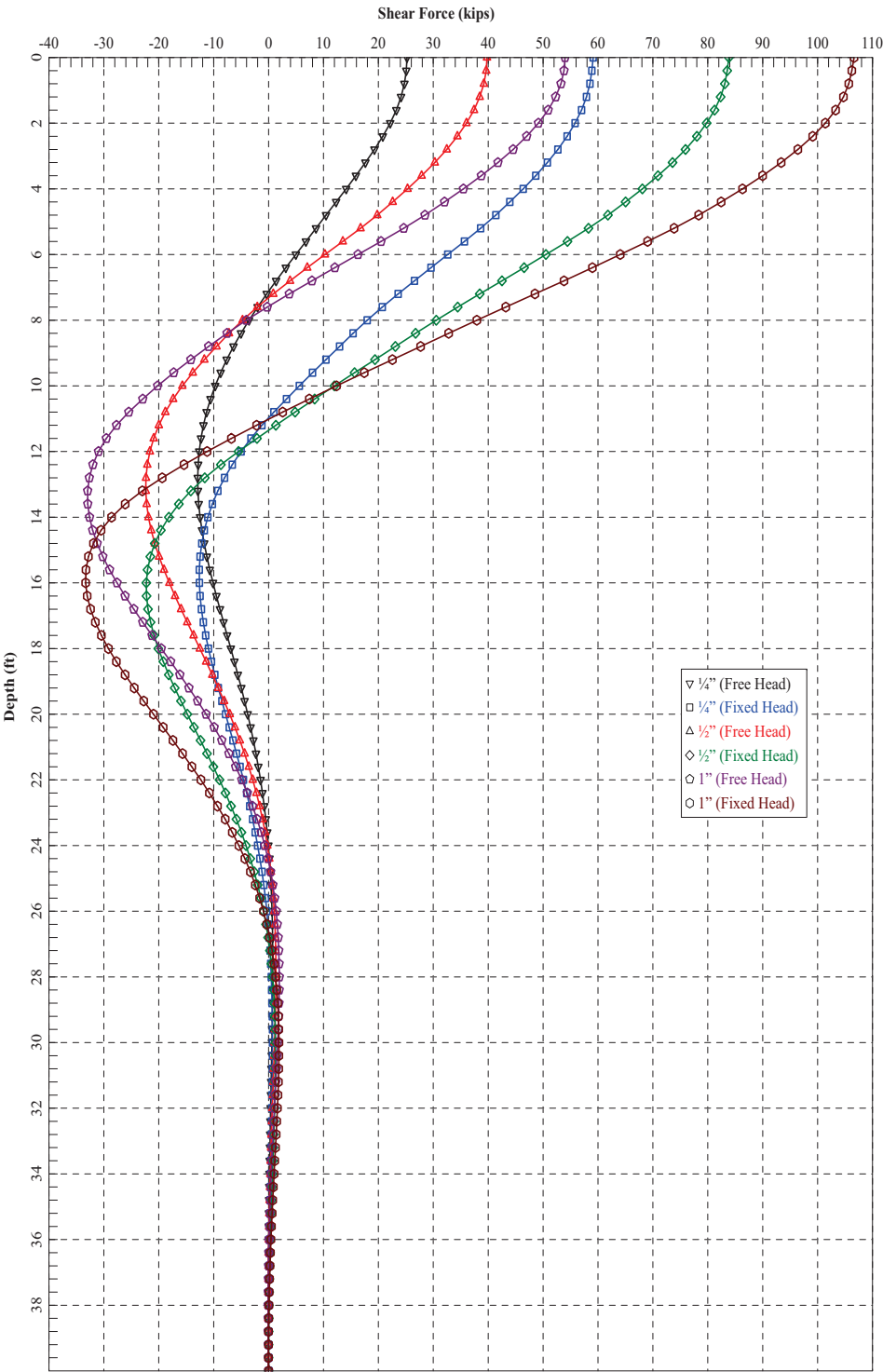
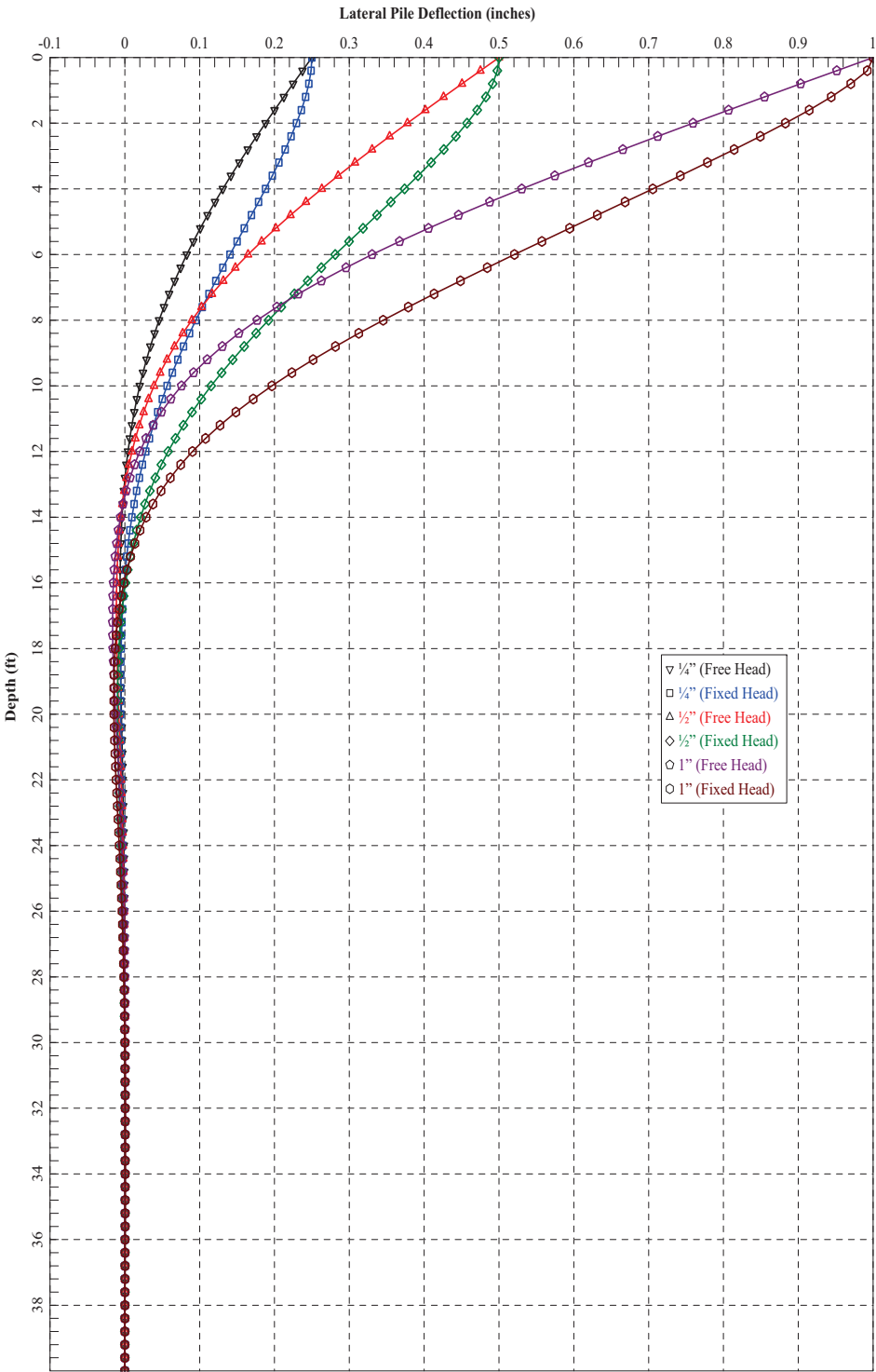
- 1) The approximate lateral response of a single **24-inch diameter**, 40-foot long pile is shown in the deflection, shear and moment diagrams provided above.
- 2) The analyses assume at least 10-foot embedment into dense Old Alluvium, with 4,000 psi concrete strength and (6) No. 10 transverse bars (Grade 60).



|                                                                                                                                  |                            |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| GROUP DELTA CONSULTANTS, INC.<br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 | PROJECT NUMBER<br>SD809    |
|                                                                                                                                  | DOCUMENT NUMBER<br>24-0011 |
|                                                                                                                                  | FIGURE NUMBER<br>8A        |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                      |                            |

|                                                |
|------------------------------------------------|
| LATERAL PILE CAPACITY<br>(GARAGE SITE - NORTH) |
|------------------------------------------------|





**NOTES:**

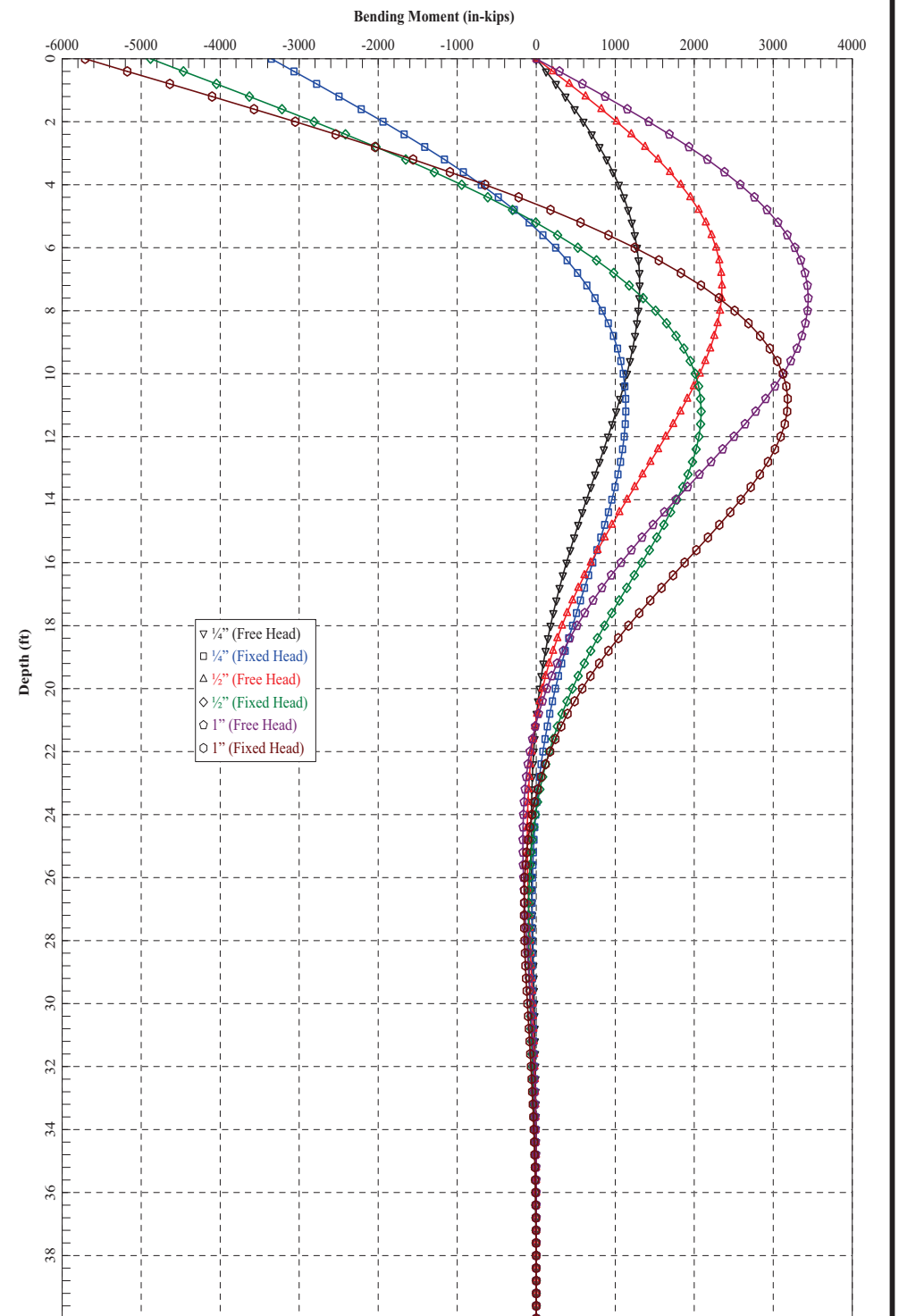
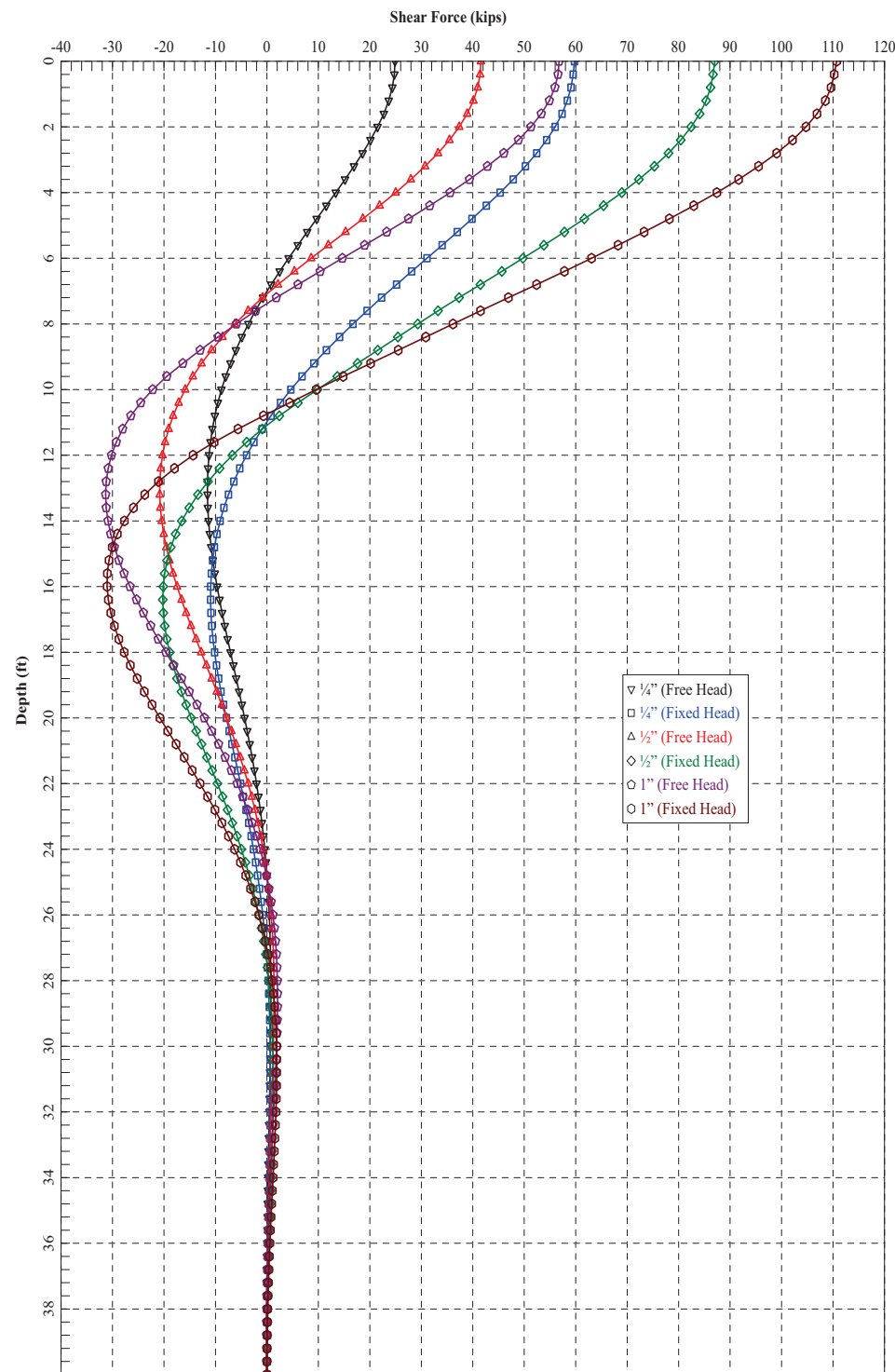
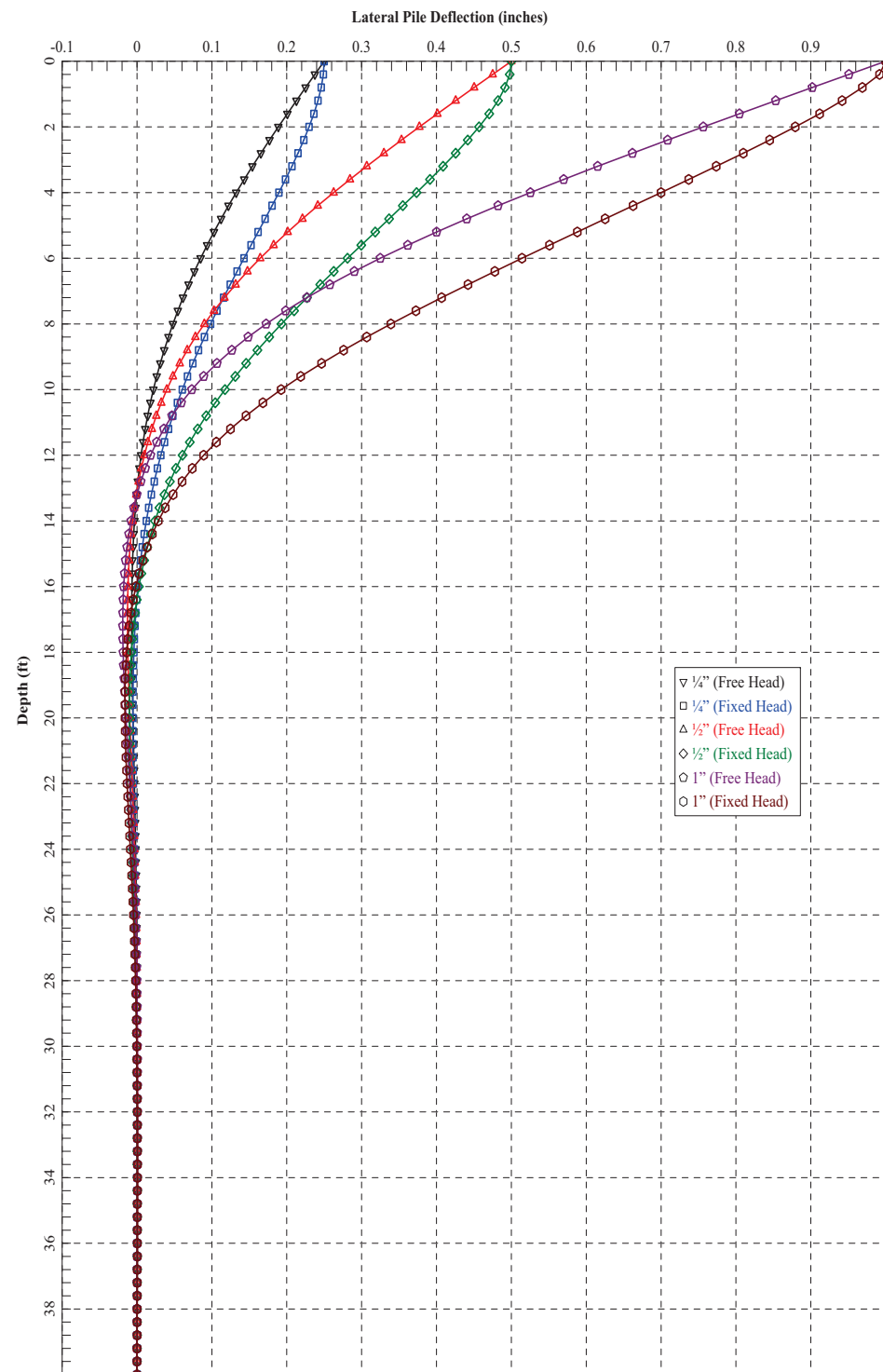
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HCA Design and Construction

PROJECT NUMBER  
**SD809**  
DOCUMENT NUMBER  
**24-0011**  
FIGURE NUMBER  
**8B**

**LATERAL PILE CAPACITY  
(GARAGE SITE - SOUTH)**



**NOTES:**

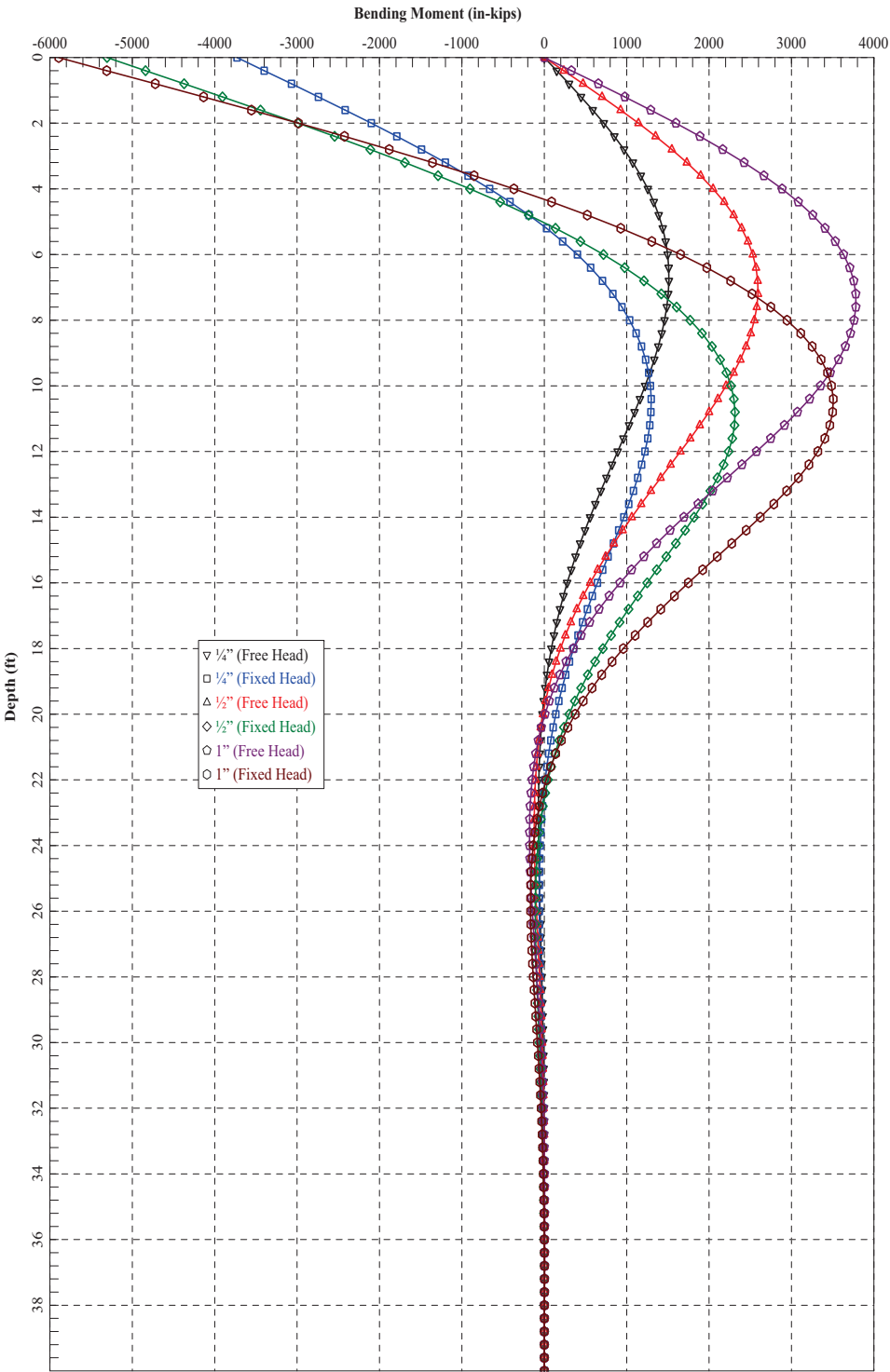
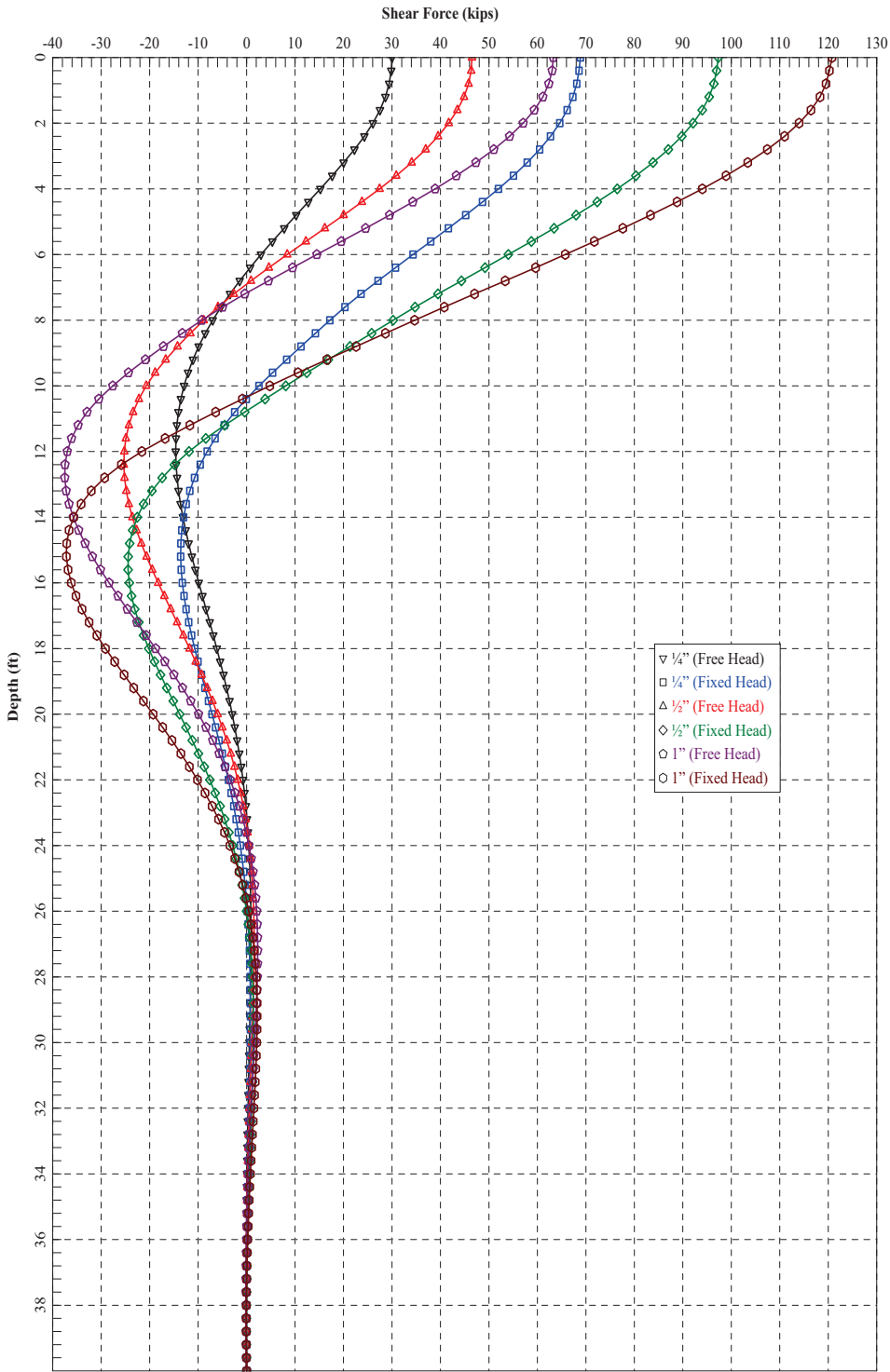
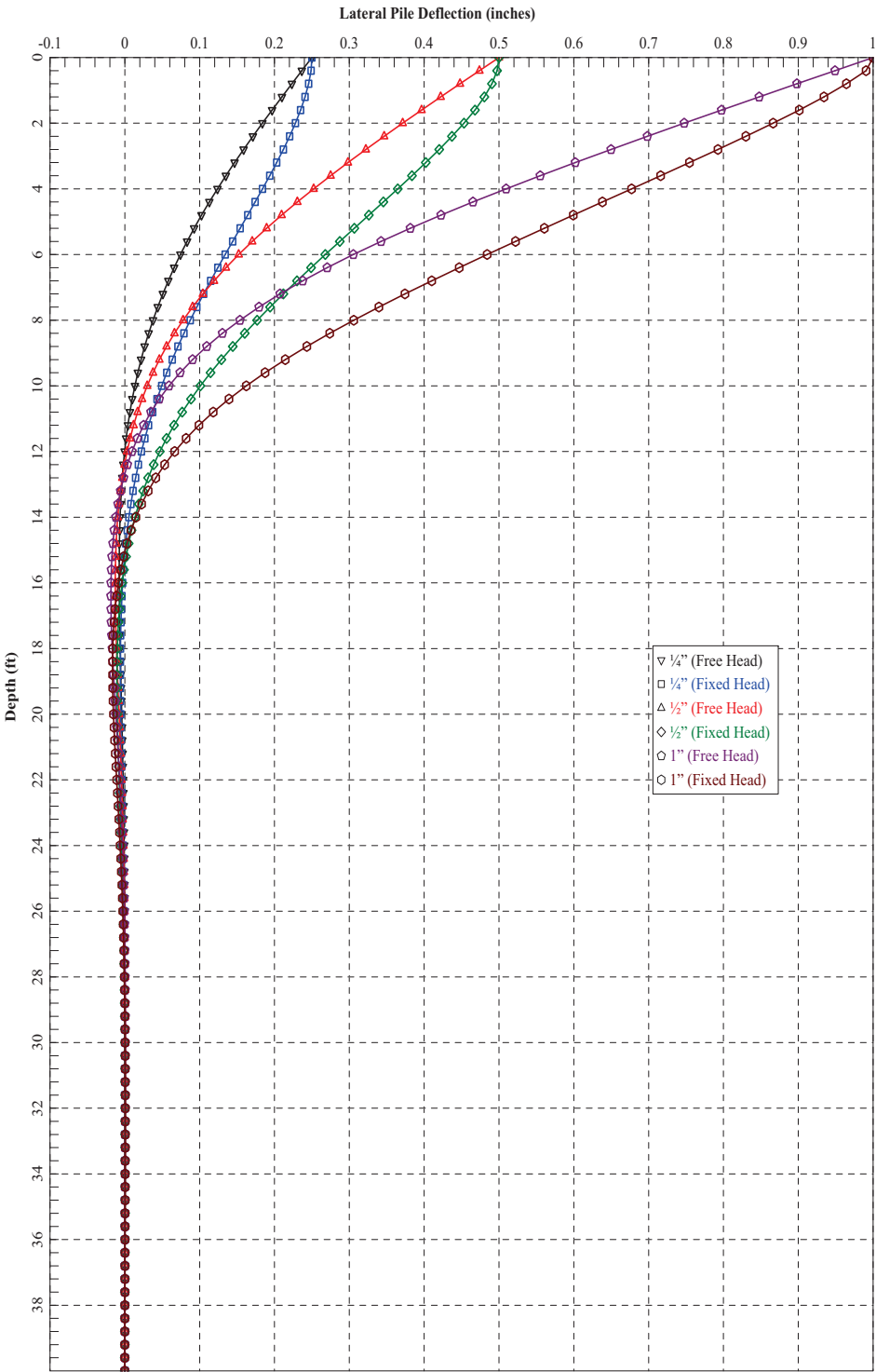
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|                                                                                                                                  |                            |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|
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|                                                                                                                                  | DOCUMENT NUMBER<br>24-0011 |
|                                                                                                                                  | FIGURE NUMBER<br>8C        |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                      |                            |

LATERAL PILE CAPACITY  
(TOWER SITE - WEST)





**NOTES:**

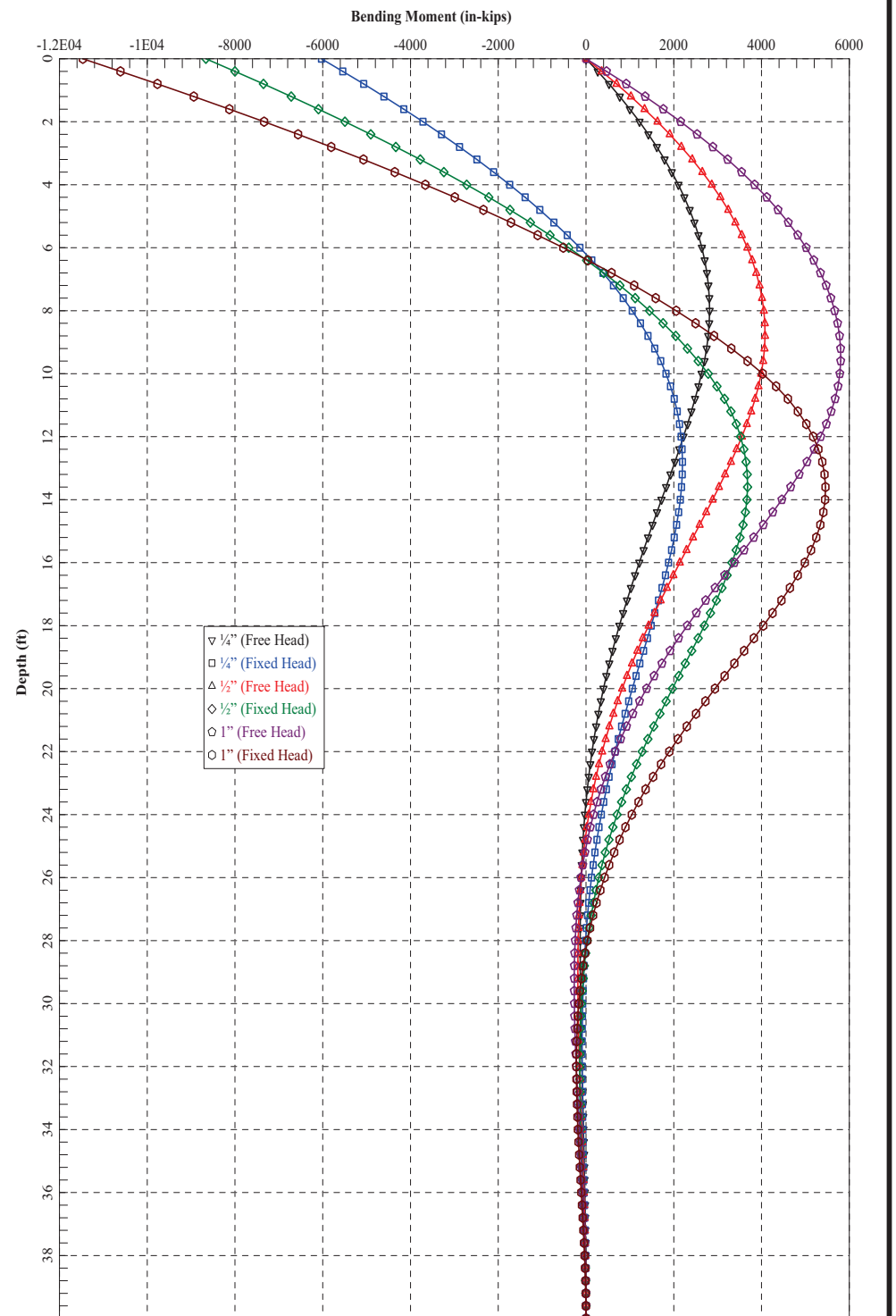
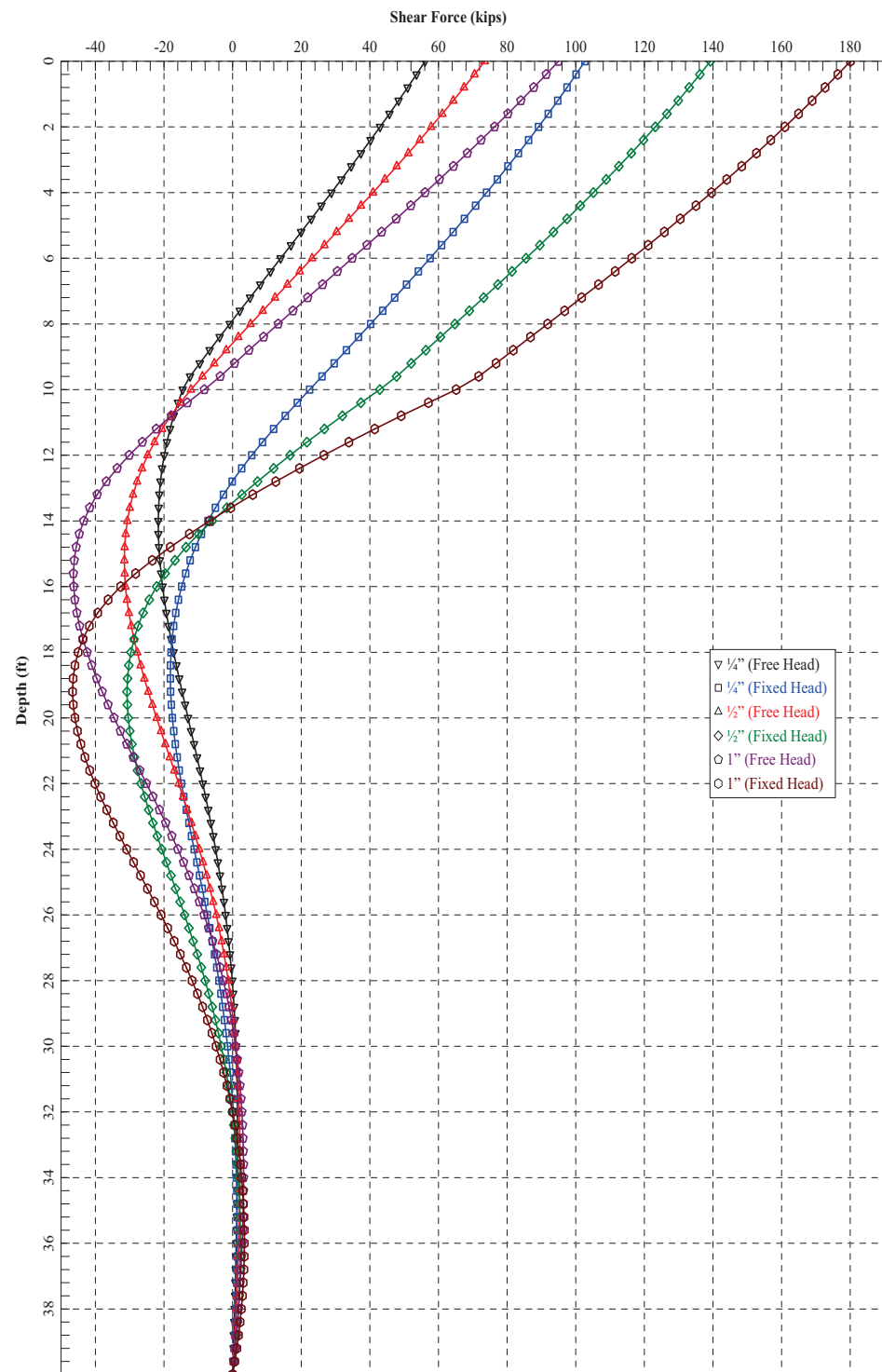
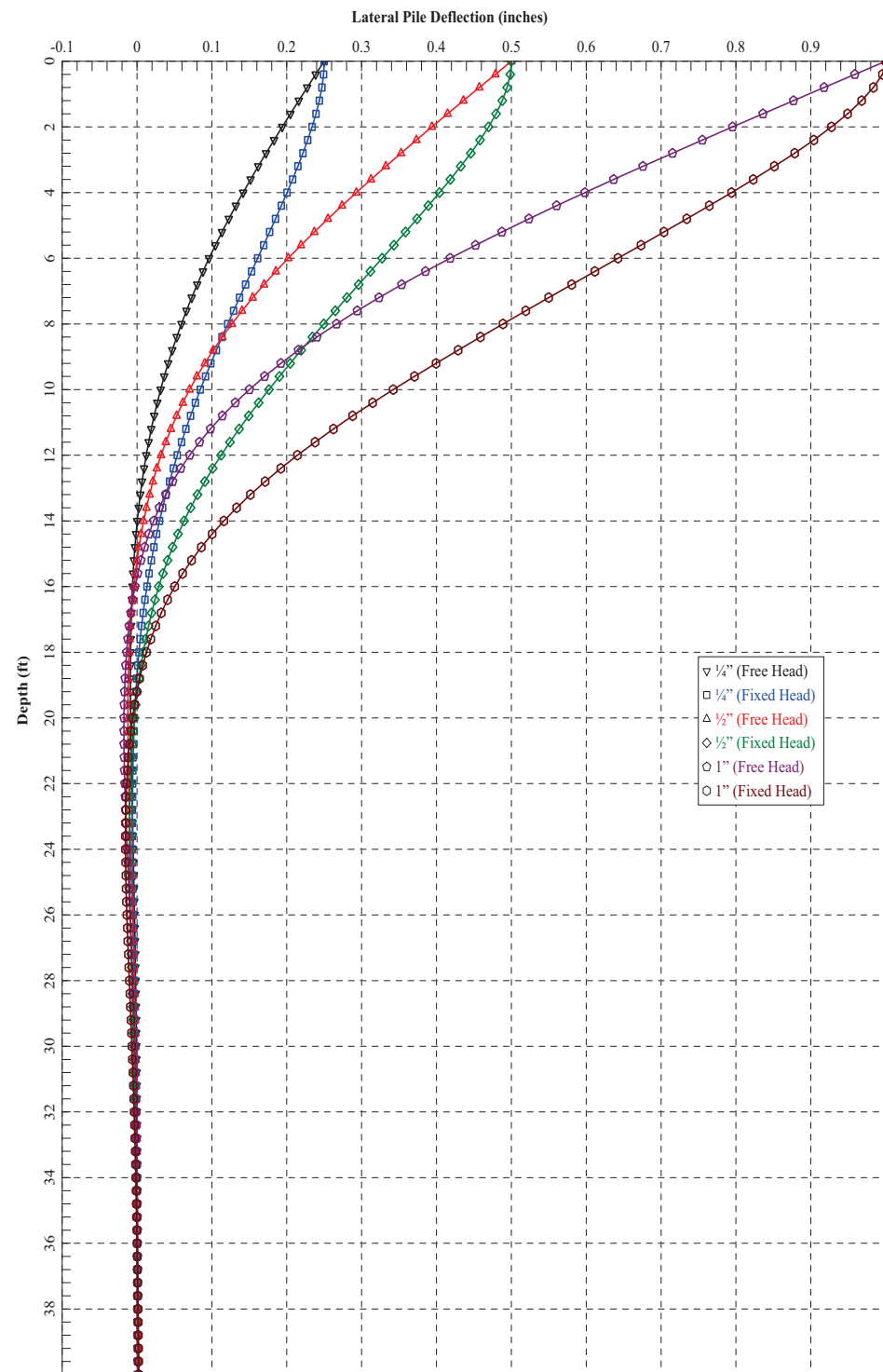
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**SD809**  
DOCUMENT NUMBER  
**24-0011**  
FIGURE NUMBER  
**8D**

**LATERAL PILE CAPACITY  
(TOWER SITE - EAST)**



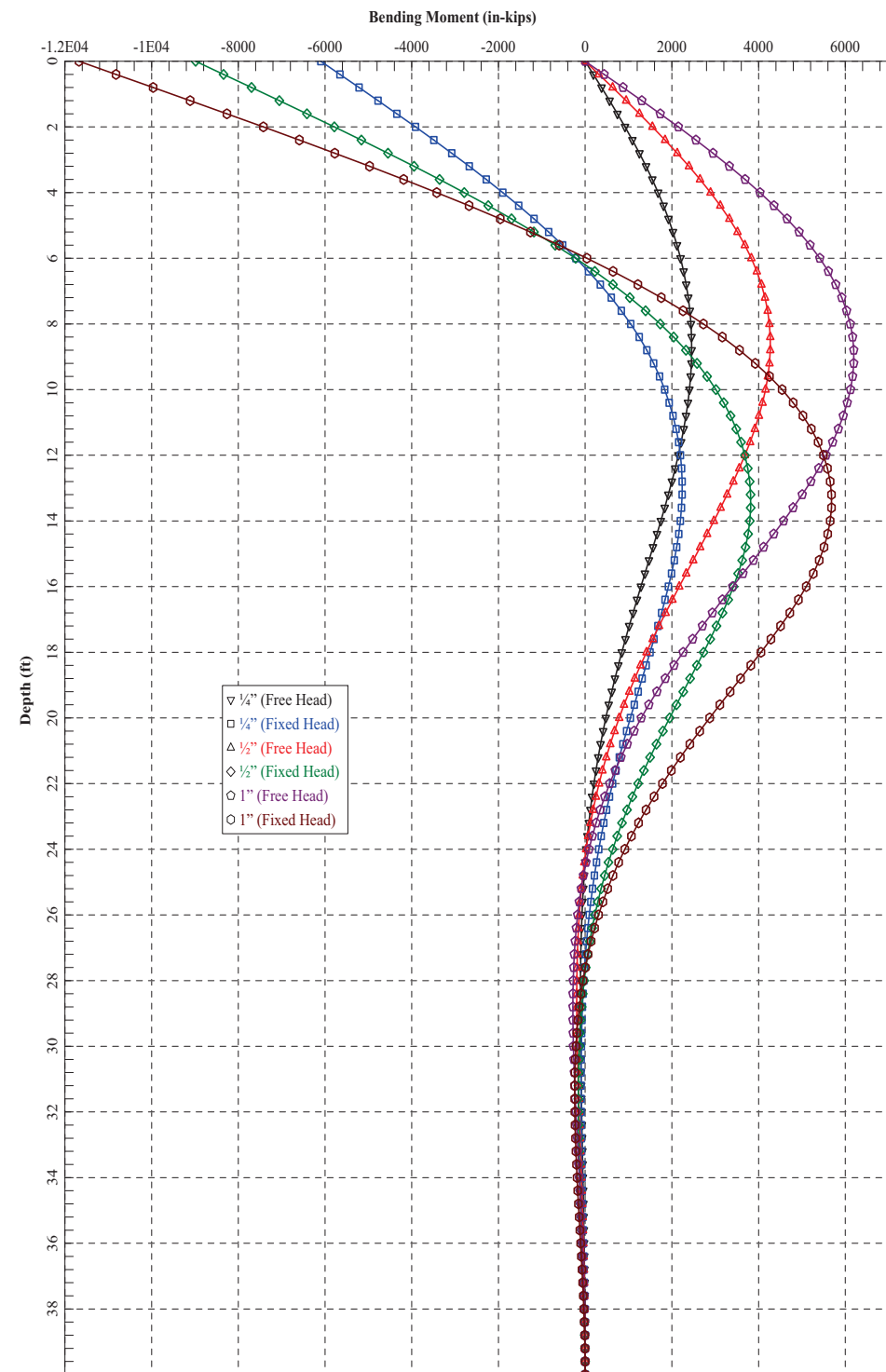
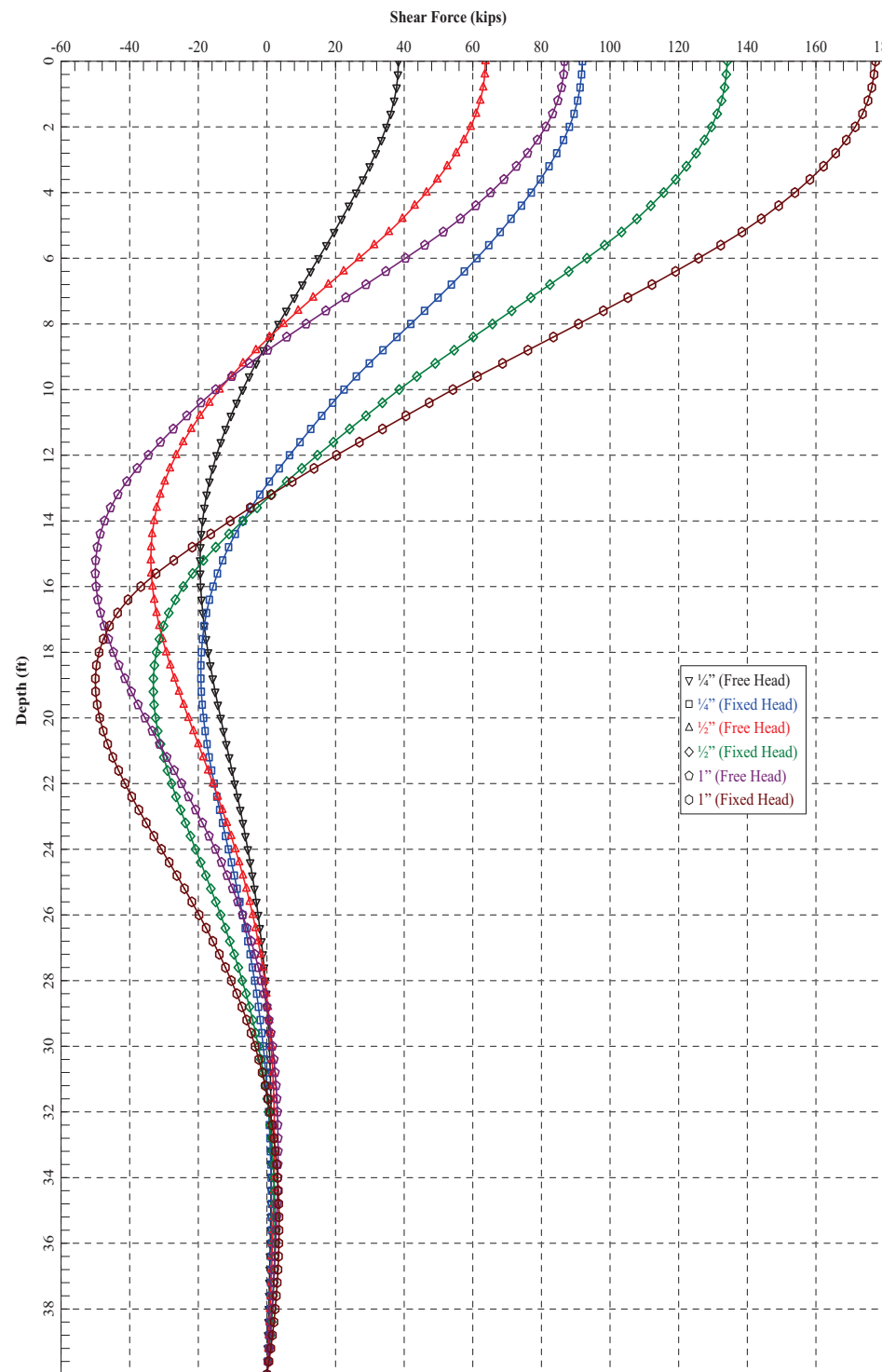
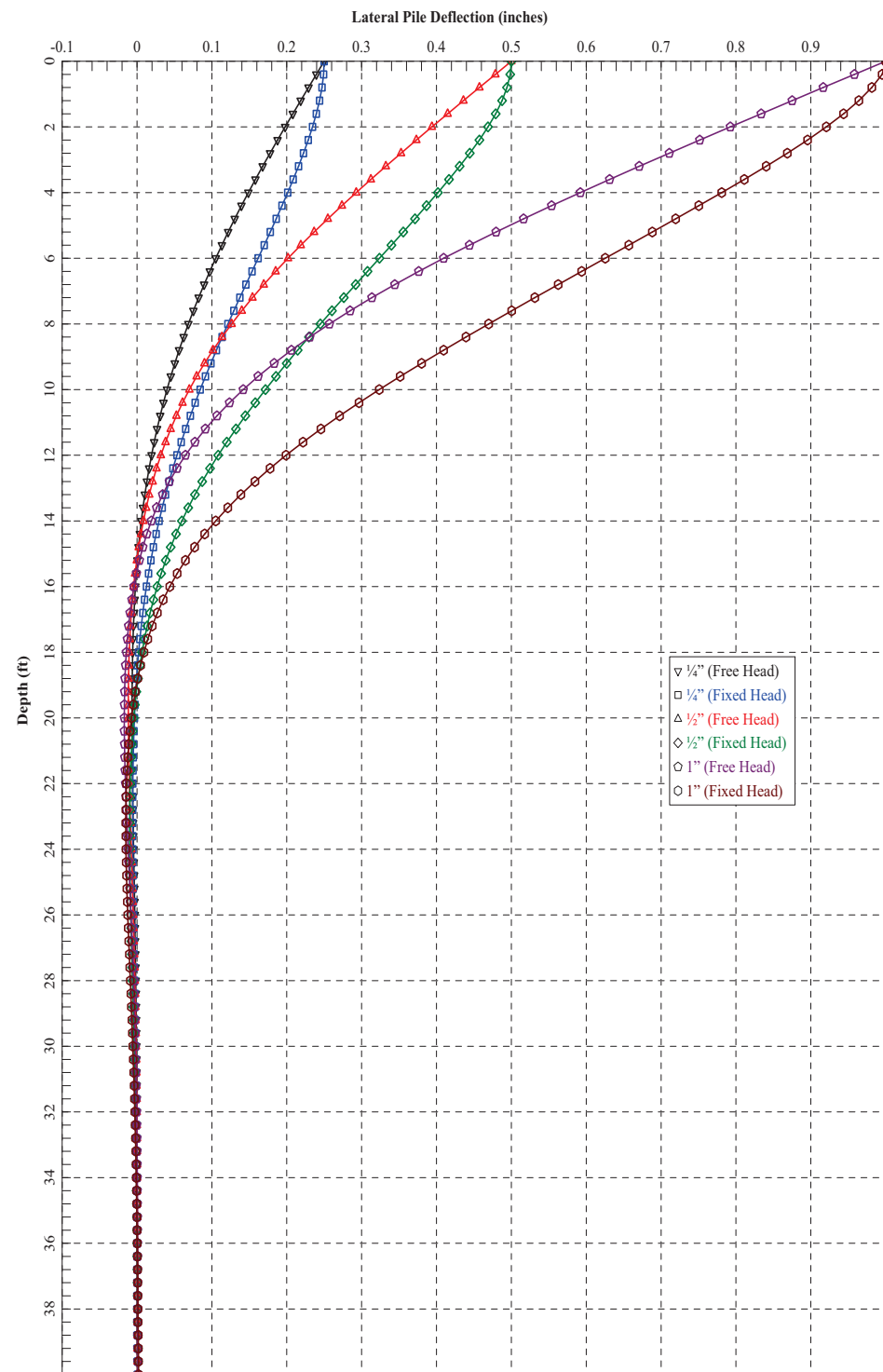
**NOTES:**

- 1) The approximate lateral response of a single **30-inch diameter**, 40-foot long pile is shown in the deflection, shear and moment diagrams provided above.
- 2) The analyses assume at least 10-foot embedment into dense Old Alluvium, with 4,000 psi concrete strength and (6) No. 14 transverse bars (Grade 60).



|                                                                                                                                  |                            |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|
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|                                                                                                                                  | DOCUMENT NUMBER<br>24-0011 |
|                                                                                                                                  | FIGURE NUMBER<br>8E        |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                      |                            |
| LATERAL PILE CAPACITY<br>(GARAGE SITE - NORTH)                                                                                   |                            |





**NOTES:**

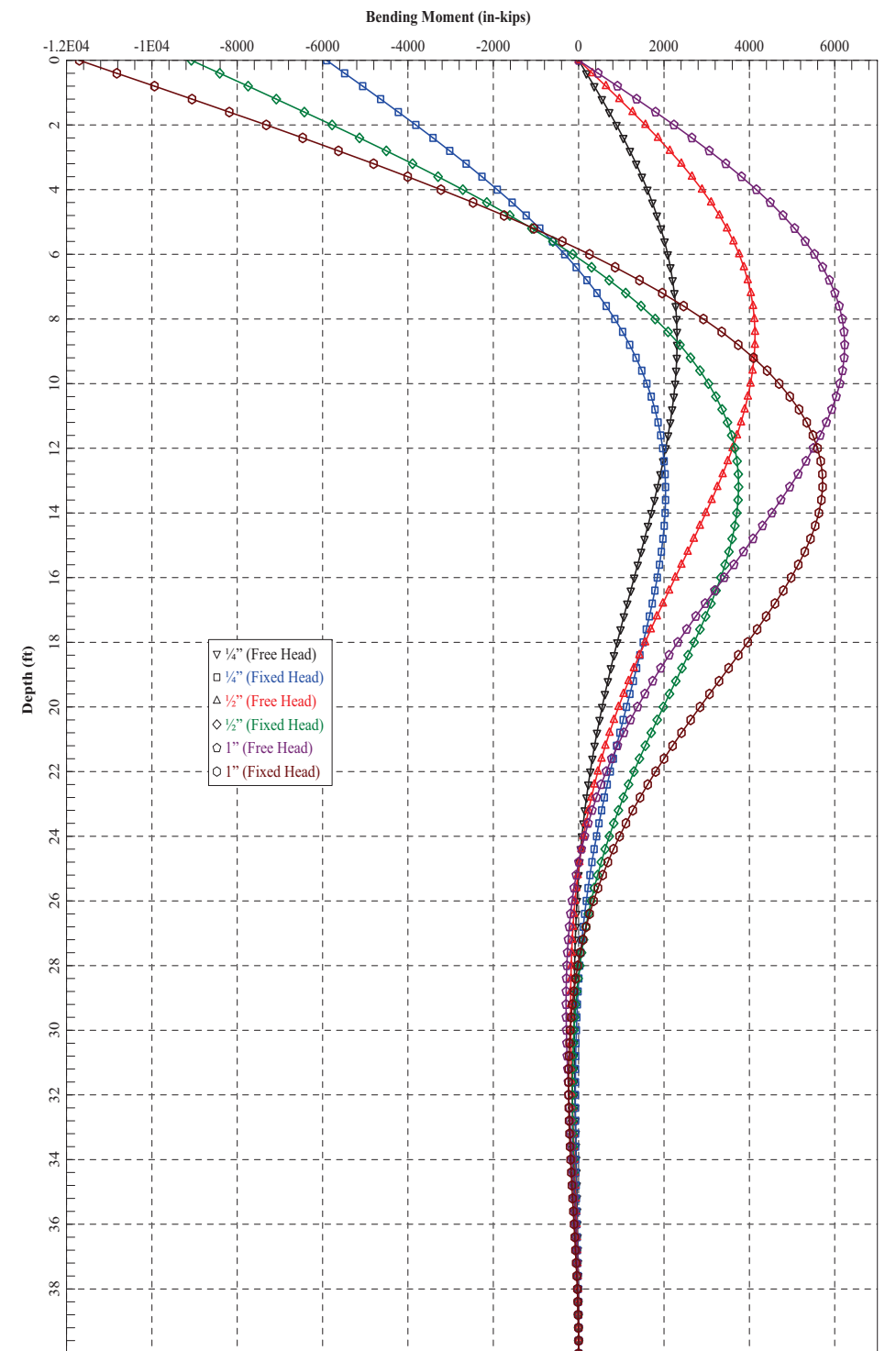
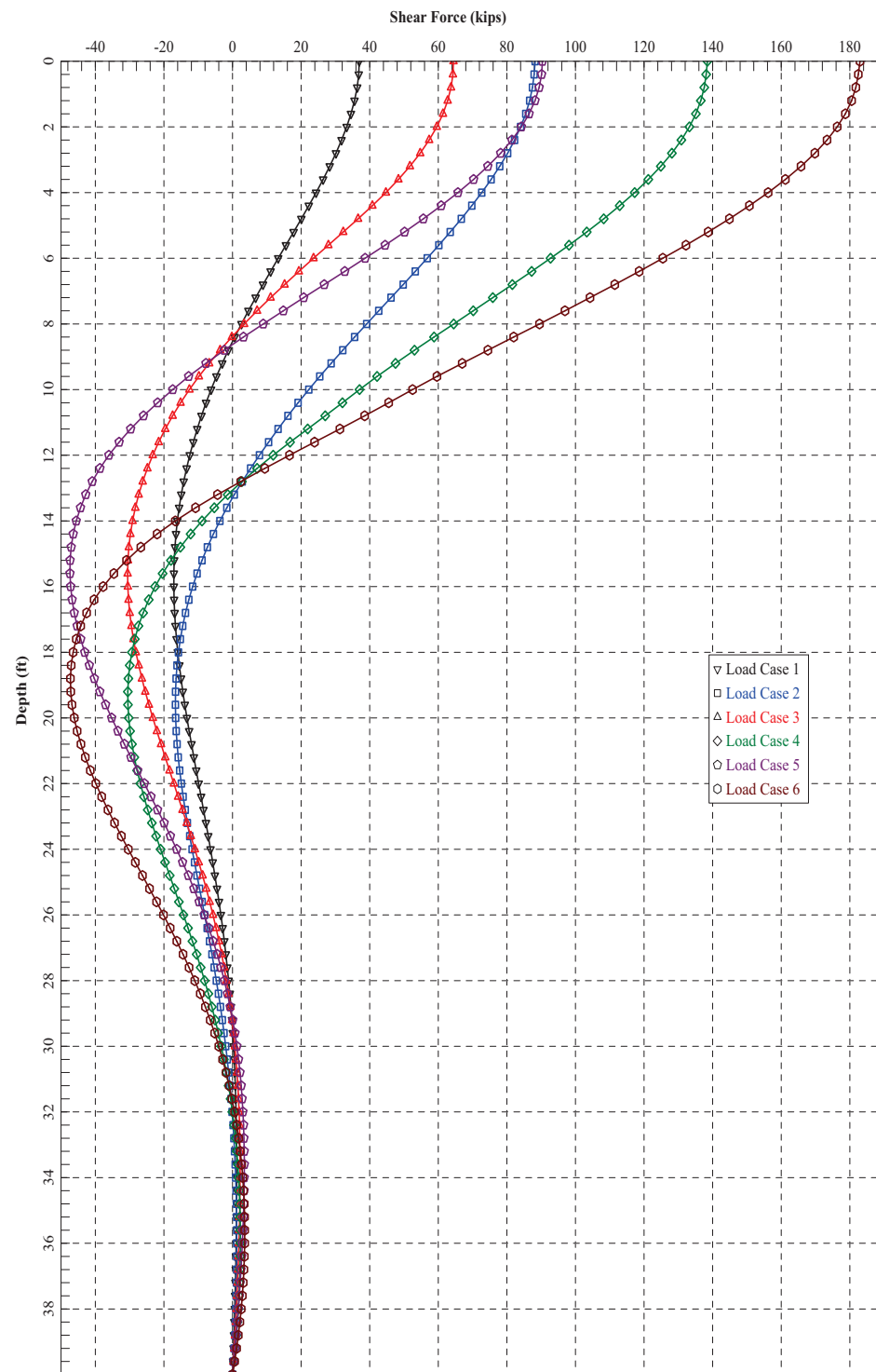
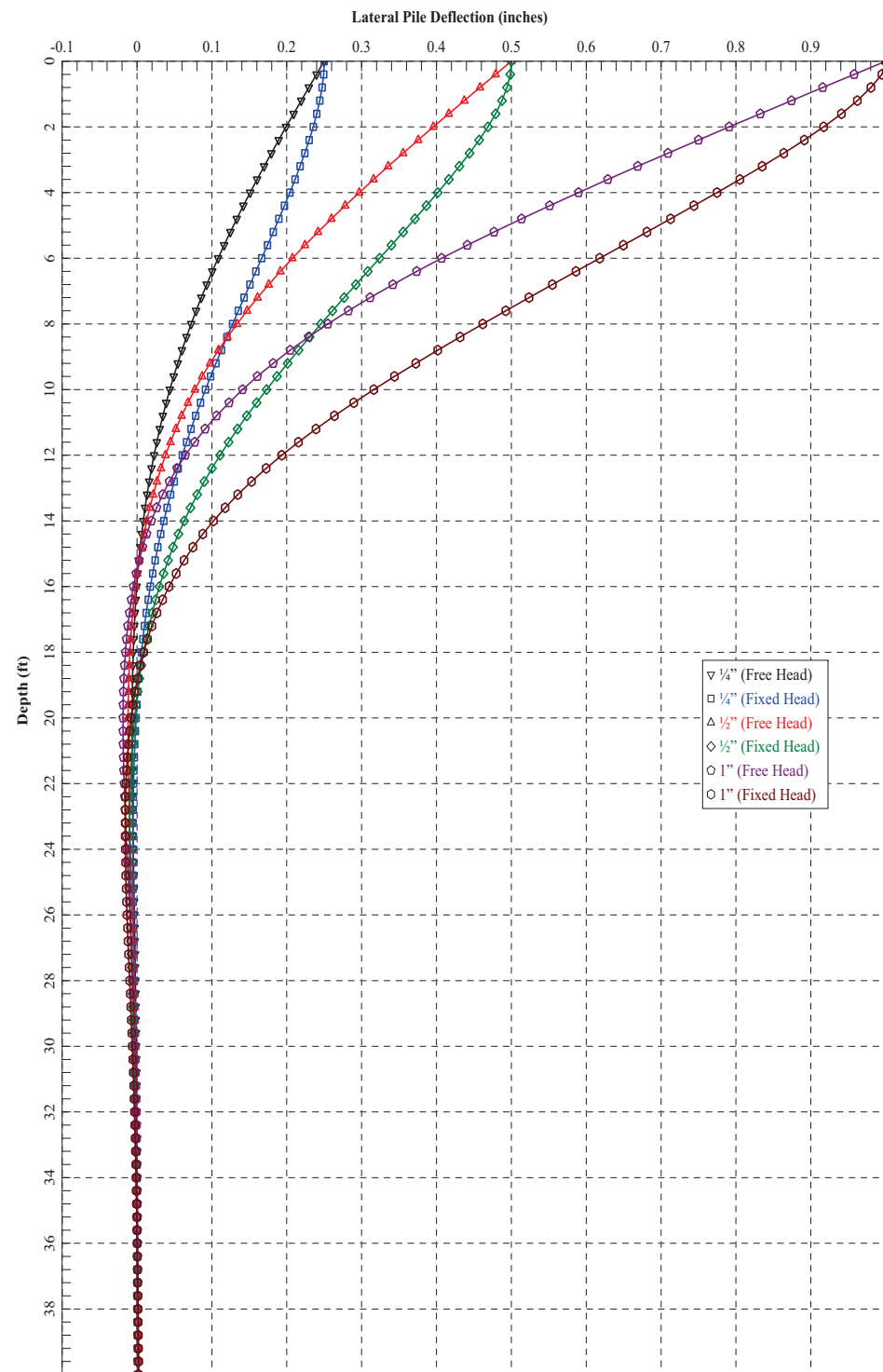
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DOCUMENT NUMBER  
**24-0011**  
FIGURE NUMBER  
**8F**

**LATERAL PILE CAPACITY  
(GARAGE SITE - SOUTH)**



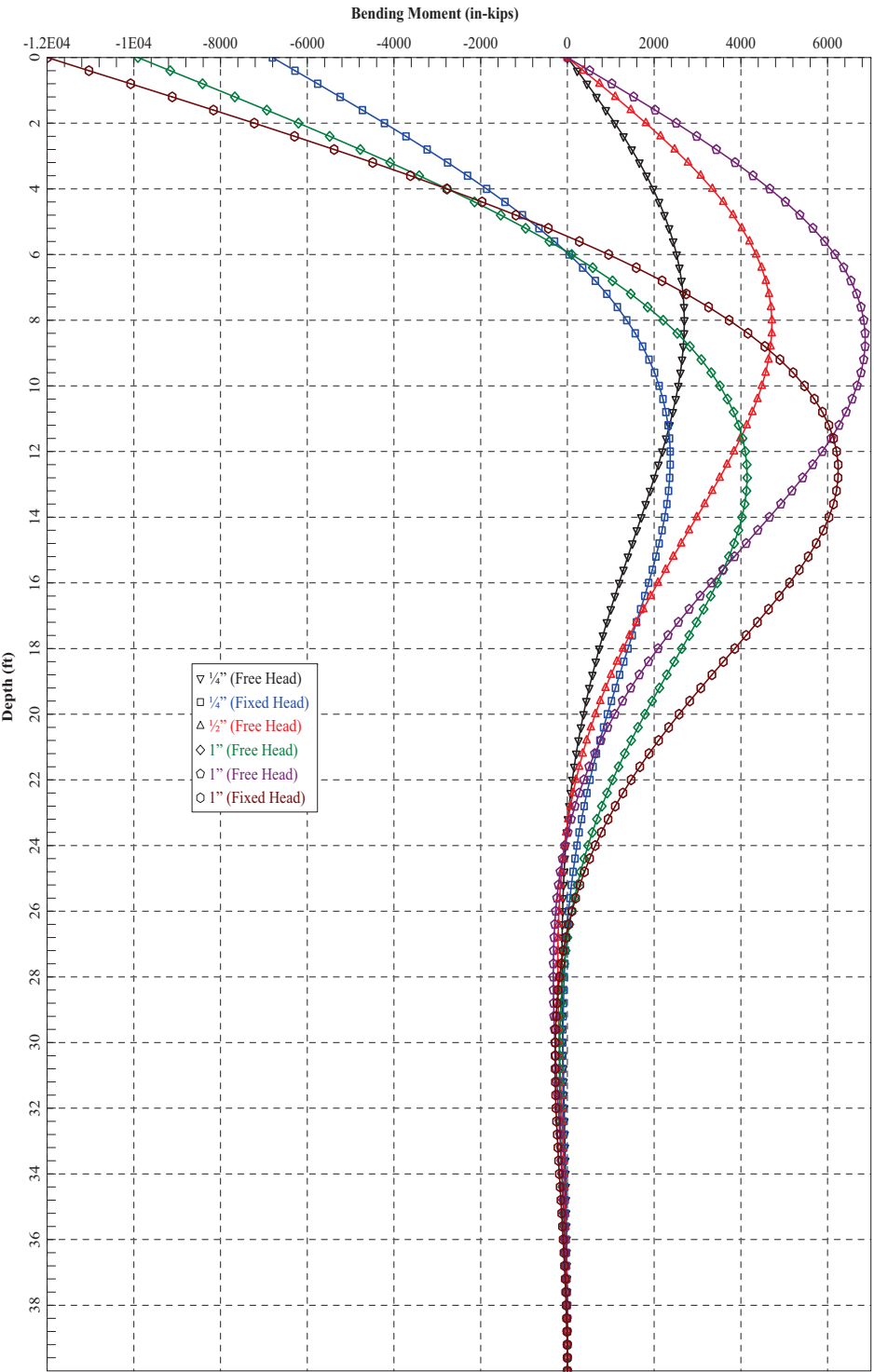
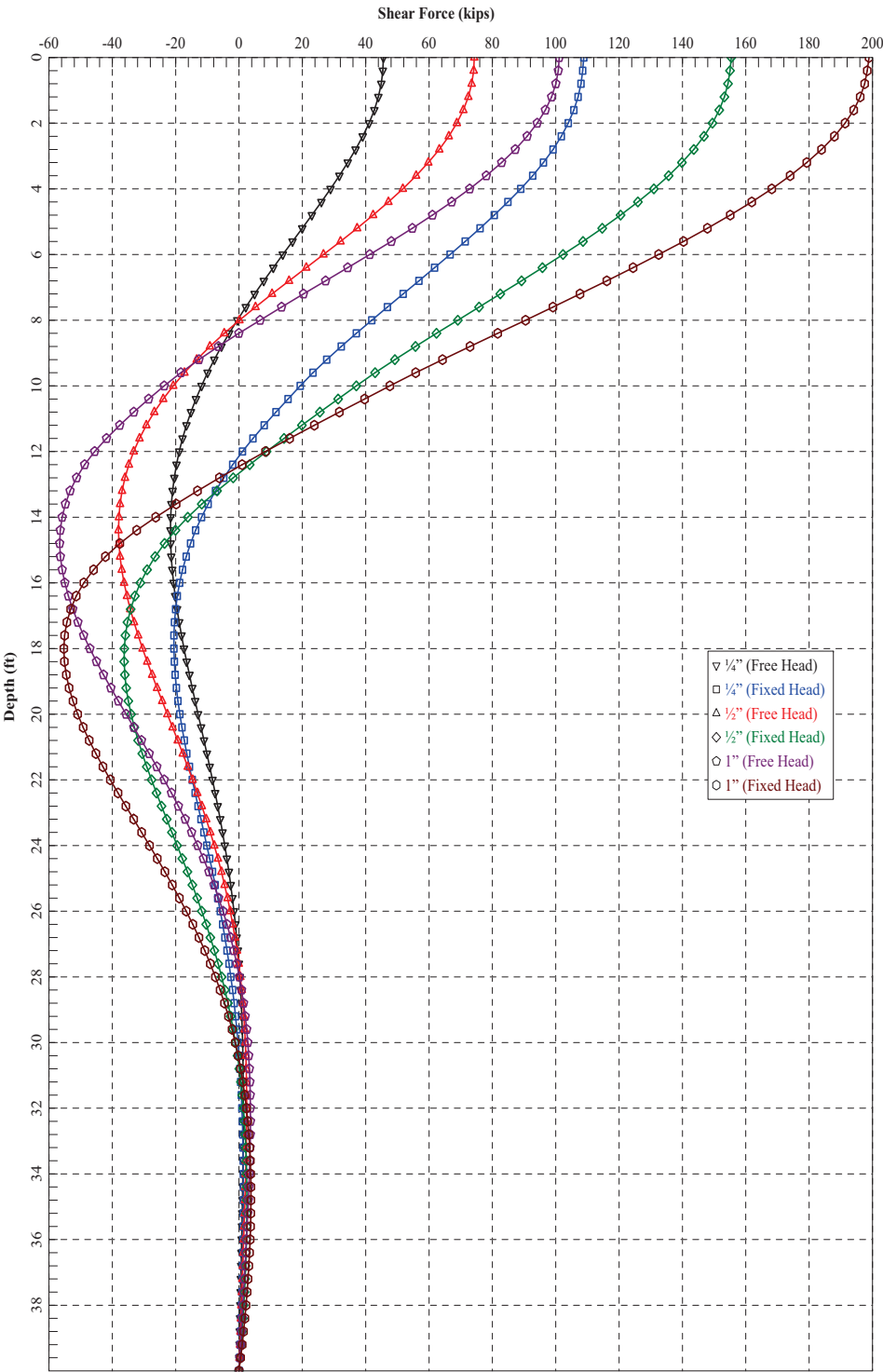
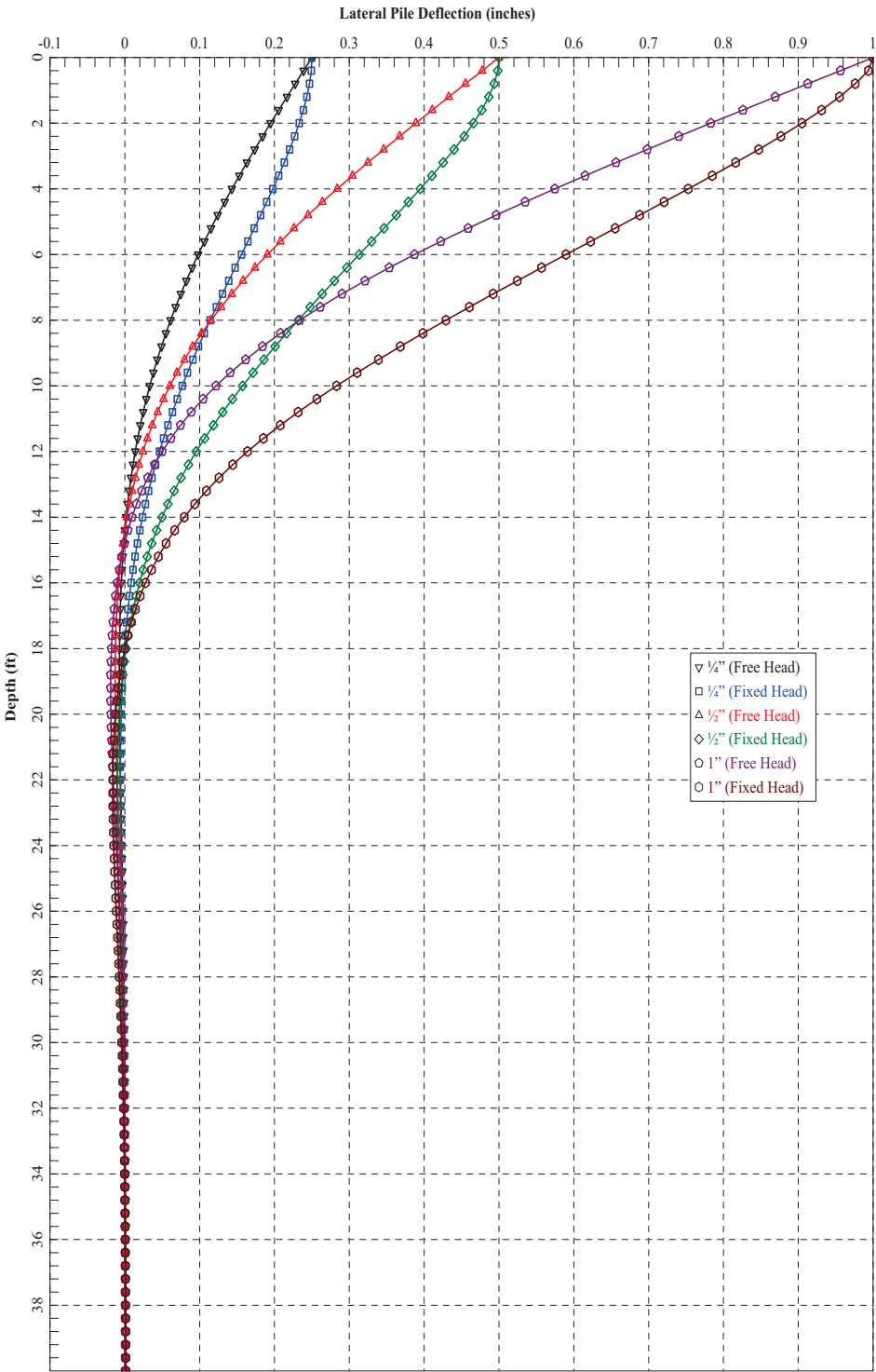
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|                                                                                                                                  |  |                            |
|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| GROUP DELTA CONSULTANTS, INC.<br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 |  | PROJECT NUMBER<br>SD809    |
| PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                      |  | DOCUMENT NUMBER<br>24-0011 |
|                                                                                                                                  |  | FIGURE NUMBER<br>8G        |
| LATERAL PILE CAPACITY<br>(TOWER SITE - WEST)                                                                                     |  |                            |





**NOTES:**

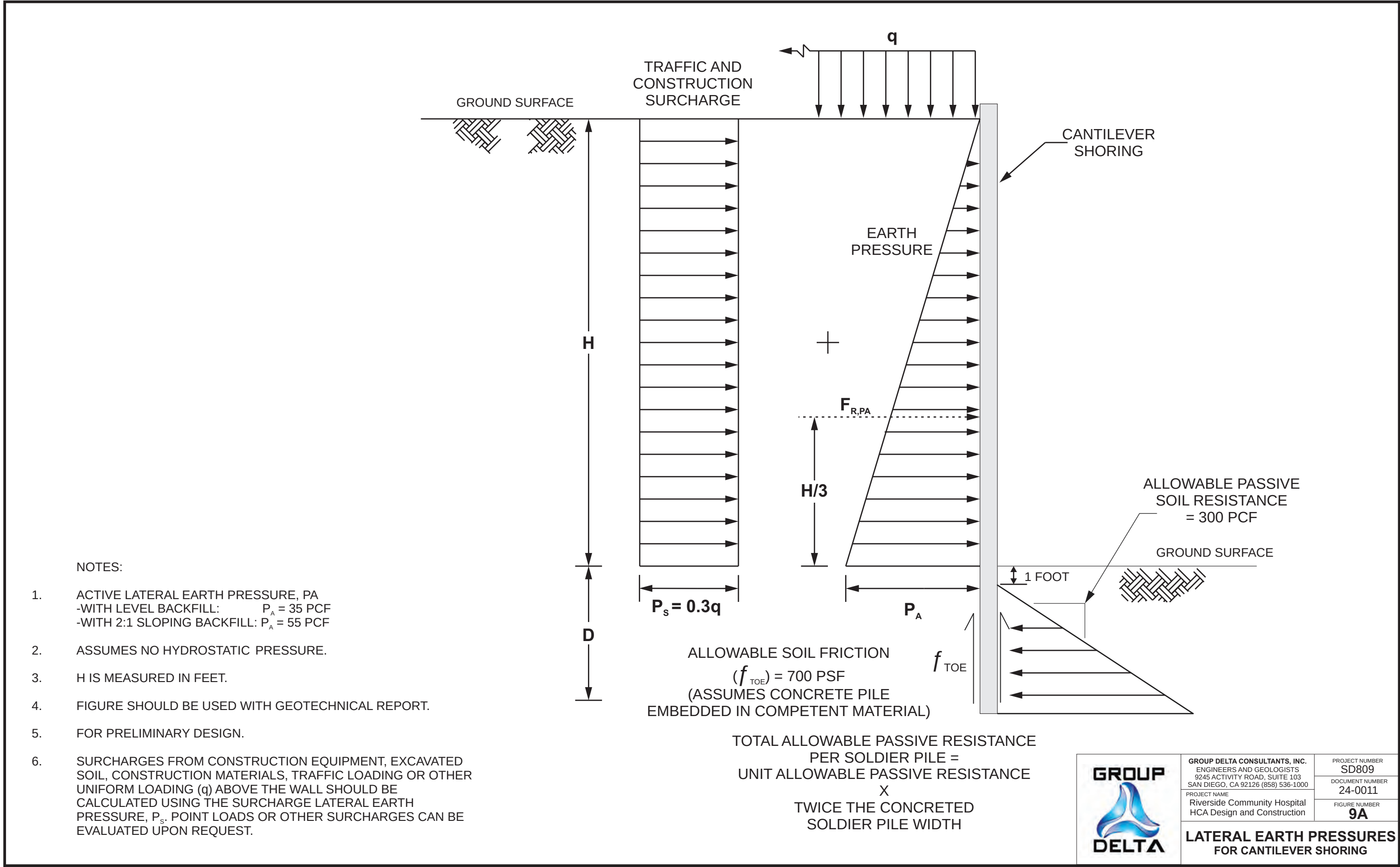
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DOCUMENT NUMBER  
**24-0011**  
FIGURE NUMBER  
**8H**

**LATERAL PILE CAPACITY  
(TOWER SITE - EAST)**



NOTES:

- 1. ACTIVE LATERAL EARTH PRESSURE,  $P_A$   
-WITH LEVEL BACKFILL:  $P_A = 35 \text{ PCF}$   
-WITH 2:1 SLOPING BACKFILL:  $P_A = 55 \text{ PCF}$
- 2. ASSUMES NO HYDROSTATIC PRESSURE.
- 3.  $H$  IS MEASURED IN FEET.
- 4. FIGURE SHOULD BE USED WITH GEOTECHNICAL REPORT.
- 5. FOR PRELIMINARY DESIGN.
- 6. SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, CONSTRUCTION MATERIALS, TRAFFIC LOADING OR OTHER UNIFORM LOADING ( $q$ ) ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE,  $P_s$ . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.



**GROUP DELTA CONSULTANTS, INC.**  
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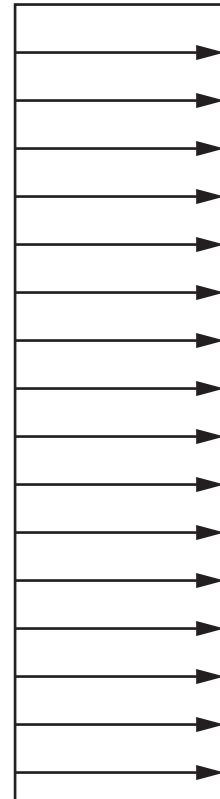
PROJECT NAME  
Riverside Community Hospital  
HCA Design and Construction

|                                   |
|-----------------------------------|
| PROJECT NUMBER<br><b>SD809</b>    |
| DOCUMENT NUMBER<br><b>24-0011</b> |
| FIGURE NUMBER<br><b>9A</b>        |

**LATERAL EARTH PRESSURES  
FOR CANTILEVER SHORING**

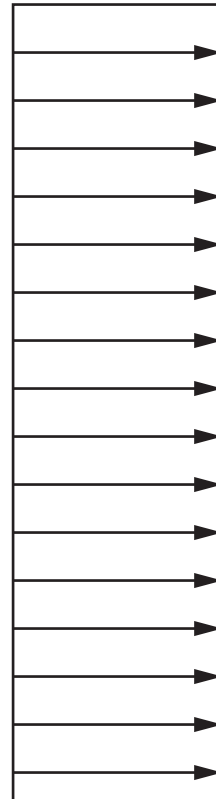


TRAFFIC AND  
CONSTRUCTION  
SURCHARGE



$$P_s = 0.3q$$

EARTH  
PRESSURE



$$P_A$$

NOTES:

1. ACTIVE LATERAL EARTH PRESSURE,  $P_A$   
-WITH LEVEL BACKFILL:  $P_A = 21H$   
-WITH 2:1 SLOPING BACKFILL:  $P_A = 35H$
2. ASSUMES NO HYDROSTATIC PRESSURE.
3. VALUES ASSUME SHORED MATERIAL IS GRANULAR ON-SITE SOIL AS DESCRIBED IN THE REPORT OF GEOTECHNICAL INVESTIGATION.
4.  $H$  IS MEASURED IN FEET.
5. FIGURE SHOULD BE USED WITH GEOTECHNICAL REPORT.
6. FOR PRELIMINARY DESIGN.
7. SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, CONSTRUCTION MATERIALS, TRAFFIC LOADING OR OTHER UNIFORM LOADING ( $q$ ) ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE,  $P_s$ . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.

6 INCH  
MINIMUM DIAMETER

GROUND SURFACE

ASSUMED  
SLIP PLANE

SOLDIER  
PILE

15° MINIMUM

MINIMUM UNBONDED  
LENGTH: 15 FEET

AFTER TESTING  
FILL THIS PORTION  
WITH GROUT

$H$

TIEBACK  
ANCHORS

ANCHORS ASSUMED  
EFFECTIVE BEHIND  
THE SLIP PLANE ONLY

ULTIMATE ANCHOR RESISTANCE  
(PRESSURE GROUTED)  
= 10 TO 15 PSI

~28°

5 FEET

$f_{TOE}$

1 FOOT

ALLOWABLE PASSIVE  
SOIL RESISTANCE  
= 300 PCF

GROUND SURFACE

ALLOWABLE SOIL FRICTION ( $f_{TOE}$ ) = 700 PSF  
(ASSUMES CONCRETE FOOTING EMBEDDED  
IN COMPETENT MATERIAL)

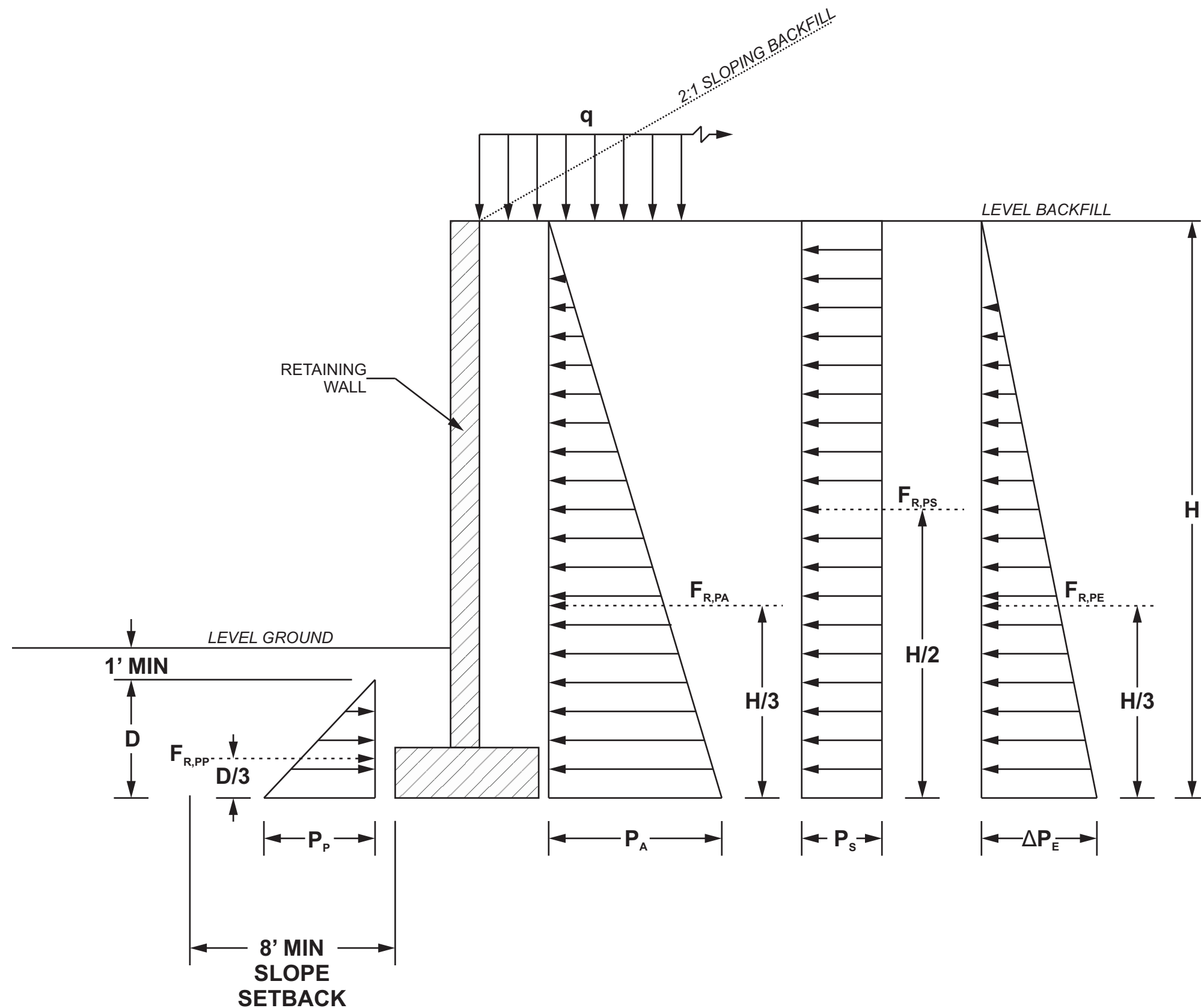
TOTAL ALLOWABLE PASSIVE RESISTANCE  
PER SOLDIER PILE =  
UNIT ALLOWABLE PASSIVE RESISTANCE  
X  
TWICE THE CONCRETED  
SOLDIER PILE WIDTH



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ENGINEERS AND GEOLOGISTS  
9245 ACTIVITY ROAD, SUITE 103  
SAN DIEGO, CA 92126 (858) 536-1000  
PROJECT NAME  
Riverside Community Hospital  
HCA Design and Construction

PROJECT NUMBER  
SD809  
DOCUMENT NUMBER  
24-0011  
FIGURE NUMBER  
9B

LATERAL EARTH PRESSURES  
FOR BRACED OR ANCHORED SHORING



#### NOTES:

- PASSIVE PRESSURES MAY BE INCREASED BY  $\frac{1}{3}$  DURING SEISMIC LOADING. THE UPPER 12 INCHES OF MATERIAL NOT PROTECTED BY CONCRETE SLABS OR PAVEMENTS SHOULD NOT BE INCLUDED IN THE ESTIMATION OF PASSIVE RESISTANCE.
- ASSUMES NO HYDROSTATIC PRESSURE. A WALL BACK DRAIN SHOULD BE INSTALLED AS RECOMMENDED IN THE *WALL DRAINAGE DETAIL* FIGURE.
- SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, TRAFFIC LOADING OR OTHER UNIFORM LOADING ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE,  $P_s$ . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.
- SEISMIC INCREMENT LATERAL EARTH PRESSURE ( $\Delta P_E$ ) IS BASED ON A DESIGN-LEVEL PEAK GROUND ACCELERATION OF 0.41g. SEISMIC INCREMENT SHOULD BE APPLIED TO WALLS SIX FEET OR GREATER IN HEIGHT.
- 'H' AND 'D' ARE MEASURED IN FEET.
- PRESSURES ASSUME GRANULAR AND NON-EXPANSIVE SOIL MATERIALS COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

#### LATERAL EARTH PRESSURES

| LATERAL EARTH PRESSURE TYPE       | EQUIVALENT FLUID PRESSURE (PCF) |                      |
|-----------------------------------|---------------------------------|----------------------|
| ACTIVE, $P_A$                     | LEVEL BACKFILL                  | 2:1 SLOPING BACKFILL |
| COMPACTED FILL                    | 35                              | 55                   |
| SEISMIC INCREMENT, $\Delta P_E^*$ | 23                              |                      |
| PASSIVE, $P_P^{**}$               | 300                             |                      |
| SURCHARGE, $P_s$                  | 0.3q                            |                      |

\*SEISMIC PRESSURE,  $P_{AE} = P_A + \Delta P_E$

\*\*PASSIVE RESISTANCE VERSUS DISPLACEMENT CURVES CAN BE PROVIDED UPON REQUEST.



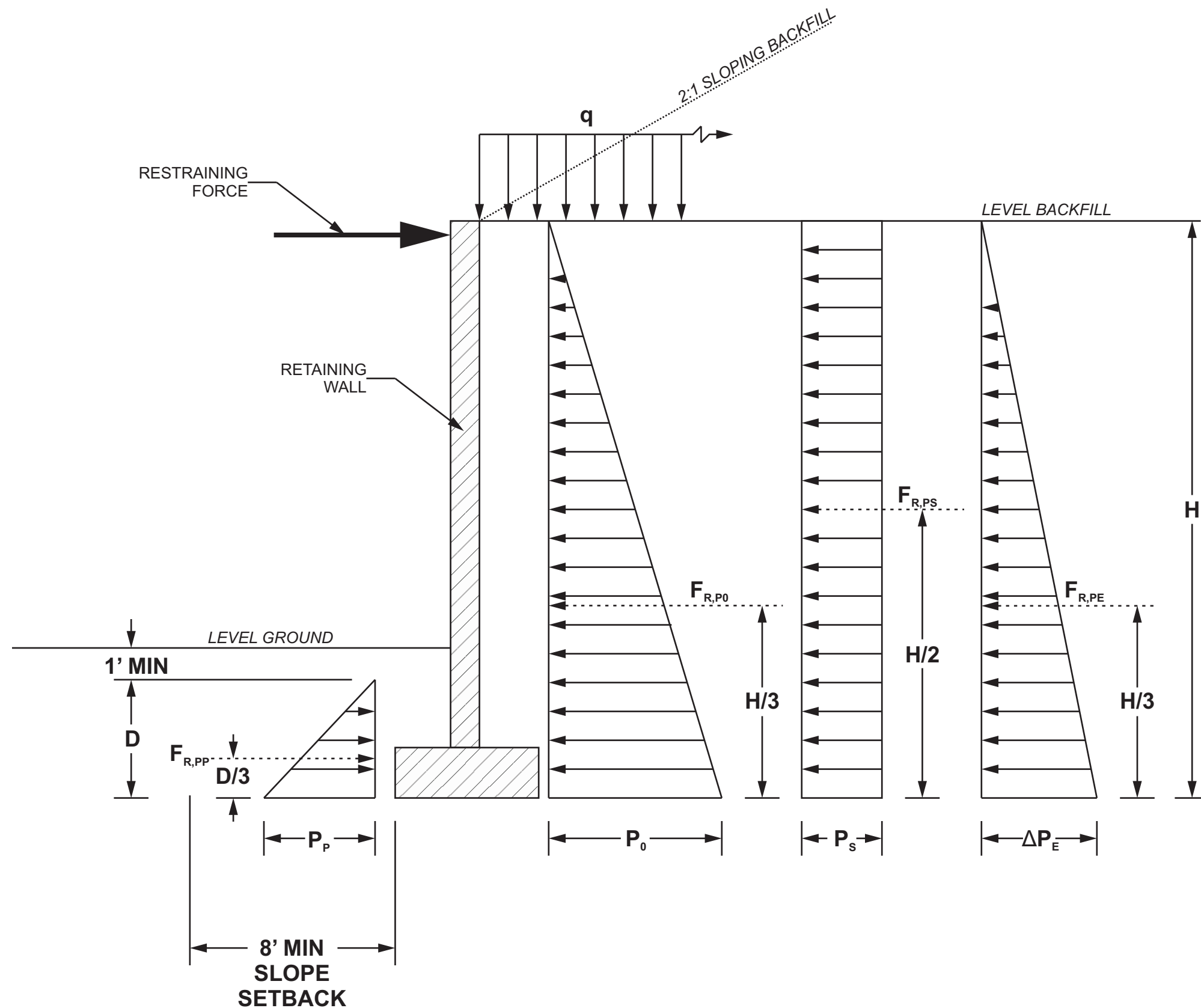
GROUP DELTA CONSULTANTS, INC.  
ENGINEERS AND GEOLOGISTS  
9245 ACTIVITY ROAD, SUITE 103  
SAN DIEGO, CA 92126 (858) 536-1000

PROJECT NAME  
Riverside Community Hospital  
HCA Design and Construction

PROJECT NUMBER  
SD809  
DOCUMENT NUMBER  
24-0011  
FIGURE NUMBER  
9C

**LATERAL EARTH PRESSURES  
FOR YIELDING RETAINING WALLS**





#### NOTES:

- PASSIVE PRESSURES MAY BE INCREASED BY  $\frac{1}{3}$  DURING SEISMIC LOADING. THE UPPER 12 INCHES OF MATERIAL NOT PROTECTED BY CONCRETE SLABS OR PAVEMENTS SHOULD NOT BE INCLUDED IN THE ESTIMATION OF PASSIVE RESISTANCE.
- ASSUMES NO HYDROSTATIC PRESSURE. A WALL BACK DRAIN SHOULD BE INSTALLED AS RECOMMENDED IN THE *WALL DRAINAGE DETAIL* FIGURE.
- SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, TRAFFIC LOADING OR OTHER UNIFORM LOADING ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE,  $P_s$ . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.
- SEISMIC INCREMENT LATERAL EARTH PRESSURE ( $\Delta P_E$ ) IS BASED ON A DESIGN-LEVEL PEAK GROUND ACCELERATION OF 0.41g. SEISMIC INCREMENT SHOULD BE APPLIED TO WALLS SIX FEET OR GREATER IN HEIGHT.
- 'H' AND 'D' ARE MEASURED IN FEET.
- PRESSURES ASSUME GRANULAR AND NON-EXPANSIVE SOIL MATERIALS COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

#### LATERAL EARTH PRESSURES

| LATERAL EARTH PRESSURE TYPE       | EQUIVALENT FLUID PRESSURE (PCF) |                      |
|-----------------------------------|---------------------------------|----------------------|
| AT-REST, $P_0$                    | LEVEL BACKFILL                  | 2:1 SLOPING BACKFILL |
| COMPACTED FILL                    | 60                              | 90                   |
| SEISMIC INCREMENT, $\Delta P_E^*$ | (SEE FIGURE 9C)                 |                      |
| PASSIVE, $P_p^{**}$               | 300                             |                      |
| SURCHARGE, $P_s$                  | 0.5q                            |                      |

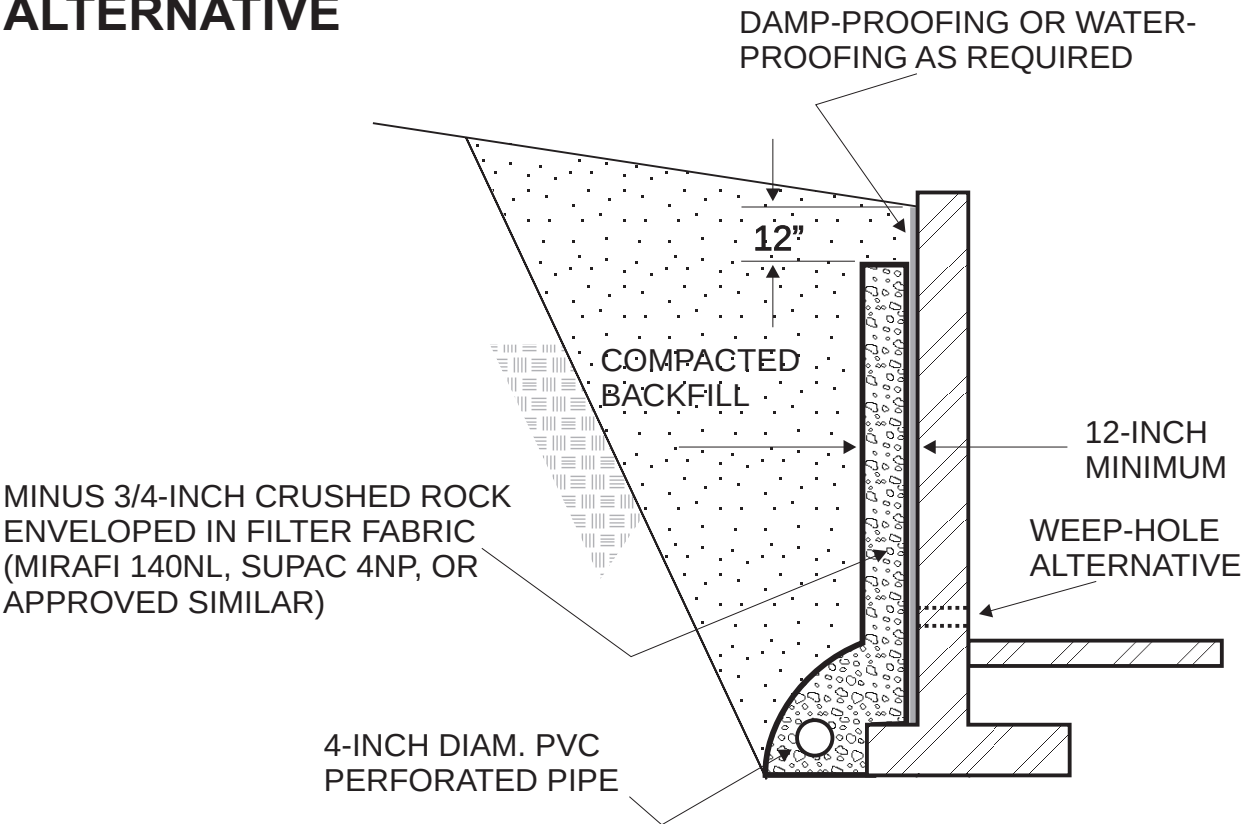
\*SEISMIC PRESSURE,  $P_{AE} = P_A + \Delta P_E$  (SEE FIGURE 9C)

\*\*PASSIVE RESISTANCE VERSUS DISPLACEMENT CURVES CAN BE PROVIDED UPON REQUEST.

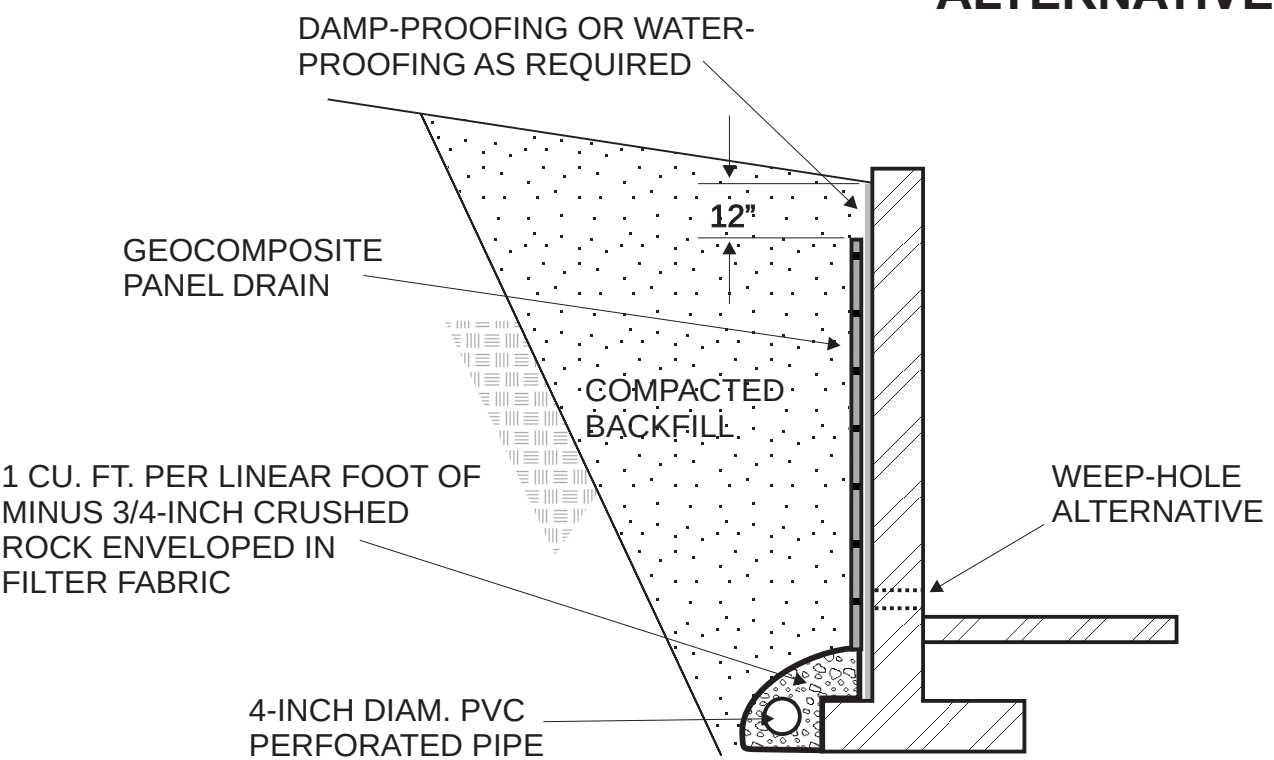
|  |                                                                                                                                         |                                   |
|--|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|  | <b>GROUP DELTA CONSULTANTS, INC.</b><br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 | PROJECT NUMBER<br><b>SD809</b>    |
|  | PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                             | DOCUMENT NUMBER<br><b>24-0011</b> |
|  | FIGURE NUMBER<br><b>9D</b>                                                                                                              |                                   |

**LATERAL EARTH PRESSURES FOR BRACED RETAINING WALLS**

ROCK AND FABRIC  
ALTERNATIVE



PANEL DRAIN  
ALTERNATIVE



NOTES

- 1) Perforated pipe should outlet through a solid pipe to a free gravity outfall. Perforated pipe and outlet pipe should have a fall of at least 1%.
- 2) As an alternative to the perforated pipe and outlet, weep-holes may be constructed. Weep-holes should be at least 2 inches in diameter, spaced no greater than 8 feet, and be located just above grade at the bottom of wall.
- 3) Filter fabric should consist of Mirafi 140N, Supac 5NP, Amoco 4599, or similar approved fabric. Filter fabric should be overlapped at least 6-inches.
- 4) Geocomposite panel drain should consist of Miradrain 6000, J-DRain 400, Supac DS-15, or approved similar product.

|                                                                                       |                                                                                                                                         |                                   |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|  | <b>GROUP DELTA CONSULTANTS, INC.</b><br>ENGINEERS AND GEOLOGISTS<br>9245 ACTIVITY ROAD, SUITE 103<br>SAN DIEGO, CA 92126 (858) 536-1000 | PROJECT NUMBER<br><b>SD809</b>    |
|                                                                                       |                                                                                                                                         | DOCUMENT NUMBER<br><b>24-0011</b> |
|                                                                                       |                                                                                                                                         | FIGURE NUMBER<br><b>9E</b>        |
|                                                                                       | PROJECT NAME<br>Riverside Community Hospital<br>HCA Design and Construction                                                             |                                   |
| <b>WALL DRAINAGE DETAILS</b>                                                          |                                                                                                                                         |                                   |



***APPENDIX A***  
***FIELD EXPLORATION***

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## APPENDIX A

### FIELD EXPLORATION

The field exploration program included a geologic reconnaissance of the site, the advancement of 5 cone penetrometer test (CPT) soundings, the drilling of 10 exploratory borings, and borehole percolation testing at 12 locations. The subsurface explorations and field infiltration tests were completed between March 22<sup>nd</sup> and April 5<sup>th</sup>, 2024. The CPT soundings were advanced by Kehoe Testing and Engineering. The exploratory borings were advanced by Yellow Jacket Drilling. The infiltration tests were completed by Group Delta personnel using a hand auger. The exploration locations are shown on the Exploration Plans, Figures 3A to 3C. The CPT data and interpreted soil profiles are presented in Figures A-1 to A-5. Boring Records are provided in Figures A-6 to A-15. The field infiltration test results are discussed in the text of this report and presented in detail in the figures of Appendix D. The subsurface explorations are summarized in the table below.

| Exploration ID | Exploration Date | Latitude   | Longitude    | Ground Surface Elevation [FT] | Exploration Depth [FT] | Figure No. |
|----------------|------------------|------------|--------------|-------------------------------|------------------------|------------|
| CPT-1          | 03/22/24         | 33.977986° | -117.382803° | 800                           | 34.0                   | A-1        |
| CPT-2          | 03/22/24         | 33.977770° | -117.383393° | 796                           | 37.5                   | A-2        |
| CPT-3          | 03/22/24         | 33.977144° | -117.383833° | 793                           | 20.7                   | A-3        |
| CPT-4          | 03/22/24         | 33.976485° | -117.383034° | 794                           | 25.0                   | A-4        |
| CPT-5          | 03/22/24         | 33.976042° | -117.381919° | 839                           | 54.7                   | A-5        |

|      |          |            |              |     |     |      |
|------|----------|------------|--------------|-----|-----|------|
| B-01 | 04/04/24 | 33.978130° | -117.383124° | 800 | 36½ | A-6  |
| B-02 | 04/01/24 | 33.977907° | -117.383271° | 798 | 51½ | A-7  |
| B-03 | 04/02/24 | 33.977754° | -117.382979° | 798 | 36½ | A-8  |
| B-04 | 04/04/24 | 33.977536° | -117.383915° | 794 | 31  | A-9  |
| B-05 | 04/04/24 | 33.977440° | -117.383294° | 796 | 31½ | A-10 |
| B-06 | 04/03/24 | 33.977308° | -117.384145° | 794 | 31½ | A-11 |
| B-07 | 04/04/24 | 33.976992° | -117.383266° | 794 | 28  | A-12 |
| B-08 | 04/01/24 | 33.976503° | -117.383073° | 794 | 30  | A-13 |
| B-09 | 04/05/24 | 33.976063° | -117.382178° | 832 | 31½ | A-14 |
| B-10 | 04/02/24 | 33.976190° | -117.381820° | 838 | 51½ | A-15 |

The 10 CPT soundings were advanced by Kehoe Testing and Engineering in general accordance with ASTM D5778 using a 30-ton truck mounted rig with a 15 cm<sup>2</sup> cone. Integrated electronic circuitry was used to measure the tip resistance (Qc) and skin friction (Fs) at one-inch intervals while the CPT was advanced into the soil using hydraulic down pressure. Note that each of the CPT soundings was pushed to practical refusal, as indicated by a CPT tip resistance in excess of 700 tons per square foot (TSF). A piezometer located behind the cone tip also measured transient pore pressure (u). The CPT data was used to characterize the soil profile are based on normalized cone resistance and friction ratio interpretations (Robertson, 2010). The first figure for each CPT sounding presents both the raw CPT data and the interpreted soil profile (Figures A-1a to A-5a). The raw CPT data is also shown in more detail in the following Figures A-1b to A-5b for each CPT sounding.



## APPENDIX A

### FIELD EXPLORATION (Continued)

At the location of soundings CPT-1, CPT-2 and CPT-5, shear wave velocity measurements were collected at 5-foot depth intervals using an air actuated hammer located inside the front jack of the rig. The interval shear wave data measured in each of these three CPT soundings is attached immediately after the interpreted soil parameters. The average shear wave velocity measured within the upper 34 to 35 feet ( $V_{sd}$ ) at the location of CPT-1 and CPT-2 was 876 to 899 ft/s. If we assume a uniform shear wave velocity of 1,940 ft/s for the Old Alluvium below that depth based on the lower bound of the shear wave velocity measurements conducted by others, the average shear wave velocity for the upper 100 feet of the soil profile ( $V_{s30}$ ) for the Garage site would be about 1,390 ft/s (CHJ, 2007). This correlates to a 2022 CBC Site Class C for the proposed Garage site.

The average shear wave velocity measured within the upper 55 feet ( $V_{sd}$ ) of the compacted fill and Old Alluvium along the east end of Tower Site in CPT-5 was 1,390 ft/s. If we again assume a shear wave velocity of 1,940 ft/s for the Old Alluvium below that depth, the average shear wave velocity for the upper 100 feet of the soil profile ( $V_{s30}$ ) at the east end of the Tower site is estimated at 1,600 ft/s (CHJ, 2007). This also corresponds to a 2022 CBC Site Class C for the proposed Tower site.

The exploratory borings were advanced by Yellow Jacket Drilling using their CME 75 limited access track mounted rig, and their CME 85 truck mounted rig. Disturbed soil samples were collected from the exploratory borings using a 2-inch outside diameter Standard Penetration Test (SPT) sampler. Less disturbed samples were collected using a 3-inch outside diameter ring lined sampler (a modified California sampler). Automatic hammers with calibrated Energy Transfer Ratios (ETR) ranging from approximately 74 to 80 percent were used to collect all of the drive samples. For each sample, the number of blows needed to drive the sampler 12 inches was recorded on the logs. The field blow counts (N) were normalized to approximate a standard 60 percent ETR as shown on the logs ( $N_{60}$ ). Bulk samples were also collected from the explorations at selected intervals.

The field exploration locations were determined by visually estimating, pacing and taping distances from landmarks shown on the Exploration Plans, Figures 3A to 3C. The locations shown should not be considered more accurate than is implied by the method of measurement used and the scale of the map. The lines designating the interface between differing soil materials on the logs may be abrupt or gradational. Further, soil conditions at locations between the excavations may be substantially different from those at the specific locations we explored. It should be noted that the passage of time may also result in changes in the soil conditions reported in the logs.

Logs for several previous field explorations completed by others are also included in Appendix A1 for reference. These logs include Borings B-1, B-2, B-6, B-7, B-8 and B-9 as well as CPT-1 to CPT-6 at the proposed Tower site (CHJ, 2008). Borings B-1 and B-2 are also included from a previous investigation for the MOB located along the southern edge of the Garage site (CHJ, 2012). The approximate locations of the relevant previous explorations are shown in Figures 3B and 3C.





## SOIL IDENTIFICATION AND DESCRIPTION SEQUENCE

| Sequence | Identification Components             | Refer to Section |       | Required | Optional |
|----------|---------------------------------------|------------------|-------|----------|----------|
|          |                                       | Field            | Lab   |          |          |
| 1        | Group Name                            | 2.5.2            | 3.2.2 | ●        | ○        |
| 2        | Group Symbol                          | 2.5.2            | 3.2.2 | ●        |          |
|          | <b>Description Components</b>         |                  |       |          |          |
| 3        | Consistency of Cohesive Soil          | 2.5.3            | 3.2.3 | ●        |          |
| 4        | Apparent Density of Cohesionless Soil | 2.5.4            |       | ●        |          |
| 5        | Color                                 | 2.5.5            |       | ●        |          |
| 6        | Moisture                              | 2.5.6            |       | ●        |          |
|          | Percent of Proportion of Soil         | 2.5.7            | 3.2.4 | ●        | ●        |
| 7        | Particle Size                         | 2.5.8            | 2.5.8 | ●        | ●        |
|          | Particle Angularity                   | 2.5.9            |       |          | ○        |
|          | Particle Shape                        | 2.5.10           |       |          | ○        |
| 8        | Plasticity (for fine-grained soil)    | 2.5.11           | 3.2.5 |          | ○        |
| 9        | Dry Strength (for fine-grained soil)  | 2.5.12           |       |          | ○        |
| 10       | Dilatancy (for fine-grained soil)     | 2.5.13           |       |          | ○        |
| 11       | Toughness (for fine-grained soil)     | 2.5.14           |       |          | ○        |
| 12       | Structure                             | 2.5.15           |       |          | ○        |
| 13       | Cementation                           | 2.5.16           |       | ●        |          |
| 14       | Percent of Cobbles and Boulders       | 2.5.17           |       | ●        |          |
|          | Description of Cobbles and Boulders   | 2.5.18           |       | ●        |          |
| 15       | Consistency Field Test Result         | 2.5.3            |       | ●        |          |
| 16       | Additional Comments                   | 2.5.19           |       |          | ○        |

### Minimum Required Sequence:

USCS Group Name (Group Symbol); Consistency or Density; Color; Moisture; Percent of Proportion of Soil; Particle Size; Plasticity (optional).

● = optional for non-Caltrans projects

### Where applicable:

Cementation; % cobbles & boulders;  
Description of cobbles & boulders;  
Consistency field test result

## EXPLORATION IDENTIFICATION

Explorations are identified using the following convention

H-YY-NNN

Where:

H: Exploration type code

YY: 2-digit year (where utilized)

NNN: Exploration number

### Hole Type Code and Description

| Hole Type Code | Description                                                   |
|----------------|---------------------------------------------------------------|
| A              | Auger Boring (Hollow or solid stem bucket)                    |
| BA             | Bucket Auger                                                  |
| CPT            | Cone Penetration Test                                         |
| D              | Driven (dynamic cone penetrometer)                            |
| HA             | Hand Auger                                                    |
| HD             | Hand driven (1-inch soil tube)                                |
| O              | Other (note on LOTB)                                          |
| P              | Rotary Percussion Boring (Air)                                |
| R              | Rotary drilled boring (Conventional)                          |
| RC             | Rotary core (self-cased wire-line, continuously sampled)      |
| RW             | Rotary cored (self cased wire-line, not continuously sampled) |
| TP             | Test Pit                                                      |

### Description Sequence Examples:

SANDY lean CLAY (CL); very stiff; yellowish brown; moist; mostly fines; some SAND, from fine to medium; few gravels; medium plasticity; PP=2,75.

Well-graded SAND with SILT and GRAVEL and COBBLES (SW-SM); dense; brown; moist; mostly SAND, from fine to coarse; some fine GRAVEL; few fines; weak cementation; 10% GRANITE COBBLES; 3 to 6 inches; hard, subrounded.

Clayey SAND (SC) medium dense, light brown; wet; mostly fine sand; little fines; low plasticity.



**GROUP DELTA**

EXPLORATION RECORD  
LEGEND #1

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).

| GROUP SYMBOLS AND NAMES |       |                                                                                                                    |  |                |       |                                                                                                                                                                                                                                                |  |
|-------------------------|-------|--------------------------------------------------------------------------------------------------------------------|--|----------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Graphic/Symbol          |       | Group Names                                                                                                        |  | Graphic/Symbol |       | Group Names                                                                                                                                                                                                                                    |  |
|                         | GW    | Well-graded GRAVEL<br>Well-graded GRAVEL with SAND                                                                 |  |                | CL    | Lean CLAY<br>Lean CLAY with SAND<br>Lean CLAY with GRAVEL<br>SANDY lean CLAY<br>SANDY lean CLAY with GRAVEL<br>GRAVELLY lean CLAY<br>GRAVELLY lean CLAY with SAND                                                                              |  |
|                         | GP    | Poorly graded GRAVEL<br>Poorly graded GRAVEL with SAND                                                             |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | GW-GM | Well-graded GRAVEL with SILT<br>Well-graded GRAVEL with SILT and SAND                                              |  |                | CL-ML | SILTY CLAY<br>SILTY CLAY with SAND<br>SILTY CLAY with GRAVEL<br>SANDY SILTY CLAY<br>SANDY SILTY CLAY with GRAVEL<br>GRAVELLY SILTY CLAY<br>GRAVELLY SILTY CLAY with SAND                                                                       |  |
|                         | GW-GC | Well-graded GRAVEL with CLAY (or SILTY CLAY)<br>Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)     |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | GP-GM | Poorly graded GRAVEL with SILT<br>Poorly graded GRAVEL with SILT and SAND                                          |  |                | ML    | SILT<br>SILT with SAND<br>SILT with GRAVEL<br>SANDY SILT<br>SANDY SILT with GRAVEL<br>GRAVELLY SILT<br>GRAVELLY SILT with SAND                                                                                                                 |  |
|                         | GP-GC | Poorly graded GRAVEL with CLAY (or SILTY CLAY)<br>Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | GM    | SILTY GRAVEL<br>SILTY GRAVEL with SAND                                                                             |  |                | OL    | ORGANIC lean CLAY<br>ORGANIC lean CLAY with SAND<br>ORGANIC lean CLAY with GRAVEL<br>SANDY ORGANIC lean CLAY<br>SANDY ORGANIC lean CLAY with GRAVEL<br>GRAVELLY ORGANIC lean CLAY<br>GRAVELLY ORGANIC lean CLAY with SAND                      |  |
|                         | GC    | CLAYEY GRAVEL<br>CLAYEY GRAVEL with SAND                                                                           |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | GC-GM | SILTY, CLAYEY GRAVEL<br>SILTY, CLAYEY GRAVEL with SAND                                                             |  |                | OL    | ORGANIC SILT<br>ORGANIC SILT with SAND<br>ORGANIC SILT with GRAVEL<br>SANDY ORGANIC SILT<br>SANDY ORGANIC SILT with GRAVEL<br>GRAVELLY ORGANIC SILT<br>GRAVELLY ORGANIC SILT with SAND                                                         |  |
|                         | SW    | Well-graded SAND<br>Well-graded SAND with GRAVEL                                                                   |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | SP    | Poorly graded SAND<br>Poorly graded SAND with GRAVEL                                                               |  |                | CH    | Fat CLAY<br>Fat CLAY with SAND<br>Fat CLAY with GRAVEL<br>SANDY fat CLAY<br>SANDY fat CLAY with GRAVEL<br>GRAVELLY fat CLAY<br>GRAVELLY fat CLAY with SAND                                                                                     |  |
|                         | SW-SM | Well-graded SAND with SILT<br>Well-graded SAND with SILT and GRAVEL                                                |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | SW-SC | Well-graded SAND with CLAY (or SILTY CLAY)<br>Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)     |  |                | MH    | Elastic SILT<br>Elastic SILT with SAND<br>Elastic SILT with GRAVEL<br>SANDY elastic SILT<br>SANDY elastic SILT with GRAVEL<br>GRAVELLY elastic SILT<br>GRAVELLY elastic SILT with SAND                                                         |  |
|                         | SP-SM | Poorly graded SAND with SILT<br>Poorly graded SAND with SILT and GRAVEL                                            |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | SP-SC | Poorly graded SAND with CLAY (or SILTY CLAY)<br>Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) |  |                | OH    | ORGANIC fat CLAY<br>ORGANIC fat CLAY with SAND<br>ORGANIC fat CLAY with GRAVEL<br>SANDY ORGANIC fat CLAY<br>SANDY ORGANIC fat CLAY with GRAVEL<br>GRAVELLY ORGANIC fat CLAY<br>GRAVELLY ORGANIC fat CLAY with SAND                             |  |
|                         | SM    | SILTY SAND<br>SILTY SAND with GRAVEL                                                                               |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | SC    | CLAYEY SAND<br>CLAYEY SAND with GRAVEL                                                                             |  |                | OH    | ORGANIC elastic SILT<br>ORGANIC elastic SILT with SAND<br>ORGANIC elastic SILT with GRAVEL<br>SANDY elastic ELASTIC SILT<br>SANDY ORGANIC elastic SILT with GRAVEL<br>GRAVELLY ORGANIC elastic SILT<br>GRAVELLY ORGANIC elastic SILT with SAND |  |
|                         | SC-SM | SILTY, CLAYEY SAND<br>SILTY, CLAYEY SAND with GRAVEL                                                               |  |                |       |                                                                                                                                                                                                                                                |  |
|                         | PT    | PEAT                                                                                                               |  |                | OL/OH | ORGANIC SOIL<br>ORGANIC SOIL with SAND<br>ORGANIC SOIL with GRAVEL<br>SANDY ORGANIC SOIL<br>SANDY ORGANIC SOIL with GRAVEL<br>GRAVELLY ORGANIC SOIL<br>GRAVELLY ORGANIC SOIL with SAND                                                         |  |
|                         |       | COBBLES<br>COBBLES and BOULDERS<br>BOULDERS                                                                        |  |                |       |                                                                                                                                                                                                                                                |  |

| FIELD AND LABORATORY TESTING |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| C                            | Consolidation (ASTM D 2435)                                              |
| CL                           | Collapse Potential (ASTM D 4546)                                         |
| CP                           | Compaction Curve (CTM 216)                                               |
| CR                           | Corrosion, Sulfates, Chlorides (CTM 643; CTM 417; CTM 422)               |
| CU                           | Consolidated Undrained Triaxial (ASTM D 4767)                            |
| DS                           | Direct Shear (ASTM D 3080)                                               |
| EI                           | Expansion Index (ASTM D 4829)                                            |
| M                            | Moisture Content (ASTM D 2216)                                           |
| OC                           | Organic Content (ASTM D 2974)                                            |
| P                            | Permeability (CTM 220)                                                   |
| PA                           | Particle Size Analysis (ASTM D 6913, ASTM D 7928)                        |
| PI                           | Liquid Limit, Plastic Limit, Plasticity Index (AASHTO T 89, AASHTO T 90) |
| PL                           | Point Load Index (ASTM D 5731)                                           |
| PM                           | Pressure Meter                                                           |
| R                            | R-Value (CTM 301)                                                        |
| SE                           | Sand Equivalent (CTM 217)                                                |
| SG                           | Specific Gravity (AASHTO T 100)                                          |
| SL                           | Shrinkage Limit (ASTM D 427)                                             |
| SW                           | Swell Potential (ASTM D 4546)                                            |
| UC                           | Unconfined Compression - Soil (ASTM D 2166)                              |
| UU                           | Unconfined Compression - Rock (ASTM D 2938)                              |
| UW                           | Unit Weight (ASTM D 2937)                                                |
| WA                           | Percent passing the No. 200 Sieve (ASTM D 1140)                          |

| SAMPLER GRAPHIC SYMBOLS |                                              |
|-------------------------|----------------------------------------------|
|                         | Standard Penetration Test (SPT)              |
|                         | Modified California Sampler (2.4" ID, 3" OD) |
|                         | Shelby Tube                                  |
|                         | Piston Sampler                               |
|                         | NX Rock Core                                 |
|                         | HQ Rock Core                                 |
|                         | Bulk Sampler                                 |
|                         | Other (see remarks)                          |

| DRILLING METHOD SYMBOLS |                             |  |                 |
|-------------------------|-----------------------------|--|-----------------|
|                         | Auger Drilling              |  | Rotary Drilling |
|                         | Dynamic Cone or Hand Driven |  | Diamond Core    |

| WATER LEVEL SYMBOLS |                            |
|---------------------|----------------------------|
|                     | Static Water Level Reading |

| Term                        | Definition                                         | Symbol |
|-----------------------------|----------------------------------------------------|--------|
| Unit Change                 | Change in geologic unit                            | _____  |
| Material Change Within Unit | Change of soil classification within geologic unit | -----  |

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).

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 PLOTTED DATE: 6/28/2023 2:51:20 PM. SAVED BY: brendaa

| CONSISTENCY OF COHESIVE SOILS |                      |                                            |                                |                                   |
|-------------------------------|----------------------|--------------------------------------------|--------------------------------|-----------------------------------|
| Description                   | Shear Strength (tsf) | Pocket Penetrometer , PP Measurement (tsf) | Torvane, TV, Measurement (tsf) | Vane Shear, VS, Measurement (tsf) |
| Very Soft                     | Less than 0.12       | Less than 0.25                             | Less than 0.12                 | Less than 0.12                    |
| Soft                          | 0.12 - 0.25          | 0.25 - 0.5                                 | 0.12 - 0.25                    | 0.12 - 0.25                       |
| Medium Stiff                  | 0.25 - 0.5           | 0.5 - 1                                    | 0.25 - 0.5                     | 0.25 - 0.5                        |
| Stiff                         | 0.5 - 1              | 1 - 2                                      | 0.5 - 1                        | 0.5 - 1                           |
| Very Stiff                    | 1 - 2                | 2 - 4                                      | 1 - 2                          | 1 - 2                             |
| Hard                          | Greater than 2       | Greater than 4                             | Greater than 2                 | Greater than 2                    |

| APPARENT DENSITY OF COHESIONLESS SOILS |                                         |
|----------------------------------------|-----------------------------------------|
| Description                            | SPT N <sub>60</sub> (blows / 12 inches) |
| Very Loose                             | 0 - 4                                   |
| Loose                                  | 5 - 9                                   |
| Medium Dense                           | 10 - 29                                 |
| Dense                                  | 30 -50                                  |
| Very Dense                             | Greater than 50                         |

| PERCENT OR PROPORTION OF SOILS |                                                        |
|--------------------------------|--------------------------------------------------------|
| Description                    | Criteria                                               |
| Trace                          | Particles are present but estimated to be less than 5% |
| Few                            | 5 - 10%                                                |
| Little                         | 15 - 25%                                               |
| Some                           | 30 - 45%                                               |
| Mostly                         | 50 - 100%                                              |

| CEMENTATION |                                                            |
|-------------|------------------------------------------------------------|
| Description | Criteria                                                   |
| Weak        | Crumbles or breaks with handling or little finger pressure |
| Moderate    | Crumbles or breaks with considerable finger pressure       |
| Strong      | Will not crumble or break with finger pressure             |

| MOISTURE    |                                    |
|-------------|------------------------------------|
| Description | Criteria                           |
| Dry         | No discernable moisture            |
| Moist       | Moisture present but no free water |
| Wet         | Visible free water                 |

| CONSISTENCY OF COHESIVE SOILS* |                                         |
|--------------------------------|-----------------------------------------|
| Description                    | SPT N <sub>60</sub> (blows / 12 inches) |
| Very Soft                      | 0 - 1                                   |
| Soft                           | 2 - 3                                   |
| Medium Stiff                   | 4 - 7                                   |
| Stiff                          | 8 - 14                                  |
| Very Stiff                     | 15 - 30                                 |
| Hard                           | Greater than 30                         |

\* Ref: Peck, Hansen, and Thornburn, 1974, "Foundation Engineering," Second Edition.

Note: Only to be used (with caution) when pocket penetrometer or other data on undrained shear strength are unavailable.  
 Not allowed by Caltrans Soil and Rock Logging and Classification Manual, 2010.

| PARTICLE SIZE |        |                 |
|---------------|--------|-----------------|
| Description   |        | Size (in)       |
| Boulder       |        | Greater than 12 |
| Cobble        |        | 3 - 12          |
| Gravel        | Coarse | 3/4 - 3         |
|               | Fine   | 1/5 - 3/4       |
| Sand          | Coarse | 1/16 -1/5       |
|               | Medium | 1/64 - 1/16     |
|               | Fine   | 1/300 - 1/64    |
| Silt and Clay |        | Less than 1/300 |

| PLASTICITY  |                                                                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Criteria                                                                                                                                                                                                                           |
| Nonplastic  | A 1/8-in. thread cannot be rolled at any water content                                                                                                                                                                             |
| Low         | The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit                                                                                                                                    |
| Medium      | The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit                           |
| High        | It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit. |

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010), with the exception of consistency of cohesive soils vs. N<sub>60</sub>.


**GROUP DELTA**

**EXPLORATION RECORD**  
**LEGEND #3**



| LEGEND OF ROCK MATERIALS |                  |
|--------------------------|------------------|
|                          | Igneous Rock     |
|                          | Sedimentary Rock |
|                          | Metamorphic Rock |

| BEDDING SPACING     |                     |
|---------------------|---------------------|
| Description         | Thickness / Spacing |
| Massive             | Greater than 10ft   |
| Very Thickly Bedded | 3 ft - 10 ft        |
| Thickly Bedded      | 1 ft - 3 ft         |
| Moderately Bedded   | 4 in - 1 ft         |
| Thinly Bedded       | 1 in - 4 in         |
| Very Thinly Bedded  | 1/4 in - 1 in       |
| Laminated           | Less than 1/4 in    |

| WEATHERING DESCRIPTORS FOR INTACT ROCK |                                                                                                                                                                                               |                                                                    |                                                                                           |                                                                                                                              |                                              |                                                                                                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Diagnostic Features                    |                                                                                                                                                                                               |                                                                    |                                                                                           |                                                                                                                              |                                              |                                                                                                                                                                                                                                                       |
| Description                            | Chemical Weathering - Discoloration - Oxidation                                                                                                                                               |                                                                    | Mechanical Weathering and Grain Boundary Conditions                                       | Texture and Leaching                                                                                                         |                                              | General Characteristics                                                                                                                                                                                                                               |
|                                        | Body of Rock                                                                                                                                                                                  | Fracture Surfaces                                                  |                                                                                           | Texture                                                                                                                      | Leaching                                     |                                                                                                                                                                                                                                                       |
| Fresh                                  | No discoloration, no oxidized                                                                                                                                                                 | No discoloration or oxidation                                      | No separation, intact (tight)                                                             | No change                                                                                                                    | No leaching                                  | Hammer rings when crystalline rocks are struck                                                                                                                                                                                                        |
| Slightly Weathered                     | Discoloration or oxidation is limited to surface of, or short distance from, fractures; some feldspar crystals are dull                                                                       | Minor to complete discoloration or oxidation of most surfaces      | No visible separation, intact (tight)                                                     | Preserved                                                                                                                    | Minor leaching of some soluble minerals      | Hammer does not ring when rock is struck. Body of rock not weakened                                                                                                                                                                                   |
| Moderately Weathered                   | Discoloration or oxidation extends from fractures usually throughout; Fe-Mg minerals are "rusty"; feldspar crystals are "cloudy"                                                              | All fracture surfaces are discolored or oxidized                   | Partial separation of boundaries visible                                                  | Generally Preserved                                                                                                          | Soluble minerals may be mostly leached       | Hammer does not ring when rock is struck. Body of rock is slightly weakened                                                                                                                                                                           |
| Intensely Weathered                    | Discoloration or oxidation throughout; all feldspars and Fe-Mg minerals are altered to clay to some extent; or chemical alteration produces in situ disaggregation, grain boundary conditions | All fracture surfaces are discolored or oxidized; surfaces friable | Partial separation, rock is friable; in semi-arid conditions, granitics are disaggregated | Texture altered by chemical disintegration (hydration, argillation)                                                          | Leaching of soluble minerals may be complete | Dull sound when struck with hammer; usually can be broken with moderate to heavy manual pressure or by light hammer blow without reference to planes of weakness such as incipient or hairline fractures of veinlets. Rock is significantly weakened. |
| Decomposed                             | Discolored or oxidized throughout, but resistant minerals such as quartz may be unaltered; all feldspars and Fe-Mg minerals are completely altered to clay                                    |                                                                    | Complete separation of grain boundaries (disaggregated)                                   | Resembles a soil; partial or complete remnant rock structure may be preserved; leaching of soluble minerals usually complete |                                              | Can be granulated by hand. Resistant minerals such as quartz may be present as "stringers" or "dikes"                                                                                                                                                 |

| PERCENT CORE RECOVERY (REC)                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| $\frac{\sum \text{LENGTH OF THE RECOVERED CORE PIECES (IN.)}}{\text{TOTAL LENGTH OF CORE RUN (IN.)}} \times 100$ |

| PERCENT CORE RECOVERY (REC)                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------|
| $\frac{\sum \text{LENGTH OF THE INTACT CORE PIECES} \geq 4 \text{ IN.}}{\text{TOTAL LENGTH OF CORE RUN (IN.)}} \times 100$ |
| RQD* INDICATES SOUNDNESS CRITERIA NOT MET                                                                                  |

| ROCK HARDNESS   |                                                                                                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description     | Criteria                                                                                                                                                            |
| Extremely Hard  | Cannot be scratched with a pocketknife or sharp pick. Can only be chipped with repeated heavy hammer blows.                                                         |
| Very Hard       | Cannot be scratched with a pocketknife or sharp pick. Breaks with repeated heavy hammer blows.                                                                      |
| Hard            | Can be scratched with a pocketknife or sharp pick with difficulty (heavy pressure). Breaks with heavy hammer blows.                                                 |
| Moderately Hard | Can be scratched with a pocketknife or sharp pick with light or moderate pressure. Breaks with moderate hammer blows.                                               |
| Moderately Soft | Can be grooved 1/16 in. deep with a pocketknife or sharp pick with moderate or heavy pressure. Breaks with light hammer blow or heavy manual pressure.              |
| Soft            | Can be grooved or gouged easily with a pocketknife or sharp pick with light pressure, can be scratched with fingernail. Breaks with light moderate manual pressure. |
| Very Soft       | Can be readily indented, grooved or gouged with fingernail, or carved with a pocketknife. Breaks with light manual pressure.                                        |

| FRACTURE DENSITY         |                                     |
|--------------------------|-------------------------------------|
| Description              | Observed Fracture Density           |
| Unfractured              | No fractures                        |
| Very Slightly Fractured  | Core lengths greater than 3 ft      |
| Slightly Fractured       | Core lengths mostly from 1 to 3 ft  |
| Moderately Fractured     | Core lengths mostly 4 in. to 1 ft.  |
| Intensely Fractured      | Core lengths mostly from 1 to 4 in. |
| Very Intensely Fractured | Mostly chips and fragments.         |


**GROUP DELTA**

**EXPLORATION RECORD**  
**LEGEND #4**

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).



**GROUP DELTA**

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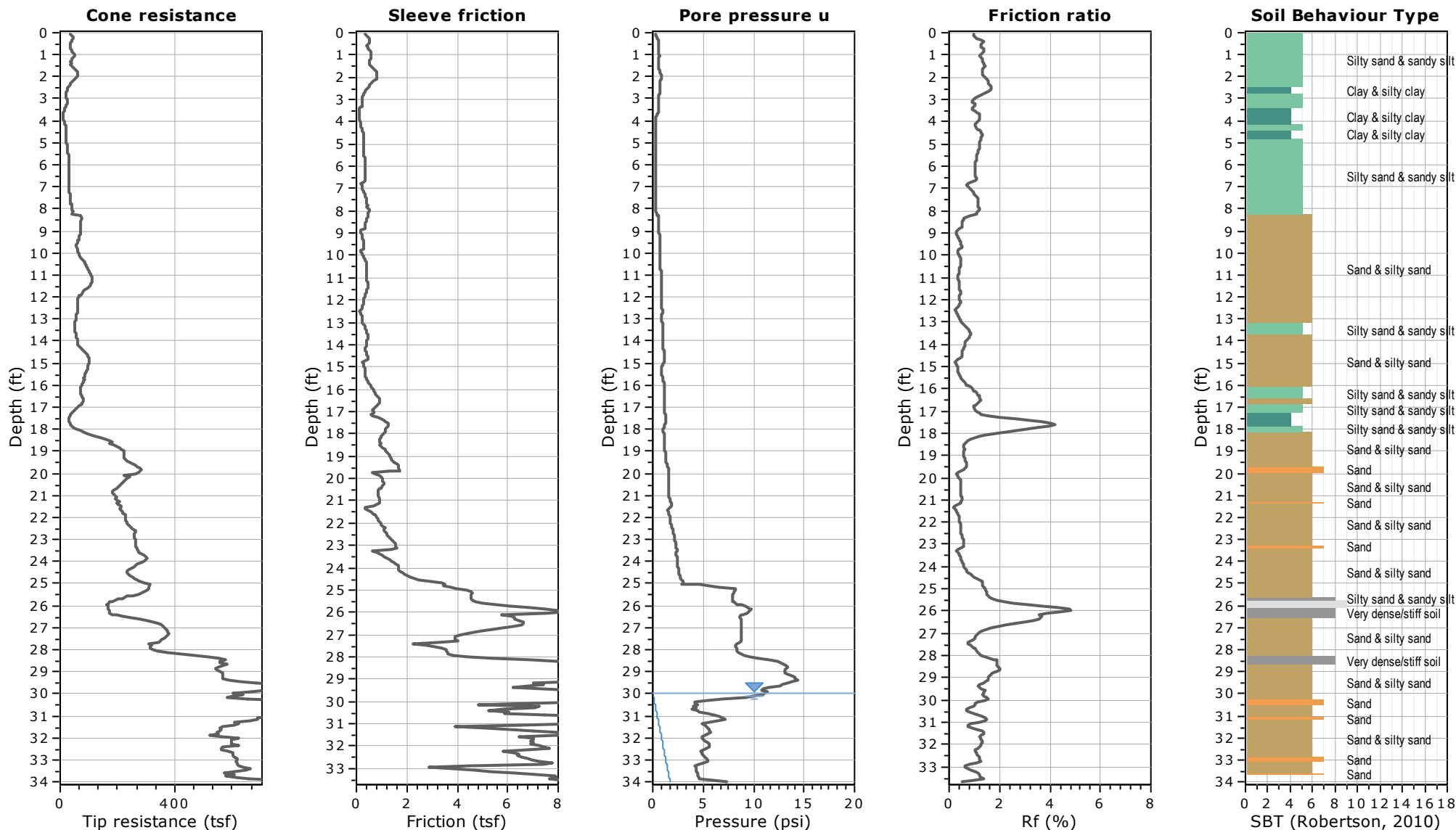
**Project: Riverside Community Hospital**

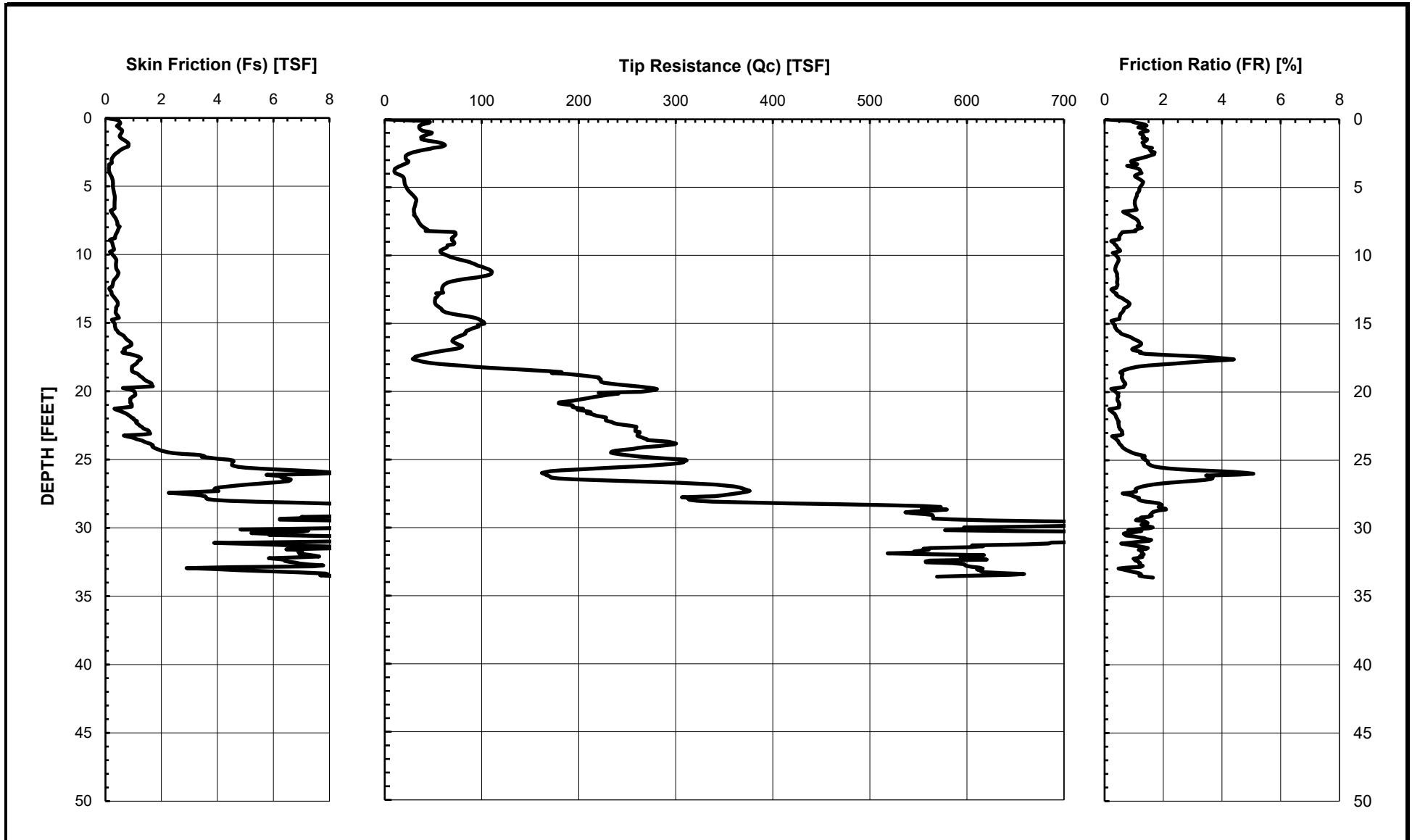
**Location: 4468 Brockton Avenue, Riverside, California 92501**

**CPT-1**

Total depth: 33.99 ft, Date: 3/22/2024

Surface Elevation: 800.00 ft





**GROUP DELTA**

**CONE PENETROMETER DATA (CPT-1)**

Document No. 24-0011

Project No. SD809

**FIGURE A-1b**





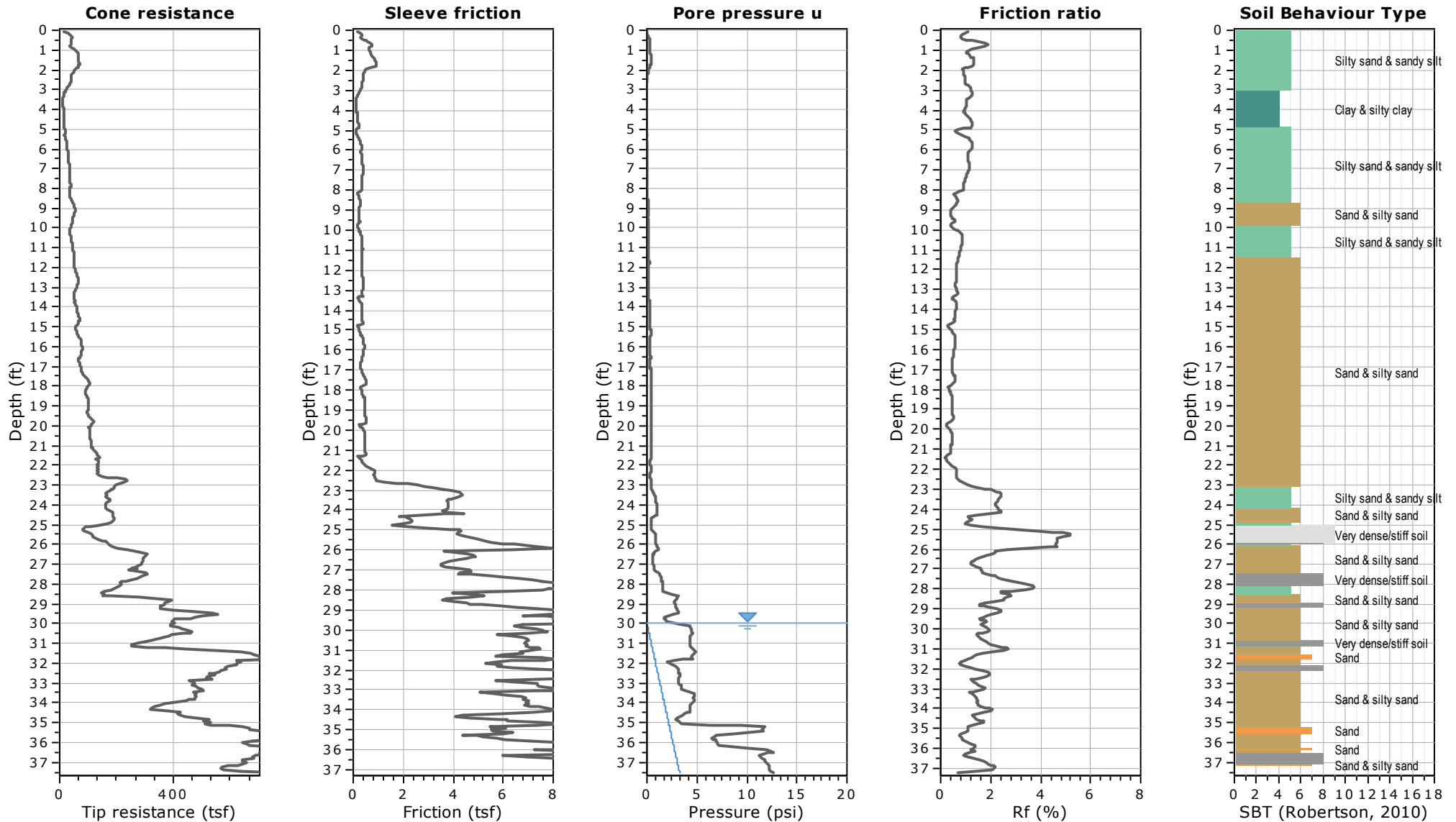
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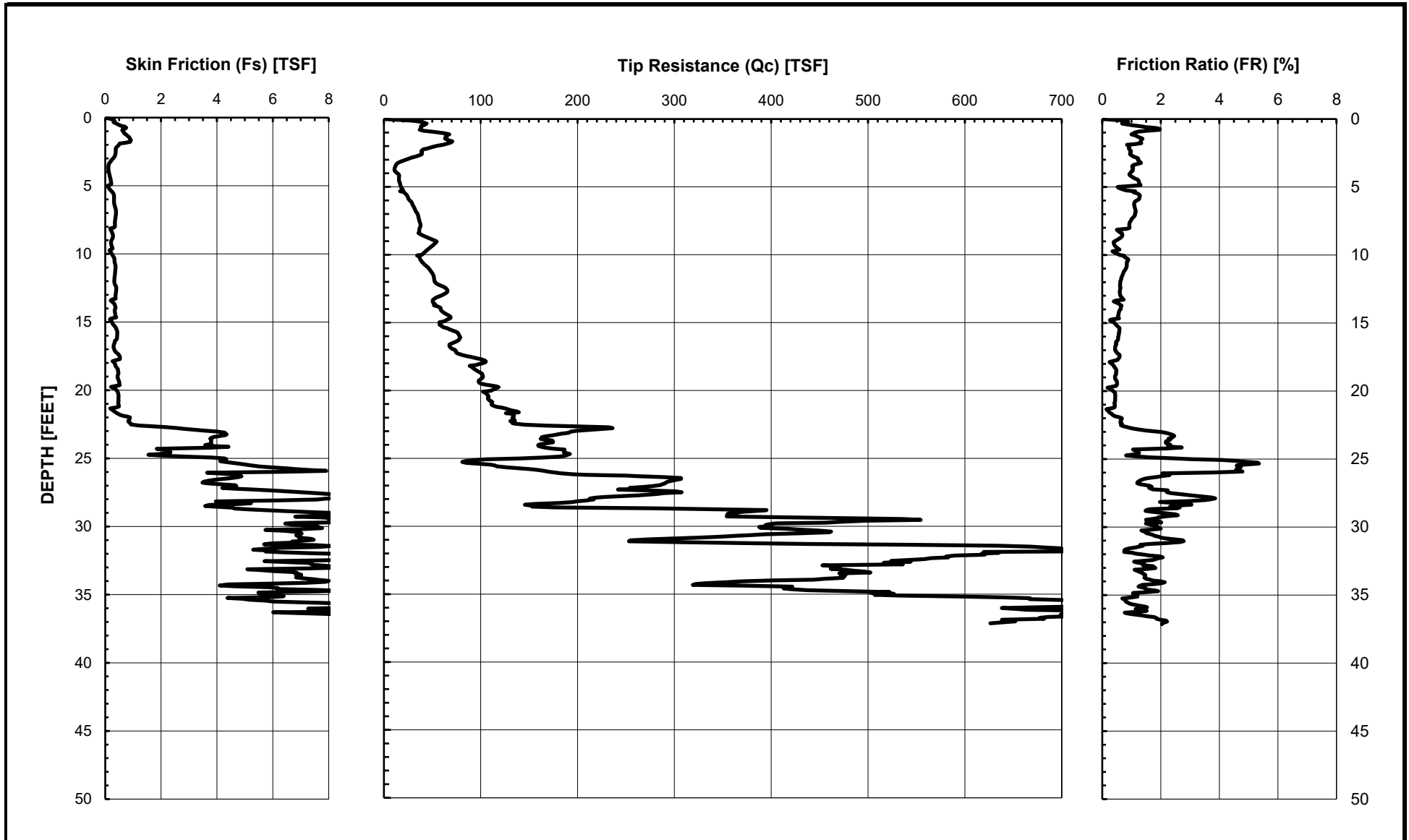
**Location: 4468 Brockton Avenue, Riverside, California 92501**

## CPT-2

Total depth: 37.54 ft, Date: 3/22/2024

Surface Elevation: 796.00 ft





**GROUP DELTA**

**CONE PENETROMETER DATA (CPT-2)**

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**FIGURE A-2b**



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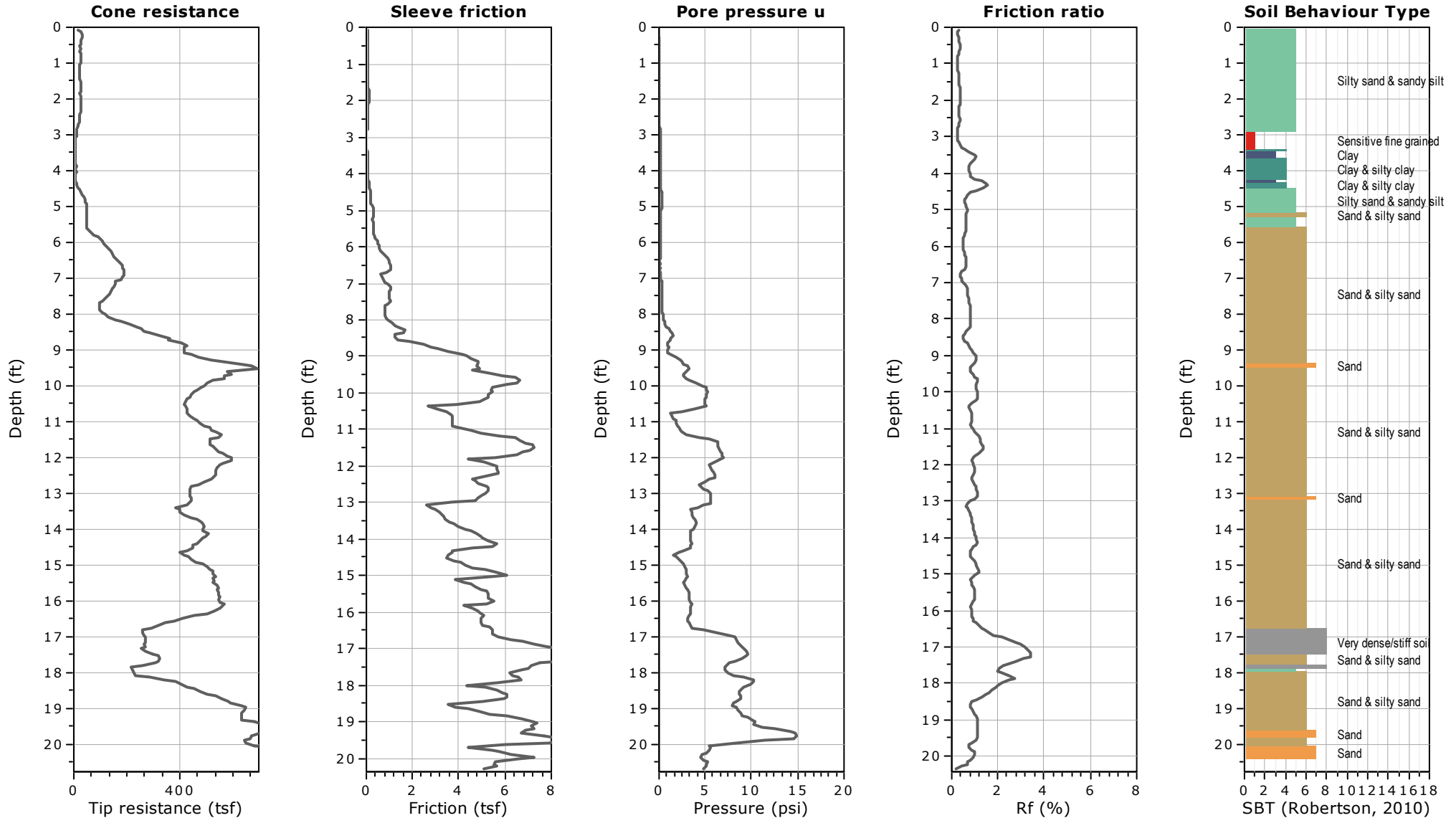
**Project: Riverside Community Hospital**

**Location: 4468 Brockton Avenue, Riverside, California 92501**

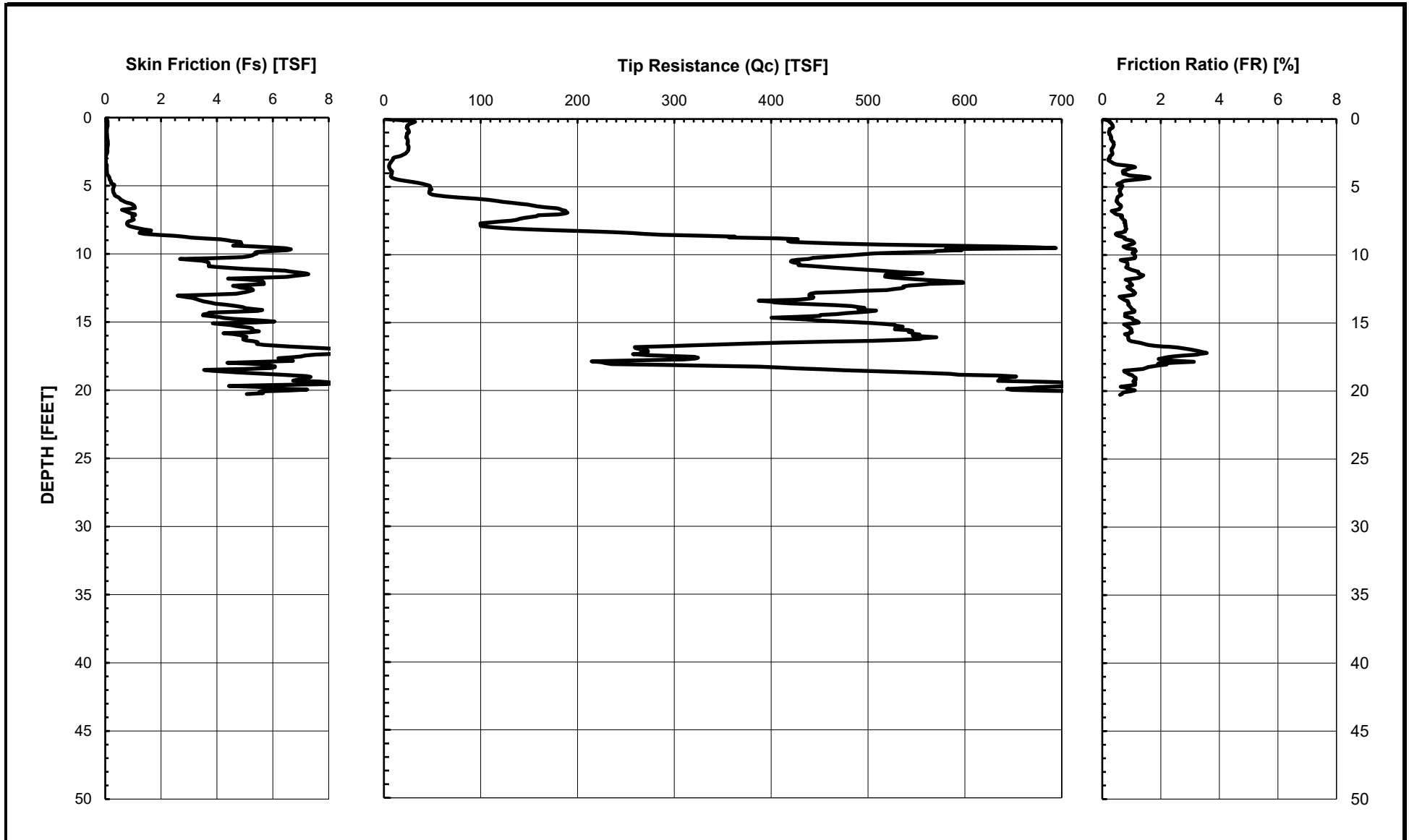
**CPT-3**

Total depth: 20.67 ft, Date: 3/22/2024

Surface Elevation: 793.00 ft







**GROUP DELTA**

**CONE PENETROMETER DATA (CPT-3)**

Document No. 24-0011

Project No. SD809

**FIGURE A-3b**



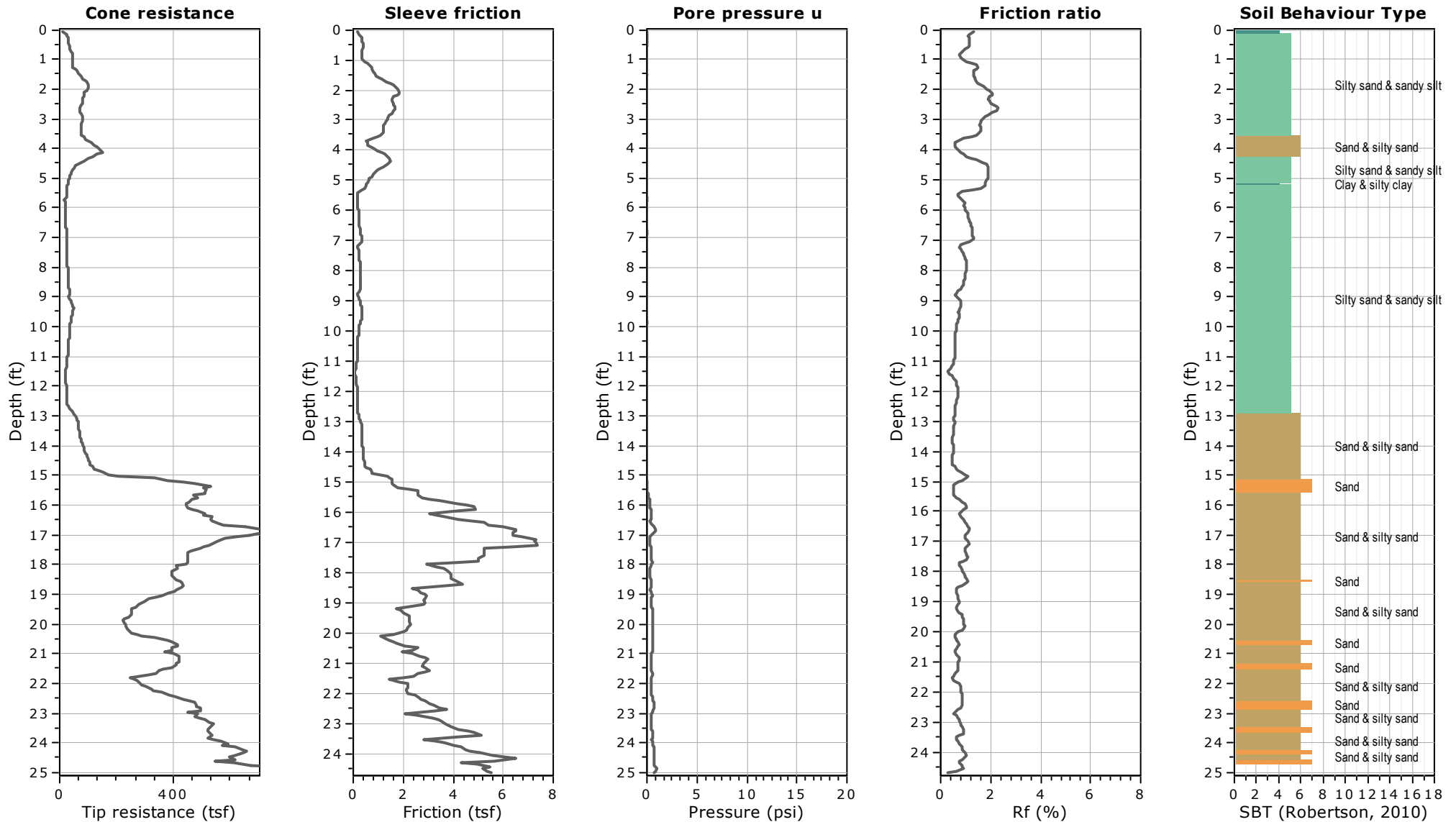
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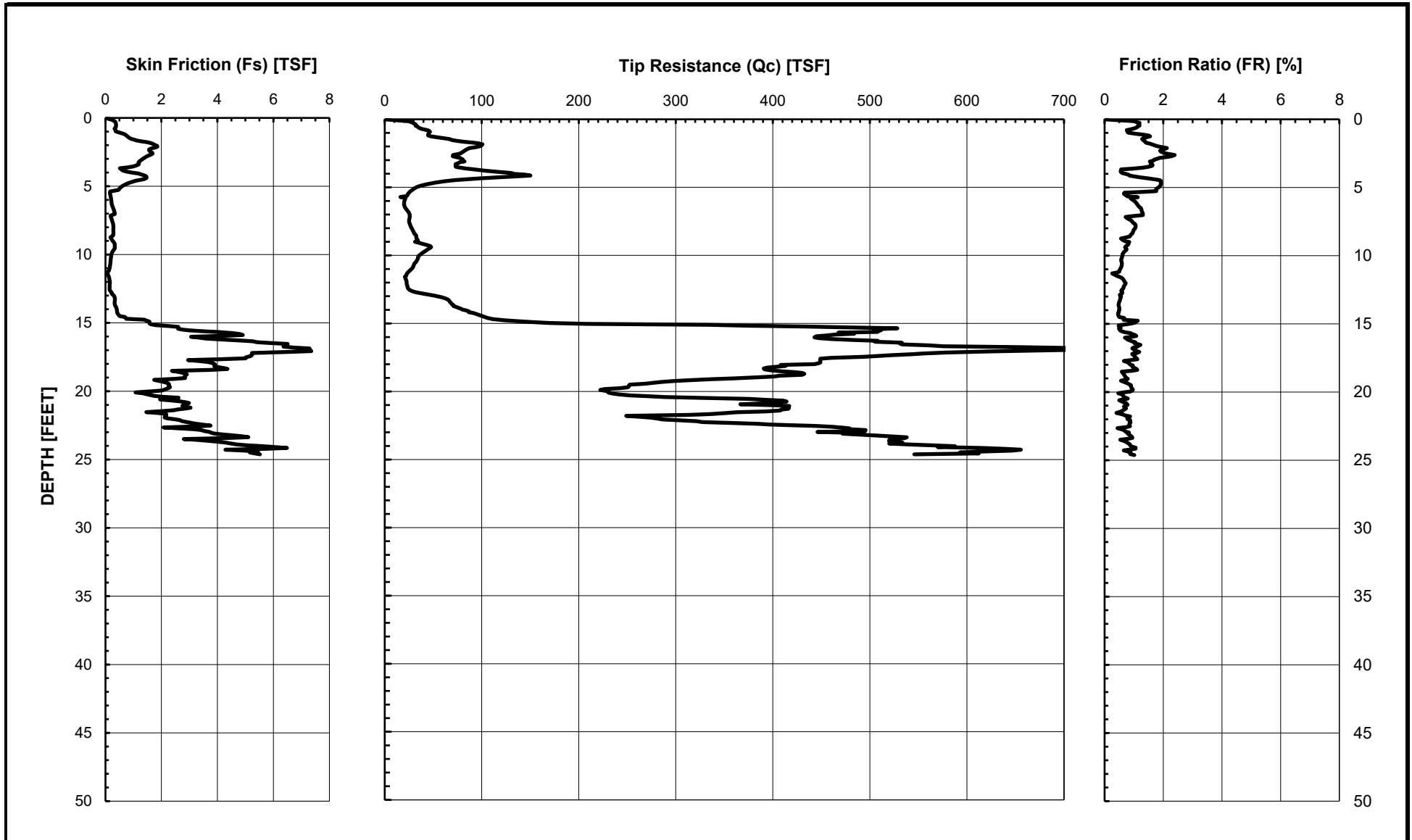
**Location: 4468 Brockton Avenue, Riverside, California 92501**

## CPT-4

Total depth: 25.01 ft, Date: 3/22/2024

Surface Elevation: 794.00 ft





**GROUP DELTA**

**CONE PENETROMETER DATA (CPT-4)**

Document No. 24-0011

Project No. SD809

**FIGURE A-4b**



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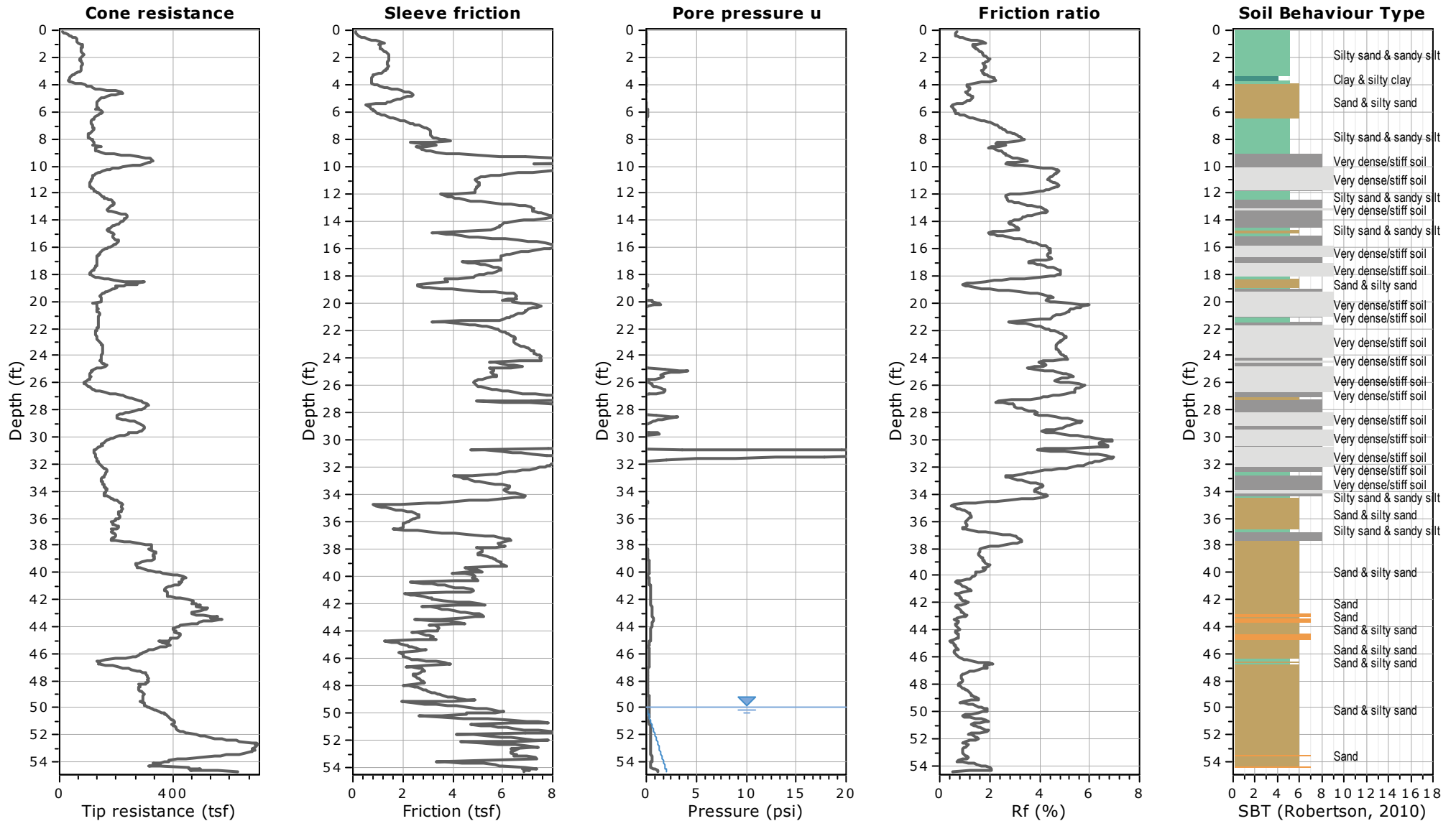
**Project: Riverside Community Hospital**

**Location: 4468 Brockton Avenue, Riverside, California 92501**

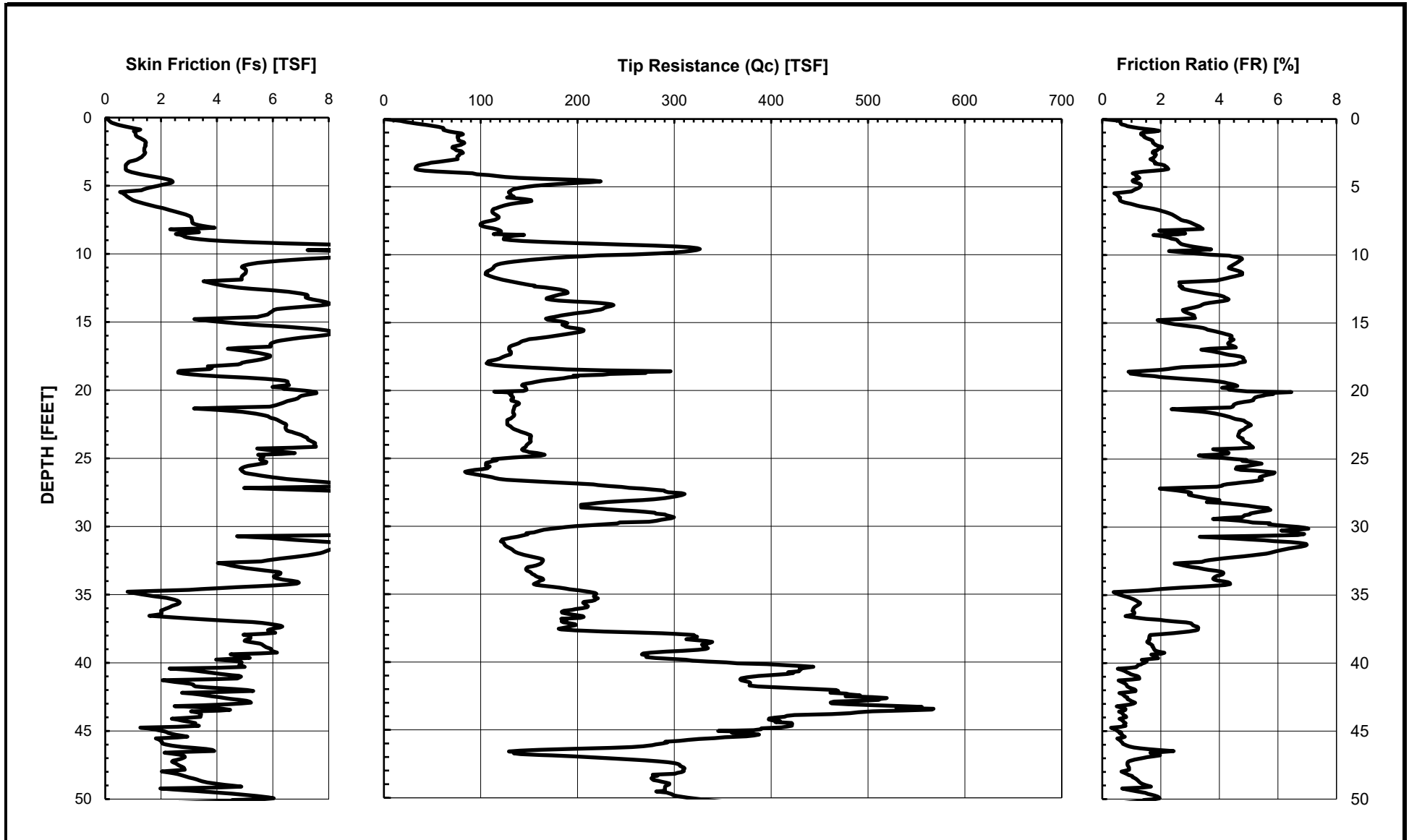
**CPT-5**

Total depth: 54.73 ft, Date: 3/22/2024

Surface Elevation: 839.00 ft







**GROUP DELTA**

**CONE PENETROMETER DATA (CPT-5)**

Document No. 24-0011

Project No. SD809

**FIGURE A-5b**

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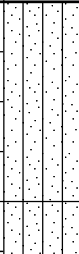
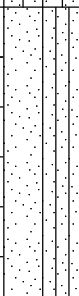
CPT Shear Wave Measurements

| Location | Tip<br>Depth<br>(ft) | Geophone<br>Depth<br>(ft) | Travel<br>Distance<br>(ft) | S-Wave<br>Arrival<br>(msec) | S-Wave<br>Velocity<br>from Surface<br>(ft/sec) | Interval<br>S-Wave<br>Velocity<br>(ft/sec) |
|----------|----------------------|---------------------------|----------------------------|-----------------------------|------------------------------------------------|--------------------------------------------|
| CPT-1    | 5.02                 | 4.02                      | 4.49                       | 5.86                        | 766                                            |                                            |
|          | 10.04                | 9.04                      | 9.26                       | 13.64                       | 679                                            | 613                                        |
|          | 15.03                | 14.03                     | 14.17                      | 20.74                       | 683                                            | 692                                        |
|          | 20.01                | 19.01                     | 19.11                      | 27.28                       | 701                                            | 756                                        |
|          | 25.03                | 24.03                     | 24.11                      | 31.36                       | 769                                            | 1225                                       |
|          | 30.02                | 29.02                     | 29.09                      | 35.44                       | 821                                            | 1220                                       |
|          | 33.92                | 32.92                     | 32.98                      | 37.44                       | 881                                            | 1946                                       |
|          |                      |                           |                            |                             |                                                |                                            |
| CPT-2    | 5.02                 | 4.02                      | 4.49                       | 4.24                        | 1059                                           |                                            |
|          | 10.01                | 9.01                      | 9.23                       | 13.50                       | 684                                            | 512                                        |
|          | 15.03                | 14.03                     | 14.17                      | 19.80                       | 716                                            | 785                                        |
|          | 20.01                | 19.01                     | 19.11                      | 26.12                       | 732                                            | 782                                        |
|          | 25.03                | 24.03                     | 24.11                      | 32.00                       | 754                                            | 850                                        |
|          | 30.02                | 29.02                     | 29.09                      | 35.22                       | 826                                            | 1545                                       |
|          | 35.01                | 34.01                     | 34.07                      | 37.78                       | 902                                            | 1945                                       |
|          |                      |                           |                            |                             |                                                |                                            |
| CPT-5    | 5.02                 | 4.02                      | 4.49                       | 2.46                        | 1825                                           |                                            |
|          | 10.01                | 9.01                      | 9.23                       | 5.94                        | 1554                                           | 1362                                       |
|          | 15.06                | 14.06                     | 14.20                      | 8.96                        | 1585                                           | 1646                                       |
|          | 20.05                | 19.05                     | 19.15                      | 13.04                       | 1469                                           | 1214                                       |
|          | 25.03                | 24.03                     | 24.11                      | 16.26                       | 1483                                           | 1540                                       |
|          | 30.02                | 29.02                     | 29.09                      | 20.44                       | 1423                                           | 1190                                       |
|          | 35.01                | 34.01                     | 34.07                      | 24.28                       | 1403                                           | 1297                                       |
|          | 39.99                | 38.99                     | 39.04                      | 26.98                       | 1447                                           | 1842                                       |
|          | 45.01                | 44.01                     | 44.06                      | 31.46                       | 1400                                           | 1119                                       |
|          | 50.03                | 49.03                     | 49.07                      | 35.20                       | 1394                                           | 1341                                       |
|          | 54.69                | 53.69                     | 53.73                      | 38.74                       | 1387                                           | 1315                                       |

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival  
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                 |               |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                           |                            |  |
|------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------|-----------------------------------------------------|-------------|-------------------------------------------------------------------|--------------|---------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            | <b>PROJECT NAME</b><br>Riverside Community Hospital |             |                                                                   |              | <b>PROJECT NUMBER</b><br>SD809  |               |                                                                                                                                                                                                                                                                                  |                                                                                     | <b>BORING</b><br><b>B-01</b>                                                                                                                                                                              |                            |  |
| <b>SITE LOCATION</b><br>Proposed Parking Garage and Tower Sites                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              | <b>START</b><br>4/4/2024        |               | <b>FINISH</b><br>4/4/2024                                                                                                                                                                                                                                                        |                                                                                     | <b>SHEET NO.</b><br>1 of 2                                                                                                                                                                                |                            |  |
| <b>DRILLING COMPANY</b><br>Yellow Jacket Drilling                                                    |                  |                                                                                     |            |                                                     |             | <b>DRILLING METHOD</b><br>Hollow Stem Auger                       |              |                                 |               | <b>LOGGED BY</b><br>JWJ                                                                                                                                                                                                                                                          |                                                                                     | <b>CHECKED BY</b><br>MAF                                                                                                                                                                                  |                            |  |
| <b>DRILLING EQUIPMENT</b><br>CME 75 Limited Access Rig #142                                          |                  |                                                                                     |            |                                                     |             | <b>BORING DIA. (in)</b><br>8                                      |              | <b>TOTAL DEPTH (ft)</b><br>36.5 |               | <b>GROUND ELEV (ft)</b><br>800                                                                                                                                                                                                                                                   |                                                                                     | <b>DEPTH/ELEV. GROUNDWATER (ft)</b><br>▼ / na                                                                                                                                                             |                            |  |
| <b>SAMPLING METHOD</b><br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                 |                  |                                                                                     |            |                                                     |             | <b>NOTES</b><br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |              |                                 |               |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                           |                            |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN)               | BLOW/FT "N" | N <sub>60</sub>                                                   | MOISTURE (%) | DRY DENSITY (pcf)               | OTHER TESTS   | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                            |                            |  |
|                                                                                                      |                  |    | B-1        |                                                     |             |                                                                   |              |                                 | PA            |                                                                                                                                                                                                                                                                                  |    | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL; nonplastic.<br><br>(1% Gravel; 60% Sand; 39% Fines)    |                            |  |
| 5                                                                                                    | 795              |    | S-2        | 2<br>4<br>4                                         | 8           | 10                                                                |              |                                 |               | 5                                                                                                                                                                                                                                                                                |   | <b>YOUNG ALLUVIUM:</b> SILTY SAND (SM); medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL; nonplastic.                                           |                            |  |
| 10                                                                                                   | 790              |  | R-3        | 3<br>5<br>7                                         | 12          | 10                                                                | 9.9          | 107                             |               | 10                                                                                                                                                                                                                                                                               |  | POORLY-GRADED SAND WITH SILT (SP-SM); medium dense; dark yellowish brown (10YR 4/6); moist; mostly fine to medium SAND; little fines; trace GRAVEL; nonplastic; micaceous.                                |                            |  |
| 15                                                                                                   | 785              |  | S-4        | 3<br>4<br>5                                         | 9           | 11                                                                |              |                                 |               | 15                                                                                                                                                                                                                                                                               |  | WELL-GRADED SAND WITH SILT (SW-SM); medium dense; light yellowish brown (10YR 6/4) to dark yellowish brown (10YR 4/6); moist; mostly fine to coarse SAND; few fines; trace GRAVEL; nonplastic; micaceous. |                            |  |
| 20                                                                                                   | 780              |  | R-5        | 7<br>11<br>15                                       | 26          | 21                                                                | 22.4         | 102                             | PA<br>PI<br>C | 20                                                                                                                                                                                                                                                                               |  | LEAN CLAY (CL); very stiff; yellowish brown (10YR 4/6); moist; mostly fines; little fine SAND; low plasticity.<br><br>(0% Gravel; 11% Sand; 89% Fines)<br><br>(LL~37; PL~19; PI~18)                       |                            |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                 |               | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                     |                                                                                                                                                                                                           | <b>FIGURE</b><br><br>A-6 a |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                             |                                        |  |
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| <b>BORING RECORD</b>                                                                                 |                  |             |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                         | BORING<br><b>B-01</b>                                                                                                                                       |                                        |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |             |            |                                       |             |                 |                                                            |                   | START<br>4/4/2024        |                                                                                                                                                                                                                                                                                  | FINISH<br>4/4/2024      |                                                                                                                                                             | SHEET NO.<br>2 of 2                    |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |             |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          | LOGGED BY<br>JWJ                                                                                                                                                                                                                                                                 |                         | CHECKED BY<br>MAF                                                                                                                                           |                                        |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |             |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>36.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>800 |                                                                                                                                                             | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |             |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                             |                                        |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG             | DESCRIPTION AND CLASSIFICATION                                                                                                                              |                                        |  |
|                                                                                                      |                  |             | S-6        | 5<br>9<br>10                          | 19          | 23              |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         | <b>YOUNG ALLUVIUM:</b> SANDY LEAN CLAY (CL); very stiff; yellowish brown (10YR 5/6); moist; mostly fines; little fine SAND; low plasticity.<br><br>PP~2 TSF |                                        |  |
| 30                                                                                                   | 770              |             | R-7        | 8<br>13<br>20                         | 33          | 27              | 16.0                                                       | 117               |                          | 30                                                                                                                                                                                                                                                                               |                         | CLAYEY SAND (SC); medium dense; yellowish brown (10YR 5/4); moist; mostly fine to coarse SAND; some fines; low plasticity.                                  |                                        |  |
| 35                                                                                                   | 765              |             | S-8        | 3<br>9<br>18                          | 27          | 33              |                                                            |                   |                          | 35                                                                                                                                                                                                                                                                               |                         | <b>OLD ALLUVIUM:</b> SANDY LEAN CLAY (CL); hard; yellowish brown (10YR 4/6); moist; mostly fines; some fine to medium SAND; low plasticity; micaceous.      |                                        |  |
| 40                                                                                                   | 760              |             |            |                                       |             |                 |                                                            |                   |                          | 40                                                                                                                                                                                                                                                                               |                         | Total Depth: 36½ Feet<br>Groundwater Not Encountered                                                                                                        |                                        |  |
| 45                                                                                                   | 755              |             |            |                                       |             |                 |                                                            |                   |                          | 45                                                                                                                                                                                                                                                                               |                         |                                                                                                                                                             |                                        |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                         |                                                                                                                                                             | <b>FIGURE</b><br><br>A-6 b             |  |



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|                                                                                                      |                  |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                |                                                |                            |  |
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| <b>BORING RECORD</b>                                                                                 |                  |             |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                         | BORING<br><b>B-02</b>                                                                                                                                                          |                                                |                            |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |             |            |                                       |             |                 |                                                            |                   |                          | START<br>4/1/2024                                                                                                                                                                                                                                                                |                         | FINISH<br>4/1/2024                                                                                                                                                             |                                                | SHEET NO.<br>1 of 3        |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |             |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          | LOGGED BY<br>JWJ                                                                                                                                                                                                                                                                 |                         | CHECKED BY<br>MAF                                                                                                                                                              |                                                |                            |  |
| DRILLING EQUIPMENT<br>CME 85 Truck Mounted Rig #120                                                  |                  |             |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>51.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>798 |                                                                                                                                                                                | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ 36.0 / 762.0 |                            |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |             |            |                                       |             |                 | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                |                                                |                            |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG             | DESCRIPTION AND CLASSIFICATION                                                                                                                                                 |                                                |                            |  |
|                                                                                                      |                  |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         | <b>PAVEMENT:</b> 2-inches Asphalt Concrete.                                                                                                                                    |                                                |                            |  |
|                                                                                                      | 795              |             | B-1        |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace fine GRAVEL; nonplastic; micaceous. |                                                |                            |  |
| 5                                                                                                    |                  |             | S-2        | 1<br>2<br>2                           | 4           | 5               |                                                            |                   |                          | 5                                                                                                                                                                                                                                                                                |                         | <b>YOUNG ALLUVIUM:</b> SILTY SAND (SM); loose; dark yellowish brown (10YR 4/6); moist; mostly fine to medium SAND; little fines; trace fine GRAVEL; nonplastic.                |                                                |                            |  |
|                                                                                                      | 790              |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                |                                                |                            |  |
| 10                                                                                                   |                  |             | R-3        | 2<br>5<br>5                           | 10          | 9               | 3.2                                                        | 109               | PA<br>DS                 | 10                                                                                                                                                                                                                                                                               |                         | (3% Gravel; 83% Sand; 14% Fines)                                                                                                                                               |                                                |                            |  |
|                                                                                                      | 785              |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                |                                                |                            |  |
| 15                                                                                                   |                  |             | S-4        | 1<br>2<br>3                           | 5           | 7               |                                                            |                   |                          | 15                                                                                                                                                                                                                                                                               |                         |                                                                                                                                                                                |                                                |                            |  |
|                                                                                                      | 780              |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                |                                                |                            |  |
| 20                                                                                                   |                  |             | R-5        | 4<br>12<br>15                         | 27          | 24              | 22.6                                                       | 106               | PA<br>PI<br>C            | 20                                                                                                                                                                                                                                                                               |                         | LEAN CLAY (CL); hard; dark yellowish brown (10YR 4/4); moist; mostly fines; trace fine SAND; medium plasticity.                                                                |                                                |                            |  |
|                                                                                                      | 775              |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         | (0% Gravel; 3% Sand; 97% Fines)                                                                                                                                                |                                                |                            |  |
|                                                                                                      |                  |             |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                         | (LL~46; PL~22; PI~24)                                                                                                                                                          |                                                |                            |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                         |                                                                                                                                                                                |                                                | <b>FIGURE</b><br><br>A-7 a |  |

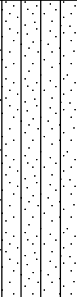
GDC\_LOG\_BORING\_MMXX\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |             |            |                                                            |             |                          |              |                         |             |                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                                                                                                 |  |
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| <b>BORING RECORD</b>                                                                                 |                  |             |            | PROJECT NAME<br>Riverside Community Hospital               |             |                          |              | PROJECT NUMBER<br>SD809 |             | BORING<br><b>B-02</b>                                                                                                                                                                                                                                                            |             |                                                                                                                                                                                                                                                                                                 |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |             |            |                                                            |             | START<br>4/1/2024        |              | FINISH<br>4/1/2024      |             | SHEET NO.<br>2 of 3                                                                                                                                                                                                                                                              |             |                                                                                                                                                                                                                                                                                                 |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |             |            | DRILLING METHOD<br>Hollow Stem Auger                       |             |                          |              | LOGGED BY<br>JWJ        |             | CHECKED BY<br>MAF                                                                                                                                                                                                                                                                |             |                                                                                                                                                                                                                                                                                                 |  |
| DRILLING EQUIPMENT<br>CME 85 Truck Mounted Rig #120                                                  |                  |             |            | BORING DIA. (in)<br>8                                      |             | TOTAL DEPTH (ft)<br>51.5 |              | GROUND ELEV (ft)<br>798 |             | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ 36.0 / 762.0                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                 |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |             |            | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |             |                          |              |                         |             |                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                                                                                                 |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN)                      | BLOW/FT "N" | N <sub>60</sub>          | MOISTURE (%) | DRY DENSITY (pcf)       | OTHER TESTS | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                                                                                                                  |  |
|                                                                                                      |                  |             | S-6        | 4<br>4<br>6                                                | 10          | 13                       |              |                         |             |                                                                                                                                                                                                                                                                                  |             | <b>YOUNG ALLUVIUM:</b> SANDY LEAN CLAY (CL); very stiff; dark yellowish brown (10YR 3/6); moist; mostly fines; little fine SAND; medium plasticity.<br><br>PP ~ 3 TSF                                                                                                                           |  |
| 30                                                                                                   | 770              |             | R-7        | 8<br>17<br>22                                              | 39          | 35                       | 11.0         | 123                     |             | 30                                                                                                                                                                                                                                                                               |             | <b>OLD ALLUVIUM:</b> CLAYEY SAND (SC); dense; dark yellowish brown (10YR 4/4); moist; mostly fine to coarse SAND; some fines; trace GRAVEL; medium plasticity.                                                                                                                                  |  |
| 35                                                                                                   | 765              |             | S-8        | 4<br>8<br>14                                               | 22          | 29                       |              |                         |             | 35                                                                                                                                                                                                                                                                               |             | CLAYEY SAND (SC); medium dense to dense; dark yellowish brown (10YR 4/4); saturated; mostly fine to coarse SAND; some fines; trace GRAVEL; medium plasticity.                                                                                                                                   |  |
| 40                                                                                                   | 760              |             | R-9        | 15<br>24<br>30                                             | 54          | 48                       | 12.6         | 119                     |             | 40                                                                                                                                                                                                                                                                               |             | SILTY SAND (SM); dense; dark yellowish brown (10YR 4/6); saturated; mostly fine to medium SAND; some fines; trace fine GRAVEL; nonplastic.                                                                                                                                                      |  |
| 45                                                                                                   | 755              |             | R-10       |                                                            |             | ---                      |              |                         |             | 45                                                                                                                                                                                                                                                                               |             | SANDY LEAN CLAY (CL); stiff; dark yellowish brown (10YR 3/6); saturated; mostly fines; little fine SAND; medium plasticity.                                                                                                                                                                     |  |
|                                                                                                      | 750              |             |            |                                                            |             |                          |              |                         |             |                                                                                                                                                                                                                                                                                  |             | WELL-GRADED SAND WITH SILT (SW-SM); dense; very pale brown (10YR 8/4) to brownish yellow (10YR 6/6), saturated; mostly fine to coarse SAND; few GRAVEL; trace fines; nonplastic; micaceous.<br><br>Samples highly disturbed by rapid groundwater flow into the bottom of the hollow-stem auger. |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                                            |             |                          |              |                         |             | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |             | <b>FIGURE</b><br><br>A-7 b                                                                                                                                                                                                                                                                      |  |

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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                   |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809                                                           |                                                                                                                                                                                                                                                                                                        | BORING<br><b>B-02</b>                          |                            |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | START<br>4/1/2024                                                                                                                                                                                                                                                                |                                                                                   | FINISH<br>4/1/2024                                                                                                                                                                                                                                                                                     |                                                | SHEET NO.<br>3 of 3        |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                   |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ                                                                  |                                                                                                                                                                                                                                                                                                        | CHECKED BY<br>MAF                              |                            |  |
| DRILLING EQUIPMENT<br>CME 85 Truck Mounted Rig #120                                                  |                  |                                                                                   |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>51.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>798                                                           |                                                                                                                                                                                                                                                                                                        | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ 36.0 / 762.0 |                            |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                   |            |                                       |             |                 | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                       | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                       | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                                                                                                                         |                                                |                            |  |
|                                                                                                      |                  |  | S-11       |                                       |             | ---             |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |  | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND (SW); dense; light yellowish brown (10YR 6/4); saturated; mostly fine to medium SAND; few fines; nonplastic.<br><br>Total Depth: 51½ Feet<br>Groundwater Depth: 36 Feet<br><br>Groundwater initially observed at 46 feet when the bottom of the borehole heaved. |                                                |                            |  |
| 745                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 55                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 55                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 740                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 60                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 60                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 735                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 65                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 65                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 730                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 70                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 70                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| 725                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                |                            |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                   |                                                                                                                                                                                                                                                                                                        |                                                | <b>FIGURE</b><br><br>A-7 c |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809 |                                                                                     | BORING<br><b>B-03</b>                                                                                                                                                                                        |                                        |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                     |            |                                       |             |                 |                                                            |                   | START<br>4/2/2024                                                                                                                                                                                                                                                                |                         | FINISH<br>4/2/2024                                                                  |                                                                                                                                                                                                              | SHEET NO.<br>1 of 2                    |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                     |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ        |                                                                                     | CHECKED BY<br>MAF                                                                                                                                                                                            |                                        |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                     |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>36.5                                                                                                                                                                                                                                                         |                         | GROUND ELEV (ft)<br>798                                                             |                                                                                                                                                                                                              | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                     |            |                                       |             |                 | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS                                                                                                                                                                                                                                                                      | DEPTH (feet)            | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                               |                                        |  |
|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     | <b>PAVEMENT:</b> 2-inches Asphalt Concrete.                                                                                                                                                                  |                                        |  |
| 5                                                                                                    | 795              |    | B-1        |                                       |             |                 |                                                            |                   | PA<br>EI<br>CR                                                                                                                                                                                                                                                                   | 5                       |    | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; trace GRAVEL; nonplastic; micaceous.<br><br>(4% Gravel; 49% Sand; 47% Fines) |                                        |  |
|                                                                                                      |                  |    | R-2        | 6<br>11<br>13                         | 24          | 21              | 3.1                                                        | 104               |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
|                                                                                                      | 790              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
| 10                                                                                                   |                  |  | S-3        | 4<br>6<br>6                           | 12          | 16              |                                                            |                   |                                                                                                                                                                                                                                                                                  | 10                      |  | <b>YOUNG ALLUVIUM:</b> SILTY SAND (SM); medium dense; yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little fines; nonplastic.                                                               |                                        |  |
|                                                                                                      | 785              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
| 15                                                                                                   |                  |  | R-4        | 5<br>11<br>12                         | 23          | 20              | 4.2                                                        | 106               |                                                                                                                                                                                                                                                                                  | 15                      |  | WELL-GRADED SAND WITH SILT (SW-SM); medium dense; very pale brown (10 YR 7/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; few fines; trace GRAVEL; nonplastic; micaceous.              |                                        |  |
|                                                                                                      | 780              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
| 20                                                                                                   |                  |  | S-5        | 6<br>8<br>7                           | 15          | 20              |                                                            |                   |                                                                                                                                                                                                                                                                                  | 20                      |  | Few GRAVEL.                                                                                                                                                                                                  |                                        |  |
|                                                                                                      | 775              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                                              |                                        |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                       |             |                 |                                                            |                   | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                         |                                                                                     |                                                                                                                                                                                                              | <b>FIGURE</b><br><br>A-8 a             |  |



GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                          |                                        |  |
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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                                                                                     | BORING<br><b>B-03</b>                                                                                                                                                                                    |                                        |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                     |            |                                       |             |                 |                                                            |                   | START<br>4/2/2024        |                                                                                                                                                                                                                                                                                  | FINISH<br>4/2/2024                                                                  |                                                                                                                                                                                                          | SHEET NO.<br>2 of 2                    |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                     |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          | LOGGED BY<br>JWJ                                                                                                                                                                                                                                                                 |                                                                                     | CHECKED BY<br>MAF                                                                                                                                                                                        |                                        |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                     |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>36.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>798                                                             |                                                                                                                                                                                                          | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                     |            |                                       |             |                 | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                          |                                        |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                           |                                        |  |
|                                                                                                      |                  |    | R-6        | 11<br>30<br>40                        | 70          | 62              | 6.2                                                        | 114               |                          |                                                                                                                                                                                                                                                                                  |    | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND WITH SILT (SW-SM); very dense; very pale brown (10YR 7/3) to dark yellowish brown (10YR 4/6); moist; mostly fine to coarse SAND; few fines; nonplastic; micaceous. |                                        |  |
| 30                                                                                                   | 770              |    | S-7        | 7<br>12<br>14                         | 26          | 35              |                                                            |                   |                          | 30                                                                                                                                                                                                                                                                               |    | CLAYEY SAND (SC); dense; dark yellowish brown (10YR 4/6); moist; mostly fine to medium SAND; some fines; trace GRAVEL; low plasticity; micaceous.                                                        |                                        |  |
| 35                                                                                                   | 765              |  | R-8        | 11<br>19<br>36                        | 55          | 49              | 11.6                                                       | 122               |                          | 35                                                                                                                                                                                                                                                                               |  | WELL-GRADED SAND WITH SILT (SW-SM); dense; yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little fines; trace GRAVEL; nonplastic; micaceous                                              |                                        |  |
|                                                                                                      | 760              |                                                                                     |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     | Total Depth: 36½ Feet<br>Groundwater Not Encountered                                                                                                                                                     |                                        |  |
| 40                                                                                                   |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          | 40                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                          |                                        |  |
|                                                                                                      | 755              |                                                                                     |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                          |                                        |  |
| 45                                                                                                   |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          | 45                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                          |                                        |  |
|                                                                                                      | 750              |                                                                                     |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                          |                                        |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                     |                                                                                                                                                                                                          | <b>FIGURE</b><br><br>A-8 b             |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |             |            |                                       |             |                                                            |                                              |                        |                  |                                                                                                                                                                                                                                                                                  |                   |                                                                                                                                                                               |                            |  |
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| <b>BORING RECORD</b>                                                                                 |                  |             |            |                                       |             |                                                            | PROJECT NAME<br>Riverside Community Hospital |                        |                  | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                   | BORING<br><b>B-04</b>                                                                                                                                                         |                            |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |             |            |                                       |             |                                                            |                                              | START<br>4/4/2024      |                  | FINISH<br>4/4/2024                                                                                                                                                                                                                                                               |                   | SHEET NO.<br>1 of 2                                                                                                                                                           |                            |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |             |            |                                       |             | DRILLING METHOD<br>Hollow Stem Auger                       |                                              |                        | LOGGED BY<br>JWJ |                                                                                                                                                                                                                                                                                  | CHECKED BY<br>MAF |                                                                                                                                                                               |                            |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |             |            |                                       |             | BORING DIA. (in)<br>8                                      |                                              | TOTAL DEPTH (ft)<br>31 |                  | GROUND ELEV (ft)<br>794                                                                                                                                                                                                                                                          |                   | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na                                                                                                                                        |                            |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |             |            |                                       |             | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                                              |                        |                  |                                                                                                                                                                                                                                                                                  |                   |                                                                                                                                                                               |                            |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub>                                            | MOISTURE (%)                                 | DRY DENSITY (pcf)      | OTHER TESTS      | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG       | DESCRIPTION AND CLASSIFICATION                                                                                                                                                |                            |  |
|                                                                                                      |                  |             | B-1        |                                       |             |                                                            |                                              |                        |                  |                                                                                                                                                                                                                                                                                  |                   | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to coarse SAND; some fines; nonplastic.                              |                            |  |
| 5                                                                                                    | 790              |             | R-2        | 3<br>4<br>4                           | 8           | 7                                                          | 9.4                                          | 112                    | PA<br>DS         | 5                                                                                                                                                                                                                                                                                |                   | <b>YOUNG ALLUVIUM:</b> SILTY SAND (SM); loose; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; nonplastic.<br><br>(0% Gravel; 65% Sand; 35% Fines) |                            |  |
| 10                                                                                                   | 785              |             | S-3        | 2<br>2<br>2                           | 4           | 5                                                          |                                              |                        |                  | 10                                                                                                                                                                                                                                                                               |                   | CLAYEY SAND (SC); loose; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; nonplastic.                                                          |                            |  |
| 15                                                                                                   | 780              |             | R-4        | 5<br>9<br>11                          | 20          | 16                                                         | 2.6                                          | 111                    |                  | 15                                                                                                                                                                                                                                                                               |                   | WELL-GRADED SAND WITH SILT (SW-SM); medium dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; few fines; trace fine GRAVEL; nonplastic.                    |                            |  |
| 20                                                                                                   | 775              |             | S-5        | 14<br>27<br>43                        | 70          | 86                                                         |                                              |                        |                  | 20                                                                                                                                                                                                                                                                               |                   | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND WITH GRAVEL (SW); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; little GRAVEL; few fines; nonplastic; micaceous.       |                            |  |
|                                                                                                      | 770              |             |            |                                       |             |                                                            |                                              |                        |                  |                                                                                                                                                                                                                                                                                  |                   |                                                                                                                                                                               |                            |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                       |             |                                                            |                                              |                        |                  | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                   |                                                                                                                                                                               | <b>FIGURE</b><br><br>A-9 a |  |

|                                                                      |  |                  |  |                                                                                   |  |            |  |                                                                   |  |             |  |                               |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
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| <b>BORING RECORD</b>                                                 |  |                  |  | <b>PROJECT NAME</b><br>Riverside Community Hospital                               |  |            |  | <b>PROJECT NUMBER</b><br>SD809                                    |  |             |  | <b>BORING</b><br><b>B-04</b>  |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| <b>SITE LOCATION</b><br>Proposed Parking Garage and Tower Sites      |  |                  |  |                                                                                   |  |            |  | <b>START</b><br>4/4/2024                                          |  |             |  | <b>FINISH</b><br>4/4/2024     |  |              |  | <b>SHEET NO.</b><br>2 of 2     |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| <b>DRILLING COMPANY</b><br>Yellow Jacket Drilling                    |  |                  |  |                                                                                   |  |            |  | <b>DRILLING METHOD</b><br>Hollow Stem Auger                       |  |             |  |                               |  |              |  | <b>LOGGED BY</b><br>JWJ        |  |             |  | <b>CHECKED BY</b><br>MAF                      |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| <b>DRILLING EQUIPMENT</b><br>CME 75 Limited Access Rig #142          |  |                  |  |                                                                                   |  |            |  | <b>BORING DIA. (in)</b><br>8                                      |  |             |  | <b>TOTAL DEPTH (ft)</b><br>31 |  |              |  | <b>GROUND ELEV (ft)</b><br>794 |  |             |  | <b>DEPTH/ELEV. GROUNDWATER (ft)</b><br>▼ / na |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| <b>SAMPLING METHOD</b><br>Hammer: 140 lbs., Drop: 30 in. (Automatic) |  |                  |  |                                                                                   |  |            |  | <b>NOTES</b><br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |  |             |  |                               |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| DEPTH (feet)                                                         |  | ELEVATION (feet) |  | SAMPLE TYPE                                                                       |  | SAMPLE NO. |  | PENETRATION RESISTANCE (BLOWS / 6 IN)                             |  | BLOW/FT "N" |  | N <sub>60</sub>               |  | MOISTURE (%) |  | DRY DENSITY (pcf)              |  | OTHER TESTS |  | DEPTH (feet)                                  |  | GRAPHIC LOG                                                                       |  | DESCRIPTION AND CLASSIFICATION                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| 30                                                                   |  | 765              |  |  |  | R-6        |  | 40<br>50<br>(4")                                                  |  | 100+        |  | 100+                          |  |              |  |                                |  |             |  | 30                                            |  |  |  | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND WITH GRAVEL (SW); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; little GRAVEL; few fines; nonplastic; micaceous. |  |  |  |  |  |  |  |  |  |
| 35                                                                   |  | 760              |  |  |  | S-7        |  | 16<br>50                                                          |  | 76          |  | 93                            |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  | Total Depth: 31 Feet<br>Groundwater Not Encountered                                                                                                                     |  |  |  |  |  |  |  |  |  |
| 40                                                                   |  | 755              |  |                                                                                   |  |            |  |                                                                   |  |             |  |                               |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| 45                                                                   |  | 750              |  |                                                                                   |  |            |  |                                                                   |  |             |  |                               |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| 745                                                                  |  |                  |  |                                                                                   |  |            |  |                                                                   |  |             |  |                               |  |              |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |

GROUP DELTA CONSULTANTS, INC.

9245 Activity Road, Suite 103

San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE

A-9 b

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                               |                                        |                             |  |
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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809                                                             |                                                                                                                                                                                               | BORING<br><b>B-05</b>                  |                             |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          | START<br>4/4/2024                                                                                                                                                                                                                                                                |                                                                                     | FINISH<br>4/4/2024                                                                                                                                                                            |                                        | SHEET NO.<br>1 of 2         |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                     |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ                                                                    |                                                                                                                                                                                               | CHECKED BY<br>MAF                      |                             |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                     |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>31.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>796                                                             |                                                                                                                                                                                               | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                             |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                     |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                               |                                        |                             |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                |                                        |                             |  |
|                                                                                                      | 795              |    | B-1        |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |    | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; nonplastic. Contains trash and demolition debris.        |                                        |                             |  |
| 5                                                                                                    | 790              |    | R-2        | 1<br>2<br>4                           | 6           | 5               | 12.6                                                       | 106               | PA                       | 5                                                                                                                                                                                                                                                                                |    | <b>YOUNG ALLUVIUM:</b> SANDY SILT (ML); loose; dark yellowish brown (10YR 4/6); moist; mostly fines; some fine to medium SAND; nonplastic; micaceous.<br><br>(0% Gravel; 33% Sand; 67% Fines) |                                        |                             |  |
| 10                                                                                                   | 785              |  | S-3        | 6<br>7<br>10                          | 17          | 21              |                                                            |                   |                          | 10                                                                                                                                                                                                                                                                               |  | CLAYEY SAND (SC); medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; low plasticity; micaceous.                                                    |                                        |                             |  |
| 15                                                                                                   | 780              |  | R-4        | 10<br>32<br>60                        | 92          | 75              | 6.5                                                        | 127               |                          | 15                                                                                                                                                                                                                                                                               |  | <b>OLD ALLUVIUM:</b> CLAYEY SAND WITH GRAVEL (SC); very dense; yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; some fines; little GRAVEL; nonplastic; micaceous.               |                                        |                             |  |
| 20                                                                                                   | 775              |  | S-5        | 10<br>13<br>20                        | 33          | 41              |                                                            |                   |                          | 20                                                                                                                                                                                                                                                                               |  | WELL-GRADED SAND WITH CLAY (SW-SC); dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/8); moist; mostly fine to coarse SAND; little fines; few GRAVEL; nonplastic; micaceous.      |                                        |                             |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                     |                                                                                                                                                                                               |                                        | <b>FIGURE</b><br><br>A-10 a |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                            |                                        |                             |  |
|------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|------------|---------------------------------------|-------------|-----------------|------------------------------------------------------------|-------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |                                                                                   |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809                                                           |                                                                                                                                                                                                            | BORING<br><b>B-05</b>                  |                             |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | START<br>4/4/2024                                                                                                                                                                                                                                                                |                                                                                   | FINISH<br>4/4/2024                                                                                                                                                                                         |                                        | SHEET NO.<br>2 of 2         |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                   |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ                                                                  |                                                                                                                                                                                                            | CHECKED BY<br>MAF                      |                             |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                   |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>31.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>796                                                           |                                                                                                                                                                                                            | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                             |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                   |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                            |                                        |                             |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                       | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                       | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                             |                                        |                             |  |
|                                                                                                      | 770              |  | R-6        | 9<br>17<br>22                         | 39          | 32              | 13.5                                                       | 109               |                          |                                                                                                                                                                                                                                                                                  |  | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND WITH GRAVEL (SW); dense; very pale brown (10YR 8/2) to yellowish brown (10YR 5/4); moist; mostly fine to medium SAND; some GRAVEL; few fines; nonplastic; micaceous. |                                        |                             |  |
| 30                                                                                                   | 765              |  | S-7        | 10<br>27<br>50                        | 77          | 95              |                                                            |                   |                          | 30                                                                                                                                                                                                                                                                               |  | Very pale brown (10YR 8/3) to light yellowish brown (10YR 6/4); very dense.                                                                                                                                |                                        |                             |  |
| 35                                                                                                   | 760              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 35                                                                                                                                                                                                                                                                               |                                                                                   | Total Depth: 31½ Feet<br>Groundwater Not Encountered                                                                                                                                                       |                                        |                             |  |
| 40                                                                                                   | 755              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 40                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                            |                                        |                             |  |
| 45                                                                                                   | 750              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 45                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                            |                                        |                             |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                   |                                                                                                                                                                                                            |                                        | <b>FIGURE</b><br><br>A-10 b |  |

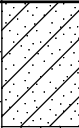


| <b>BORING RECORD</b>                                                                          |                  |             |            |                                       |                                                            | PROJECT NAME<br>Riverside Community Hospital |                          |                   |                         | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                                        | BORING<br><b>B-06</b>                                                                                                                                                                                                               |                      |  |
|-----------------------------------------------------------------------------------------------|------------------|-------------|------------|---------------------------------------|------------------------------------------------------------|----------------------------------------------|--------------------------|-------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                      |                  |             |            |                                       |                                                            |                                              | START<br>4/3/2024        |                   | FINISH<br>4/4/2024      |                                                                                                                                                                                                                                                                                  | SHEET NO.<br>1 of 2                    |                                                                                                                                                                                                                                     |                      |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                    |                  |             |            |                                       | DRILLING METHOD<br>Hollow Stem Auger                       |                                              |                          |                   | LOGGED BY<br>JWJ        |                                                                                                                                                                                                                                                                                  | CHECKED BY<br>MAF                      |                                                                                                                                                                                                                                     |                      |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                          |                  |             |            |                                       | BORING DIA. (in)<br>8                                      |                                              | TOTAL DEPTH (ft)<br>31.5 |                   | GROUND ELEV (ft)<br>794 |                                                                                                                                                                                                                                                                                  | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                                                                                                                                                                                                                                     |                      |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                 |                  |             |            |                                       | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                                              |                          |                   |                         |                                                                                                                                                                                                                                                                                  |                                        |                                                                                                                                                                                                                                     |                      |  |
| DEPTH (feet)                                                                                  | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N"                                                | N <sub>60</sub>                              | MOISTURE (%)             | DRY DENSITY (pcf) | OTHER TESTS             | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                            | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                                                      |                      |  |
|                                                                                               |                  |             |            |                                       |                                                            |                                              |                          |                   |                         |                                                                                                                                                                                                                                                                                  |                                        | <b>PAVEMENT:</b> 4-inches Portland Cement Concrete.                                                                                                                                                                                 |                      |  |
| 5                                                                                             | 790              | X           | B-1        | 2<br>2<br>2                           | 4                                                          | 5                                            |                          |                   | PA<br>EI<br>CR<br>R     | 5                                                                                                                                                                                                                                                                                |                                        | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 3/6); moist; mostly fines; some fine to medium SAND; nonplastic; micaceous.                                                                         |                      |  |
|                                                                                               |                  | X           | S-2        |                                       |                                                            |                                              |                          |                   |                         |                                                                                                                                                                                                                                                                                  |                                        | <b>YOUNG ALLUVIUM:</b> CLAYEY SAND (SC); loose; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; low plasticity. Sample has the odor of decaying vegetation.<br><br>(0% Gravel; 55% Sand; 45% Fines) |                      |  |
| 10                                                                                            | 785              | X           | R-3        | 10<br>24<br>36                        | 60                                                         | 49                                           | 13.1                     | 114               |                         | 10                                                                                                                                                                                                                                                                               |                                        | WELL-GRADED SAND (SW); dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little GRAVEL; trace fines; nonplastic.                                                                  |                      |  |
| 15                                                                                            | 780              | X           | S-4        | 12<br>26<br>30                        | 56                                                         | 69                                           |                          |                   |                         | 15                                                                                                                                                                                                                                                                               |                                        | <b>OLD ALLUVIUM:</b> SILTY SAND WITH GRAVEL (SM); very dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; little GRAVEL; nonplastic.                                                                 |                      |  |
|                                                                                               |                  | X           | B-5        |                                       |                                                            |                                              |                          |                   |                         |                                                                                                                                                                                                                                                                                  |                                        |                                                                                                                                                                                                                                     |                      |  |
| 20                                                                                            | 775              | X           | R-6        | 26<br>50<br>(5")                      | 100+                                                       | 100+                                         |                          |                   |                         | 20                                                                                                                                                                                                                                                                               |                                        | WELL-GRADED SAND WITH SILT (SW-SM); very dense; very pale brown (10YR 8/3) to brownish yellow (10YR 6/8); moist; mostly fine to coarse SAND; few fines; few GRAVEL; nonplastic; micaceous.                                          |                      |  |
|                                                                                               |                  | X           |            |                                       |                                                            |                                              |                          |                   |                         |                                                                                                                                                                                                                                                                                  |                                        |                                                                                                                                                                                                                                     |                      |  |
|                                                                                               | 770              |             |            |                                       |                                                            |                                              |                          |                   |                         |                                                                                                                                                                                                                                                                                  |                                        |                                                                                                                                                                                                                                     |                      |  |
| GROUP DELTA CONSULTANTS, INC.<br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                       |                                                            |                                              |                          |                   |                         | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                        |                                                                                                                                                                                                                                     | FIGURE<br><br>A-11 a |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                     |                                        |                             |  |
|------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|------------|---------------------------------------|-------------|-----------------|------------------------------------------------------------|-------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |                                                                                   |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809                                                           |                                                                                                                                                                     | BORING<br><b>B-06</b>                  |                             |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | START<br>4/3/2024                                                                                                                                                                                                                                                                |                                                                                   | FINISH<br>4/4/2024                                                                                                                                                  |                                        | SHEET NO.<br>2 of 2         |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                   |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ                                                                  |                                                                                                                                                                     | CHECKED BY<br>MAF                      |                             |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                   |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>31.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>794                                                           |                                                                                                                                                                     | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                             |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                   |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                     |                                        |                             |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                       | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                       | DESCRIPTION AND CLASSIFICATION                                                                                                                                      |                                        |                             |  |
| 30                                                                                                   | 765              |  | S-7        | 7<br>25<br>25                         | 50          | 62              |                                                            |                   |                          | 30                                                                                                                                                                                                                                                                               |  | <b>OLD ALLUVIUM:</b> SILTY SAND WITH GRAVEL (SM); very dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; little GRAVEL; nonplastic. |                                        |                             |  |
| 35                                                                                                   | 760              |  | B-8        |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   | Total Depth: 31½ Feet<br>Groundwater Not Encountered                                                                                                                |                                        |                             |  |
| 40                                                                                                   | 755              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                     |                                        |                             |  |
| 45                                                                                                   | 750              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                     |                                        |                             |  |
|                                                                                                      | 745              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                     |                                        |                             |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                   |                                                                                                                                                                     |                                        | <b>FIGURE</b><br><br>A-11 b |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |                                                                                     |                                                                   |             |                               |              |                                |             |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |                                                                                     | <b>PROJECT NAME</b><br>Riverside Community Hospital               |             |                               |              | <b>PROJECT NUMBER</b><br>SD809 |             | <b>BORING</b><br><b>B-07</b>                                                                                                                                                                                                                                                     |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| <b>SITE LOCATION</b><br>Proposed Parking Garage and Tower Sites                                      |                  |                                                                                     |                                                                                     |                                                                   |             | <b>START</b><br>4/4/2024      |              | <b>FINISH</b><br>4/4/2024      |             | <b>SHEET NO.</b><br>1 of 2                                                                                                                                                                                                                                                       |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| <b>DRILLING COMPANY</b><br>Yellow Jacket Drilling                                                    |                  |                                                                                     |                                                                                     | <b>DRILLING METHOD</b><br>Hollow Stem Auger                       |             |                               |              | <b>LOGGED BY</b><br>JWJ        |             | <b>CHECKED BY</b><br>MAF                                                                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| <b>DRILLING EQUIPMENT</b><br>CME 75 Limited Access Rig #142                                          |                  |                                                                                     |                                                                                     | <b>BORING DIA. (in)</b><br>8                                      |             | <b>TOTAL DEPTH (ft)</b><br>28 |              | <b>GROUND ELEV (ft)</b><br>794 |             | <b>DEPTH/ELEV. GROUNDWATER (ft)</b><br>▼ / na                                                                                                                                                                                                                                    |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| <b>SAMPLING METHOD</b><br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                 |                  |                                                                                     |                                                                                     | <b>NOTES</b><br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |             |                               |              |                                |             |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO.                                                                          | PENETRATION RESISTANCE (BLOWS / 6 IN)                             | BLOW/FT "N" | N <sub>60</sub>               | MOISTURE (%) | DRY DENSITY (pcf)              | OTHER TESTS | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                       |                                                                                                                                                                                      |
| 5                                                                                                    | 790              |    | B-1                                                                                 |                                                                   |             |                               |              |                                |             |                                                                                                                                                                                                                                                                                  |    | <b>FILL:</b> CLAYEY SAND (SC); loose to medium dense; dark yellowish brown (10YR 3/6); moist to wet; mostly fine to medium SAND; some fines; little GRAVEL; low plasticity.                          |                                                                                                                                                                                      |
|                                                                                                      |                  |    | S-2                                                                                 | 2<br>3<br>5                                                       | 8           | 10                            |              |                                |             | 5                                                                                                                                                                                                                                                                                |   | <b>YOUNG ALLUVIUM:</b> SILTY SAND (SM); loose to medium dense; yellowish brown (10YR 4/6); moist; mostly fine SAND; some fines; micaceous; nonplastic.                                               |                                                                                                                                                                                      |
|                                                                                                      |                  |                                                                                     |                                                                                     |                                                                   |             |                               |              |                                |             |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
|                                                                                                      | 10               | 785                                                                                 |  | R-3                                                               | 2<br>4<br>5 | 9                             | 7            | 15.7                           | 113         | PA                                                                                                                                                                                                                                                                               | 10                                                                                  |                                                                                                                   | SANDY SILT (ML); loose; dark yellowish brown (10YR 4/6); moist; mostly fines; some fine to medium SAND; trace GRAVEL; nonplastic; micaceous.<br><br>(1% Gravel; 39% Sand; 60% Fines) |
|                                                                                                      |                  |                                                                                     |                                                                                     |                                                                   |             |                               |              |                                |             |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| 15                                                                                                   | 780              |  | S-4                                                                                 | 3<br>7<br>15                                                      | 22          | 27                            |              |                                |             | 15                                                                                                                                                                                                                                                                               |  | WELL-GRADED SAND WITH SILT (SW-SM); medium dense; very pale brown (10YR 7/3) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; trace fines; trace GRAVEL; nonplastic.                |                                                                                                                                                                                      |
| 20                                                                                                   | 775              |  | R-5                                                                                 | 16<br>34<br>50                                                    | 84          | 69                            | 5.6          | 116                            |             | 20                                                                                                                                                                                                                                                                               |  | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND (SW); very dense; very pale brown (10YR 8/3) to brownish yellow (10YR 6/8); moist; mostly fine to coarse SAND; few GRAVEL; trace fines; nonplastic; micaceous. |                                                                                                                                                                                      |
|                                                                                                      | 770              |                                                                                     |                                                                                     |                                                                   |             |                               |              |                                |             |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                                      |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |                                                                                     |                                                                   |             |                               |              |                                |             | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                     | <b>FIGURE</b><br><br>A-12 a                                                                                                                                                                          |                                                                                                                                                                                      |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |             |            |                                       |             |                 |                                                            |                   |                        |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                      |                                        |                             |  |
|------------------------------------------------------------------------------------------------------|------------------|-------------|------------|---------------------------------------|-------------|-----------------|------------------------------------------------------------|-------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |             |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                        |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809 |                                                                                                                                                                                                      | BORING<br><b>B-07</b>                  |                             |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |             |            |                                       |             |                 |                                                            |                   |                        | START<br>4/4/2024                                                                                                                                                                                                                                                                |                         | FINISH<br>4/4/2024                                                                                                                                                                                   |                                        | SHEET NO.<br>2 of 2         |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |             |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                        |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ        |                                                                                                                                                                                                      | CHECKED BY<br>MAF                      |                             |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |             |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>28 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>794 |                                                                                                                                                                                                      | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                             |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |             |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                        |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                      |                                        |                             |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS            | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG             | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                       |                                        |                             |  |
|                                                                                                      |                  |             | S-6        | 21<br>29<br>20                        | 49          | 60              |                                                            |                   |                        |                                                                                                                                                                                                                                                                                  |                         | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND (SW); very dense; very pale brown (10YR 8/3) to brownish yellow (10YR 6/8); moist; mostly fine to coarse SAND; few GRAVEL; trace fines; nonplastic; micaceous. |                                        |                             |  |
| 30                                                                                                   | 765              |             |            |                                       |             |                 |                                                            |                   |                        | 30                                                                                                                                                                                                                                                                               |                         | Total Depth: 28 Feet<br>Groundwater Not Encountered                                                                                                                                                  |                                        |                             |  |
| 35                                                                                                   | 760              |             |            |                                       |             |                 |                                                            |                   |                        | 35                                                                                                                                                                                                                                                                               |                         |                                                                                                                                                                                                      |                                        |                             |  |
| 40                                                                                                   | 755              |             |            |                                       |             |                 |                                                            |                   |                        | 40                                                                                                                                                                                                                                                                               |                         |                                                                                                                                                                                                      |                                        |                             |  |
| 45                                                                                                   | 750              |             |            |                                       |             |                 |                                                            |                   |                        | 45                                                                                                                                                                                                                                                                               |                         |                                                                                                                                                                                                      |                                        |                             |  |
|                                                                                                      | 745              |             |            |                                       |             |                 |                                                            |                   |                        |                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                      |                                        |                             |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                       |             |                 |                                                            |                   |                        | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                         |                                                                                                                                                                                                      |                                        | <b>FIGURE</b><br><br>A-12 b |  |

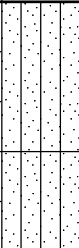
GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            | <b>PROJECT NAME</b><br>Riverside Community Hospital |             |                                                                   |              | <b>PROJECT NUMBER</b><br>SD809 |                     |                                                                                                                                                                                                                                                                                  |                                                                                     | <b>BORING</b><br><b>B-08</b>                                                                                                                                                                                      |  |                             |  |
| <b>SITE LOCATION</b><br>Proposed Parking Garage and Tower Sites                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              | <b>START</b><br>4/1/2024       |                     | <b>FINISH</b><br>4/1/2024                                                                                                                                                                                                                                                        |                                                                                     | <b>SHEET NO.</b><br>1 of 2                                                                                                                                                                                        |  |                             |  |
| <b>DRILLING COMPANY</b><br>Yellow Jacket Drilling                                                    |                  |                                                                                     |            |                                                     |             | <b>DRILLING METHOD</b><br>Hollow Stem Auger                       |              |                                |                     | <b>LOGGED BY</b><br>JWJ                                                                                                                                                                                                                                                          |                                                                                     | <b>CHECKED BY</b><br>MAF                                                                                                                                                                                          |  |                             |  |
| <b>DRILLING EQUIPMENT</b><br>CME 75 Limited Access Rig #142                                          |                  |                                                                                     |            |                                                     |             | <b>BORING DIA. (in)</b><br>8                                      |              | <b>TOTAL DEPTH (ft)</b><br>30  |                     | <b>GROUND ELEV (ft)</b><br>794                                                                                                                                                                                                                                                   |                                                                                     | <b>DEPTH/ELEV. GROUNDWATER (ft)</b><br>▼ / na                                                                                                                                                                     |  |                             |  |
| <b>SAMPLING METHOD</b><br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                 |                  |                                                                                     |            |                                                     |             | <b>NOTES</b><br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN)               | BLOW/FT "N" | N <sub>60</sub>                                                   | MOISTURE (%) | DRY DENSITY (pcf)              | OTHER TESTS         | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                                    |  |                             |  |
| 5                                                                                                    | 790              |    | B-1        |                                                     |             |                                                                   |              |                                | PA<br>EI<br>CR<br>R | 5                                                                                                                                                                                                                                                                                |    | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; brown (10YR 4/3); moist; mostly fine to coarse SAND; some fines; little GRAVEL; nonplastic; micaceous.<br><br>(14% Gravel; 44% Sand; 42% Fines)              |  |                             |  |
|                                                                                                      |                  |    | S-2        | 2<br>4<br>4                                         | 8           | 11                                                                |              |                                |                     | 5                                                                                                                                                                                                                                                                                |    | <b>YOUNG ALLUVIUM:</b> POORLY-GRADED SAND WITH SILT (SP-SM); medium dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; few fines; trace GRAVEL; nonplastic; micaceous.                         |  |                             |  |
|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
| 10                                                                                                   | 785              |  | R-3        | 3<br>4<br>7                                         | 11          | 10                                                                | 7.2          | 116                            |                     | 10                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                   |  |                             |  |
|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
|                                                                                                      | 780              |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
| 15                                                                                                   |                  |  | S-4        | 19<br>50<br>(5")                                    | 79          | 100+                                                              |              |                                |                     | 15                                                                                                                                                                                                                                                                               |  | <b>OLD ALLUVIUM:</b> WELL-GRADED SAND WITH SILT (SW-SM); very dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; few fines; trace GRAVEL; nonplastic; micaceous. |  |                             |  |
|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
|                                                                                                      | 775              |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
| 20                                                                                                   |                  |  | R-5        | 15<br>35<br>50                                      | 85          | 75                                                                | 5.3          | 107                            |                     | 20                                                                                                                                                                                                                                                                               |  | <b>WELL-GRADED SAND (SW);</b> very dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little GRAVEL; trace fines; nonplastic; micaceous.                         |  |                             |  |
|                                                                                                      |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
|                                                                                                      | 770              |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                   |  |                             |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                                     |             |                                                                   |              |                                |                     | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                     |                                                                                                                                                                                                                   |  | <b>FIGURE</b><br><br>A-13 a |  |



|                                                                                                      |  |                  |  |                                                     |  |                  |  |                                                                   |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
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| <b>BORING RECORD</b>                                                                                 |  |                  |  | <b>PROJECT NAME</b><br>Riverside Community Hospital |  |                  |  | <b>PROJECT NUMBER</b><br>SD809                                    |  |             |  | <b>BORING</b><br><b>B-08</b>  |  |                                                                                                                                                                                                                                                                                  |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <b>SITE LOCATION</b><br>Proposed Parking Garage and Tower Sites                                      |  |                  |  |                                                     |  |                  |  | <b>START</b><br>4/1/2024                                          |  |             |  | <b>FINISH</b><br>4/1/2024     |  |                                                                                                                                                                                                                                                                                  |  | <b>SHEET NO.</b><br>2 of 2     |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <b>DRILLING COMPANY</b><br>Yellow Jacket Drilling                                                    |  |                  |  |                                                     |  |                  |  | <b>DRILLING METHOD</b><br>Hollow Stem Auger                       |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  | <b>LOGGED BY</b><br>JWJ        |  |             |  | <b>CHECKED BY</b><br>MAF                      |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <b>DRILLING EQUIPMENT</b><br>CME 75 Limited Access Rig #142                                          |  |                  |  |                                                     |  |                  |  | <b>BORING DIA. (in)</b><br>8                                      |  |             |  | <b>TOTAL DEPTH (ft)</b><br>30 |  |                                                                                                                                                                                                                                                                                  |  | <b>GROUND ELEV (ft)</b><br>794 |  |             |  | <b>DEPTH/ELEV. GROUNDWATER (ft)</b><br>▼ / na |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <b>SAMPLING METHOD</b><br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                 |  |                  |  |                                                     |  |                  |  | <b>NOTES</b><br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| DEPTH (feet)                                                                                         |  | ELEVATION (feet) |  | SAMPLE TYPE                                         |  | SAMPLE NO.       |  | PENETRATION RESISTANCE (BLOWS / 6 IN)                             |  | BLOW/FT "N" |  | N <sub>60</sub>               |  | MOISTURE (%)                                                                                                                                                                                                                                                                     |  | DRY DENSITY (pcf)              |  | OTHER TESTS |  | DEPTH (feet)                                  |  | GRAPHIC LOG                                                                       |  | DESCRIPTION AND CLASSIFICATION                                                                                                                                                               |  |  |  |  |  |  |  |  |  |
| 30                                                                                                   |  | 765              |  | R-6                                                 |  | 24<br>50         |  | 74                                                                |  | 66          |  | 3.2                           |  | 112                                                                                                                                                                                                                                                                              |  | 30                             |  | 30          |  | 30                                            |  |  |  | <b>OLD ALLUVIUM:</b> WELL-GRADED GRAVEL WITH SAND (GW); very dense; white (10YR 8/8) to very pale brown (10YR 7/4); moist; mostly GRAVEL; some fine to coarse SAND; trace fines; nonplastic. |  |  |  |  |  |  |  |  |  |
|                                                                                                      |  | 765              |  | S-7                                                 |  | 22<br>50<br>(5") |  | 82                                                                |  | 100+        |  |                               |  |                                                                                                                                                                                                                                                                                  |  |                                |  |             |  |                                               |  |                                                                                   |  | Total Depth: 30 Feet<br>Groundwater Not Encountered                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| 35                                                                                                   |  | 760              |  |                                                     |  |                  |  |                                                                   |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  | 35                             |  |             |  | 35                                            |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| 40                                                                                                   |  | 755              |  |                                                     |  |                  |  |                                                                   |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  | 40                             |  |             |  | 40                                            |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| 45                                                                                                   |  | 750              |  |                                                     |  |                  |  |                                                                   |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  | 45                             |  |             |  | 45                                            |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                                                      |  | 745              |  |                                                     |  |                  |  |                                                                   |  |             |  |                               |  |                                                                                                                                                                                                                                                                                  |  |                                |  |             |  |                                               |  |                                                                                   |  |                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |  |                  |  |                                                     |  |                  |  |                                                                   |  |             |  |                               |  | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |  |                                |  |             |  |                                               |  |                                                                                   |  | <b>FIGURE</b><br><br>A-13 b                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |

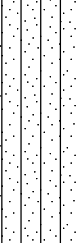
GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                            |                                        |  |
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| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                                                                                                                                                                                                                                                                                  | PROJECT NUMBER<br>SD809 |                                                                                     | BORING<br><b>B-09</b>                                                                                                                                                                      |                                        |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                     |            |                                       |             |                 |                                                            |                   | START<br>4/5/2024                                                                                                                                                                                                                                                                |                         | FINISH<br>4/5/2024                                                                  |                                                                                                                                                                                            | SHEET NO.<br>1 of 2                    |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                     |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                                                                                                                                                                                                                                                                                  | LOGGED BY<br>JWJ        |                                                                                     | CHECKED BY<br>MAF                                                                                                                                                                          |                                        |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                     |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>31.5                                                                                                                                                                                                                                                         |                         | GROUND ELEV (ft)<br>832                                                             |                                                                                                                                                                                            | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                     |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                            |                                        |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS                                                                                                                                                                                                                                                                      | DEPTH (feet)            | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                             |                                        |  |
|                                                                                                      | 830              |    | B-1        |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |    | <b>FILL:</b> SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL and COBBLE; nonplastic. Some tree roots. |                                        |  |
| 5                                                                                                    |                  |    | R-2        | 4<br>7<br>7                           | 14          | 11              | 10.1                                                       | 113               |                                                                                                                                                                                                                                                                                  | 5                       |    | <b>YOUNG ALLUVIUM:</b> SILTY SAND (SM); medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL and COBBLE; nonplastic                  |                                        |  |
|                                                                                                      | 825              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                            |                                        |  |
| 10                                                                                                   |                  |  | S-3        | 2<br>2<br>2                           | 4           | 5               |                                                            |                   | PA                                                                                                                                                                                                                                                                               | 10                      |  | SANDY SILT (ML); loose; strong brown (10YR 5/6); moist; mostly fines; some fine SAND; micaceous; nonplastic.<br><br>(0% Gravel; 31% Sand; 69% Fines)                                       |                                        |  |
|                                                                                                      | 820              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                            |                                        |  |
| 15                                                                                                   |                  |  | R-4        | 11<br>12<br>14                        | 26          | 21              | 6.5                                                        | 101               |                                                                                                                                                                                                                                                                                  | 15                      |  | SILTY SAND (SM); medium dense; strong brown (10YR 5/6); moist; mostly fines; little fine SAND; nonplastic.                                                                                 |                                        |  |
|                                                                                                      | 815              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                            |                                        |  |
| 20                                                                                                   |                  |  | S-5        | 9<br>13<br>26                         | 39          | 48              |                                                            |                   |                                                                                                                                                                                                                                                                                  | 20                      |  | <b>OLD ALLUVIUM:</b> SILTY SAND (SM); dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; nonplastic.                                                   |                                        |  |
|                                                                                                      | 810              |                                                                                     |            |                                       |             |                 |                                                            |                   |                                                                                                                                                                                                                                                                                  |                         |                                                                                     |                                                                                                                                                                                            |                                        |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                       |             |                 |                                                            |                   | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                         |                                                                                     |                                                                                                                                                                                            | FIGURE<br><br>A-14 a                   |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
|------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|------------|---------------------------------------|-------------|-----------------|------------------------------------------------------------|-------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |                                                                                   |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                                                                                   | BORING<br><b>B-09</b>                                                                                                                                                  |                                        |                             |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                   |            |                                       |             |                 |                                                            |                   | START<br>4/5/2024        |                                                                                                                                                                                                                                                                                  | FINISH<br>4/5/2024                                                                |                                                                                                                                                                        | SHEET NO.<br>2 of 2                    |                             |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                   |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          | LOGGED BY<br>JWJ                                                                                                                                                                                                                                                                 |                                                                                   | CHECKED BY<br>MAF                                                                                                                                                      |                                        |                             |  |
| DRILLING EQUIPMENT<br>CME 75 Limited Access Rig #142                                                 |                  |                                                                                   |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>31.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>832                                                           |                                                                                                                                                                        | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                             |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                   |            |                                       |             |                 | NOTES<br>ETR ~ 74%, N <sub>60</sub> ~ 74/60 * N ~ 1.23 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                       | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                       | DESCRIPTION AND CLASSIFICATION                                                                                                                                         |                                        |                             |  |
|                                                                                                      | 805              |  | R-6        | 8<br>14<br>22                         | 36          | 30              | 2.5                                                        | 114               |                          |                                                                                                                                                                                                                                                                                  |  | <b>OLD ALLUVIUM:</b> POORLY-GRADED SAND WITH SILT (SP-SM); dense; brownish yellow (10YR 6/8); moist; mostly fine to medium SAND; little GRAVEL; few fines; nonplastic. |                                        |                             |  |
| 30                                                                                                   |                  |  | S-7        | 7<br>12<br>16                         | 28          | 34              |                                                            |                   |                          | 30                                                                                                                                                                                                                                                                               |  | Grades from very pale brown (10YR 7/4) to yellowish brown (10YR 5/6); micaceous; trace GRAVEL.                                                                         |                                        |                             |  |
|                                                                                                      | 800              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   | Total Depth: 31½ Feet<br>Groundwater Not Encountered                                                                                                                   |                                        |                             |  |
| 35                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 35                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
|                                                                                                      | 795              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
| 40                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 40                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
|                                                                                                      | 790              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
| 45                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 45                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
|                                                                                                      | 785              |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                        |                                        |                             |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                   |                                                                                                                                                                        |                                        | <b>FIGURE</b><br><br>A-14 b |  |

GDC\_LOG\_BORING\_MMXX\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
|------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------|---------------------------------------|-------------|-----------------|-------------------------------------------------------------------|-------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |                                                                                     |            |                                       |             |                 | <b>PROJECT NAME</b><br>Riverside Community Hospital               |                   |                                 |                                                                                                                                                                                                                                                                                  | <b>PROJECT NUMBER</b><br>SD809                                                      |                                                                                                                                                                                           | <b>BORING</b><br><b>B-10</b>                  |                            |  |
| <b>SITE LOCATION</b><br>Proposed Parking Garage and Tower Sites                                      |                  |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 | <b>START</b><br>4/2/2024                                                                                                                                                                                                                                                         |                                                                                     | <b>FINISH</b><br>4/2/2024                                                                                                                                                                 |                                               | <b>SHEET NO.</b><br>1 of 3 |  |
| <b>DRILLING COMPANY</b><br>Yellow Jacket Drilling                                                    |                  |                                                                                     |            |                                       |             |                 | <b>DRILLING METHOD</b><br>Hollow Stem Auger                       |                   |                                 |                                                                                                                                                                                                                                                                                  | <b>LOGGED BY</b><br>JWJ                                                             |                                                                                                                                                                                           | <b>CHECKED BY</b><br>MAF                      |                            |  |
| <b>DRILLING EQUIPMENT</b><br>CME 85 Truck Mounted Rig #120                                           |                  |                                                                                     |            |                                       |             |                 | <b>BORING DIA. (in)</b><br>8                                      |                   | <b>TOTAL DEPTH (ft)</b><br>51.5 |                                                                                                                                                                                                                                                                                  | <b>GROUND ELEV (ft)</b><br>838                                                      |                                                                                                                                                                                           | <b>DEPTH/ELEV. GROUNDWATER (ft)</b><br>▼ / na |                            |  |
| <b>SAMPLING METHOD</b><br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                 |                  |                                                                                     |            |                                       |             |                 | <b>NOTES</b><br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                         | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                                      | DRY DENSITY (pcf) | OTHER TESTS                     | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                         | DESCRIPTION AND CLASSIFICATION                                                                                                                                                            |                                               |                            |  |
|                                                                                                      |                  |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     | <b>PAVEMENT:</b> 8-inches of Asphalt Concrete over 6-inches of Aggregate Base.                                                                                                            |                                               |                            |  |
| 5                                                                                                    | 835              |    | B-1        |                                       |             |                 |                                                                   |                   | PA<br>EI<br>CR                  | 5                                                                                                                                                                                                                                                                                |    | <b>FILL:</b> SANDY SILT (ML); medium dense; yellowish brown (10YR 5/6); moist; mostly fines; some fine to medium SAND; low plasticity; micaceous.<br><br>(0% Gravel; 33% Sand; 67% Fines) |                                               |                            |  |
|                                                                                                      |                  |    | S-2        | 8<br>9<br>9                           | 18          | 24              |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
|                                                                                                      | 830              |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
| 10                                                                                                   |                  |  | R-3        | 8<br>14<br>20                         | 34          | 30              | 5.8                                                               | 99                | DS                              | 10                                                                                                                                                                                                                                                                               |  | SILTY SAND (SM); dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; low plasticity; micaceous.                                                             |                                               |                            |  |
|                                                                                                      | 825              |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
| 15                                                                                                   |                  |  | S-4        | 8<br>9<br>11                          | 20          | 27              |                                                                   |                   |                                 | 15                                                                                                                                                                                                                                                                               |  | SANDY SILT (ML); medium dense to dense; brownish yellow (10YR 6/8); moist; mostly fines; little fine to medium SAND; low plasticity; micaceous.                                           |                                               |                            |  |
|                                                                                                      | 820              |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
| 20                                                                                                   |                  |  | R-5        | 7<br>13<br>24                         | 37          | 33              | 11.2                                                              | 99                | DS                              | 20                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                           |                                               |                            |  |
|                                                                                                      | 815              |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                           |                                               |                            |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                     |            |                                       |             |                 |                                                                   |                   |                                 | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                     |                                                                                                                                                                                           | <b>FIGURE</b><br><br>A-15 a                   |                            |  |

GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |             |            |                                       |                                                            |                 |                                              |                   |                         |                                                                                                                                                                                                                                                                                  |                                        |                                                                                                                                                                          |  |
|------------------------------------------------------------------------------------------------------|------------------|-------------|------------|---------------------------------------|------------------------------------------------------------|-----------------|----------------------------------------------|-------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>BORING RECORD</b>                                                                                 |                  |             |            |                                       |                                                            |                 | PROJECT NAME<br>Riverside Community Hospital |                   |                         | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                                        | BORING<br><b>B-10</b>                                                                                                                                                    |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |             |            |                                       |                                                            |                 | START<br>4/2/2024                            |                   | FINISH<br>4/2/2024      |                                                                                                                                                                                                                                                                                  | SHEET NO.<br>2 of 3                    |                                                                                                                                                                          |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |             |            |                                       | DRILLING METHOD<br>Hollow Stem Auger                       |                 |                                              | LOGGED BY<br>JWJ  |                         | CHECKED BY<br>MAF                                                                                                                                                                                                                                                                |                                        |                                                                                                                                                                          |  |
| DRILLING EQUIPMENT<br>CME 85 Truck Mounted Rig #120                                                  |                  |             |            |                                       | BORING DIA. (in)<br>8                                      |                 | TOTAL DEPTH (ft)<br>51.5                     |                   | GROUND ELEV (ft)<br>838 |                                                                                                                                                                                                                                                                                  | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |                                                                                                                                                                          |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |             |            |                                       | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                 |                                              |                   |                         |                                                                                                                                                                                                                                                                                  |                                        |                                                                                                                                                                          |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N"                                                | N <sub>60</sub> | MOISTURE (%)                                 | DRY DENSITY (pcf) | OTHER TESTS             | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                            | DESCRIPTION AND CLASSIFICATION                                                                                                                                           |  |
|                                                                                                      |                  |             | S-6        | 5<br>9<br>12                          | 21                                                         | 28              |                                              |                   |                         |                                                                                                                                                                                                                                                                                  |                                        | <b>FILL:</b> SANDY SILT (ML); medium dense; light yellowish brown (10YR 4/4); moist; mostly fines; little fine SAND; nonplastic.                                         |  |
| 30                                                                                                   | 810              |             | R-7        | 7<br>30<br>50                         | 80                                                         | 71              | 7.5                                          | 113               |                         | 30                                                                                                                                                                                                                                                                               |                                        | <b>OLD ALLUVIUM:</b> SILTY SAND WITH GRAVEL (SM); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; some fines; little GRAVEL; nonplastic; micaceous.       |  |
| 35                                                                                                   | 805              |             |            |                                       |                                                            |                 |                                              |                   |                         |                                                                                                                                                                                                                                                                                  |                                        | SILTY SAND (SM); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; some fines; few GRAVEL; nonplastic; micaceous.                                           |  |
| 40                                                                                                   | 800              |             | S-8        | 8<br>17<br>18                         | 35                                                         | 47              |                                              |                   |                         | 35                                                                                                                                                                                                                                                                               |                                        | SILTY SAND WITH GRAVEL (SM); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; some fines; little GRAVEL; nonplastic; micaceous.                            |  |
| 45                                                                                                   | 795              |             | R-9        | 15<br>30<br>42                        | 72                                                         | 64              | 5.6                                          | 115               |                         | 40                                                                                                                                                                                                                                                                               |                                        | SANDY SILT (ML); medium dense; light yellowish brown (10YR 4/4); moist; mostly fines; little fine SAND; nonplastic; mildly cemented.                                     |  |
|                                                                                                      | 790              |             | S-10       | 10<br>27<br>33                        | 60                                                         | 80              |                                              |                   |                         | 45                                                                                                                                                                                                                                                                               |                                        | SILTY SAND (SM); very dense; very pale brown (10YR 7/4) to brownish yellow (10YR 6/6), moist; mostly fine to medium SAND; some fines; few GRAVEL; nonplastic; micaceous. |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |             |            |                                       |                                                            |                 |                                              |                   |                         | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                        | FIGURE<br><br>A-15 b                                                                                                                                                     |  |



GDC\_LOG\_BORING\_MMXX\_SOIL\_SD\_SD809\_LOGS.GPJ GDCLOG.GDT 4/19/24

|                                                                                                      |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
|------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|------------|---------------------------------------|-------------|-----------------|------------------------------------------------------------|-------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--|--|
| <b>BORING RECORD</b>                                                                                 |                  |                                                                                   |            |                                       |             |                 | PROJECT NAME<br>Riverside Community Hospital               |                   |                          | PROJECT NUMBER<br>SD809                                                                                                                                                                                                                                                          |                                                                                   | BORING<br><b>B-10</b>                                                                                                                                                                                                                                                    |                                        |  |  |
| SITE LOCATION<br>Proposed Parking Garage and Tower Sites                                             |                  |                                                                                   |            |                                       |             |                 |                                                            |                   | START<br>4/2/2024        |                                                                                                                                                                                                                                                                                  | FINISH<br>4/2/2024                                                                |                                                                                                                                                                                                                                                                          | SHEET NO.<br>3 of 3                    |  |  |
| DRILLING COMPANY<br>Yellow Jacket Drilling                                                           |                  |                                                                                   |            |                                       |             |                 | DRILLING METHOD<br>Hollow Stem Auger                       |                   |                          | LOGGED BY<br>JWJ                                                                                                                                                                                                                                                                 |                                                                                   | CHECKED BY<br>MAF                                                                                                                                                                                                                                                        |                                        |  |  |
| DRILLING EQUIPMENT<br>CME 85 Truck Mounted Rig #120                                                  |                  |                                                                                   |            |                                       |             |                 | BORING DIA. (in)<br>8                                      |                   | TOTAL DEPTH (ft)<br>51.5 |                                                                                                                                                                                                                                                                                  | GROUND ELEV (ft)<br>838                                                           |                                                                                                                                                                                                                                                                          | DEPTH/ELEV. GROUNDWATER (ft)<br>▼ / na |  |  |
| SAMPLING METHOD<br>Hammer: 140 lbs., Drop: 30 in. (Automatic)                                        |                  |                                                                                   |            |                                       |             |                 | NOTES<br>ETR ~ 80%, N <sub>60</sub> ~ 80/60 * N ~ 1.33 * N |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| DEPTH (feet)                                                                                         | ELEVATION (feet) | SAMPLE TYPE                                                                       | SAMPLE NO. | PENETRATION RESISTANCE (BLOWS / 6 IN) | BLOW/FT "N" | N <sub>60</sub> | MOISTURE (%)                                               | DRY DENSITY (pcf) | OTHER TESTS              | DEPTH (feet)                                                                                                                                                                                                                                                                     | GRAPHIC LOG                                                                       | DESCRIPTION AND CLASSIFICATION                                                                                                                                                                                                                                           |                                        |  |  |
|                                                                                                      |                  |  | R-11       | 17<br>27<br>50                        | 87          | 77              | 2.0                                                        | ---               |                          |                                                                                                                                                                                                                                                                                  |  | <b>OLD ALLUVIUM:</b> POORLY-GRADED SAND WITH SILT (SP-SM); very dense; very pale brown (10YR 8/3) to light yellowish brown (10YR 6/4); moist; mostly fine to medium SAND; few fines; few GRAVEL; nonplastic.<br><br>Total Depth: 51½ Feet<br>Groundwater Not Encountered |                                        |  |  |
| 785                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 55                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 55                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 780                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 60                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 60                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 775                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 65                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 65                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 770                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | 70                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 70                                                                                                   |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| 765                                                                                                  |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          |                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                                                                          |                                        |  |  |
| <b>GROUP DELTA CONSULTANTS, INC.</b><br>9245 Activity Road, Suite 103<br>San Diego, California 92126 |                  |                                                                                   |            |                                       |             |                 |                                                            |                   |                          | THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. |                                                                                   |                                                                                                                                                                                                                                                                          | FIGURE<br><br>A-15 c                   |  |  |

***APPENDIX A1***  
***PREVIOUS EXPLORATIONS (2007 to 2013)***

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# EXPLORATORY BORING NO. 1

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 799.0

Logged by: VJR

Measured Depth to Water(ft): 39.0

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                    | REMARKS | SAMPLES |      | BLOWS/6 IN. | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|--------------------------------------------------------------------------|---------|---------|------|-------------|--------------------|--------------------|-----------------|
|            |             |                                                                          |         | DRIVE   | BULK |             |                    |                    |                 |
|            |             | (SM) Silty Sand, fine to coarse with gravel to 1", brown                 | Fill    |         |      |             | 14.8               |                    |                 |
|            |             |                                                                          |         | X       |      | 8           | 13.4               | 120                | Ring            |
|            |             |                                                                          |         |         |      | 14          |                    |                    |                 |
|            |             |                                                                          |         |         |      | 19          |                    |                    |                 |
| 5          |             | (ML) Sandy Silt, fine with medium, light brown                           | Native  |         |      |             |                    |                    | SA              |
|            |             |                                                                          |         | X       |      | 3           | 6.7                | 101                | Ring, Consol.   |
|            |             |                                                                          |         |         |      | 4           |                    |                    |                 |
|            |             |                                                                          |         |         |      | 5           |                    |                    |                 |
| 10         |             |                                                                          |         | X       |      | 4           | 11.5               | 120                | Ring, DS        |
|            |             |                                                                          |         |         |      | 7           |                    |                    |                 |
|            |             |                                                                          |         |         |      | 9           |                    |                    |                 |
|            |             | (SP-SM) Sand, medium to coarse with fine and silt, brown                 |         |         |      |             | 2.3                |                    |                 |
|            |             |                                                                          |         | X       |      | 7           | 2.3                | 114                | Ring            |
|            |             |                                                                          |         |         |      | 12          |                    |                    |                 |
|            |             |                                                                          |         |         |      | 18          |                    |                    |                 |
| 15         |             | (SW-SM) Sand with silt, fine to coarse with clay and gravel to 3", brown |         |         |      |             | 5.3                |                    | SA              |
|            |             |                                                                          |         | X       |      | 38          | 3.6                | 117                | Ring            |
|            |             |                                                                          |         |         |      | 50/5"       |                    |                    |                 |
| 20         |             |                                                                          |         | X       |      | 40          | 4.1                | 105                | Ring, DS        |
|            |             |                                                                          |         |         |      | 50/5"       |                    |                    |                 |
| 25         |             |                                                                          |         | X       |      | 50/4"       | 3.5                | 104                | Ring            |
|            |             |                                                                          |         |         |      |             |                    |                    |                 |
| 30         |             | (SP) Sand, medium to coarse with fine, gravel and cobbles to 4", brown   |         |         |      |             |                    |                    |                 |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-1a

# EXPLORATORY BORING NO. 1

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 799.0

Logged by: VJR

Measured Depth to Water(ft): 39.0

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                                   | REMARKS     | SAMPLES |      | BLOWS/6 IN. | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|-----------------------------------------------------------------------------------------|-------------|---------|------|-------------|--------------------|--------------------|-----------------|
|            |             |                                                                                         |             | DRIVE   | BULK |             |                    |                    |                 |
|            |             | (SP) Sand, medium to coarse with fine, gravel and cobbles to 4", brown                  |             |         |      | 50/4"       | 6.0                | 111                | Ring            |
| 40         |             |                                                                                         | Groundwater |         |      | 50/4"       | 17.2               | Dist.              | Ring            |
| 45         |             |                                                                                         |             |         |      | 21<br>50/5" | 10.5               | 123                | Ring, DS        |
| 50         |             |                                                                                         |             |         |      | 50          | 11.8               | 128                | Ring            |
| 55         |             |                                                                                         |             |         |      | 50          | 12.4               | 125                | Ring            |
| 60         |             |                                                                                         |             |         |      | 50/4"       | 15.4               | 123                | Ring            |
| 65         |             | NO BEDROCK<br>REFUSAL AT 70.0'<br>FILL TO 4.0'<br>SLIGHT CAVING<br>GROUNDWATER AT 39.0' |             |         |      | 50/4"       | 9.6                | 134                | Ring            |
|            |             | END OF BORING                                                                           |             |         |      | 50/1"       | N R                | N R                | Ring            |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-1b

## EXPLORATORY BORING NO. 2

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 800.0

Logged by: VJR

Measured Depth to Water(ft): 36.0

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                     | REMARKS | SAMPLES |      | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|---------------------------------------------------------------------------|---------|---------|------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                                           |         | DRIVE   | BULK |                |                    |                    |                 |
|            |             | (ML) Sandy Silt, fine to medium with coarse and gravel to 1", light brown | Fill    |         |      |                | 7.3                |                    | SA, MDE, SE     |
| 5          |             | (ML) Sandy Silt, fine with medium, light brown                            | Native  |         |      | 5<br>6<br>4    | 7.9                |                    | SPT             |
| 10         |             |                                                                           |         |         |      | 3<br>2<br>2    |                    |                    | SPT             |
| 15         |             | (SP-SM) Sand, medium to coarse with fine, silt and gravel to 1", brown    |         |         |      | 3<br>3<br>5    | 3.3                |                    | SPT             |
| 20         |             | (SP) Sand, medium to coarse with fine and gravel to 1", brown             |         |         |      | 5<br>6<br>6    |                    |                    | SPT             |
| 25         |             |                                                                           |         |         |      | 19<br>24<br>19 |                    |                    | SPT             |
| 30         |             | (SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown      |         |         |      | 41<br>50/5"    |                    |                    | SPT             |
|            |             |                                                                           |         |         |      | 50             |                    |                    | SPT             |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-2a

## EXPLORATORY BORING NO. 2

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 800.0

Logged by: VJR

Measured Depth to Water(ft): 36.0

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                                   | REMARKS       | SAMPLES |      | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|-----------------------------------------------------------------------------------------|---------------|---------|------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                                                         |               | DRIVE   | BULK |                |                    |                    |                 |
|            |             | (SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown                    | ▼ Groundwater |         |      |                |                    |                    |                 |
| 40         |             |                                                                                         |               | X       |      | 19<br>23<br>32 |                    |                    | SPT             |
|            |             |                                                                                         |               | X       |      | 50/5"          |                    |                    | SPT             |
|            |             | END OF BORING                                                                           |               |         |      |                |                    |                    |                 |
| 45         |             | NO BEDROCK<br>REFUSAL AT 43.0'<br>FILL TO 4.0'<br>SLIGHT CAVING<br>GROUNDWATER AT 36.0' |               |         |      |                |                    |                    |                 |
| 50         |             |                                                                                         |               |         |      |                |                    |                    |                 |
| 55         |             |                                                                                         |               |         |      |                |                    |                    |                 |
| 60         |             |                                                                                         |               |         |      |                |                    |                    |                 |
| 65         |             |                                                                                         |               |         |      |                |                    |                    |                 |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE Job No. 07881-3  
RIVERSIDE, CALIFORNIA

Enclosure  
B-2b



# EXPLORATORY BORING NO. 6

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 839.0

Logged by: JMZ

Measured Depth to Water(ft): 76.7

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                              | REMARKS | SAMPLES |      | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|----------------------------------------------------|---------|---------|------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                    |         | DRIVE   | BULK |                |                    |                    |                 |
|            |             | Asphalt                                            |         |         |      |                |                    |                    |                 |
|            |             | Base                                               | Fill    |         |      |                | 7.3                |                    |                 |
|            |             | (SM) Silty Sand, fine with gravel to 3", red brown |         |         |      | 7<br>6<br>12   | 7.8                | 107                | Ring            |
| 5          |             | (SM) Silty Sand, fine, light brown                 | Native  |         |      | 12<br>20<br>31 | 14.1               | 106                | Ring            |
| 10         |             |                                                    |         |         |      |                | 10.8               |                    |                 |
|            |             |                                                    |         |         |      | 9<br>13<br>17  | 10.8               | 120                | Ring            |
| 15         |             |                                                    |         |         |      | 9<br>16<br>39  | 15.0               | 117                | Ring            |
| 20         |             |                                                    |         |         |      | 11<br>13<br>18 | 12.8               | 113                | Ring            |
| 25         |             | (ML) Sandy Silt, fine, brown                       |         |         |      |                | 25.0               |                    |                 |
|            |             |                                                    |         |         |      | 13<br>19<br>23 | 24.4               | 102                | Ring            |
| 30         |             | (ML) Sandy Silt, fine with clay, red brown         |         |         |      |                | 13.6               |                    |                 |
|            |             |                                                    |         |         |      | 13<br>18<br>30 | 13.3               | 122                | Ring            |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-6a

# EXPLORATORY BORING NO. 6

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 839.0

Logged by: JMZ

Measured Depth to Water(ft): 76.7

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                       | REMARKS | SAMPLES |      | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|-----------------------------------------------------------------------------|---------|---------|------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                                             |         | DRIVE   | BULK |                |                    |                    |                 |
|            |             | (SC) Clayey Sand, fine to medium with silt, red brown                       |         |         |      |                | 11.7               |                    | Cor.            |
| 40         |             |                                                                             |         | X       |      | 10<br>18<br>35 | 10.8               | 125                | Ring            |
|            |             | (SM) Silty Sand, fine to medium with coarse and gravel to 3/4", light brown |         |         |      |                | 10.0               |                    |                 |
| 45         |             |                                                                             |         | X       |      | 17<br>30<br>50 | 10.3               | 126                | Ring            |
|            |             | (SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown        |         |         |      |                | 1.8                |                    |                 |
| 50         |             |                                                                             |         | X       |      | 48<br>43<br>41 | 1.8                | Dist.              | Ring            |
|            |             | (SP) Sand, fine to medium with coarse and gravel to 1", light brown         |         |         |      |                |                    |                    |                 |
| 55         |             |                                                                             |         | X       |      | 40<br>50/5"    | N.R.               | N.R.               | Ring            |
|            |             | (SP) Sand, fine to coarse with gravel and cobbles to 4", light brown        |         |         |      |                |                    |                    |                 |
| 60         |             |                                                                             |         | X       |      | 50             | N.R.               | N.R.               | Ring            |
|            |             |                                                                             |         |         |      |                |                    |                    |                 |
| 65         |             |                                                                             |         | X       |      | 50/4"          | 3.0                | 112                | Ring            |
|            |             |                                                                             |         |         |      |                |                    |                    |                 |
|            |             |                                                                             |         | X       |      | 50             | 3.3                | 96                 | Ring            |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE Job No. 07881-3  
RIVERSIDE, CALIFORNIA

Enclosure  
B-6b

## EXPLORATORY BORING NO. 6

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 839.0

Logged by: JMZ

Measured Depth to Water(ft): 76.7

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                                   | REMARKS     | SAMPLES |      | BLOWS/6 IN. | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|-----------------------------------------------------------------------------------------|-------------|---------|------|-------------|--------------------|--------------------|-----------------|
|            |             |                                                                                         |             | DRIVE   | BULK |             |                    |                    |                 |
| 75         |             | (SP) Sand, fine to coarse with gravel and cobbles to 4", light brown                    |             |         |      | 50/4"       | 4.2                | 105                | Ring            |
| 80         |             | (SM) Silty Sand, fine to coarse with clay and gravel 3", brown                          | Groundwater |         |      | 50/5"       | 9.6                | 114                | Ring            |
| 85         |             | END OF BORING                                                                           |             |         |      | 50/2"       | N.R.               | N.R.               | Ring            |
| 90         |             | NO BEDROCK<br>REFUSAL AT 83.0'<br>FILL TO 5.0'<br>SLIGHT CAVING<br>GROUNDWATER AT 76.7' |             |         |      |             |                    |                    |                 |
| 95         |             |                                                                                         |             |         |      |             |                    |                    |                 |
| 100        |             |                                                                                         |             |         |      |             |                    |                    |                 |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE Job No. 07881-3  
RIVERSIDE, CALIFORNIA

Enclosure  
B-6c

# EXPLORATORY BORING NO. 7

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 825.0

Logged by: JMZ

Measured Depth to Water(ft): N.A.

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                | REMARKS | SAMPLES |      | BLOWS/6 IN.   | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|----------------------------------------------------------------------|---------|---------|------|---------------|--------------------|--------------------|-----------------|
|            |             |                                                                      |         | DRIVE   | BULK |               |                    |                    |                 |
|            |             | Asphalt                                                              |         |         |      |               |                    |                    |                 |
|            |             | Base                                                                 | Fill    |         |      |               | 6.5                |                    |                 |
|            |             | (SM) Silty Sand, fine to medium with coarse and gravel to 3", brown  |         |         |      |               |                    |                    |                 |
| 5          |             | (SM) Silty Sand, fine to coarse with gravel to 1", brown             | Native  |         |      |               | 5.8                |                    | Cor.            |
|            |             |                                                                      |         | X       |      | 6<br>8<br>8   |                    |                    | SPT             |
| 10         |             |                                                                      |         | X       |      | 3<br>3<br>3   |                    |                    | SPT             |
| 15         |             |                                                                      |         | X       |      | 2<br>4<br>3   |                    |                    | SPT             |
| 20         |             | (SP-SM) Sand, fine to medium with coarse and silt, light brown       |         | X       |      | 2<br>3<br>5   |                    |                    | SPT             |
| 25         |             | (SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown |         | X       |      | 6<br>8<br>11  |                    |                    | SPT             |
| 30         |             | (SP) Sand, fine to coarse, light brown                               |         | X       |      | 8<br>12<br>19 |                    |                    | SPT             |
|            |             | (SP) Sand, fine to coarse with gravel to 1", light brown             |         |         |      |               |                    |                    |                 |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-7a

# EXPLORATORY BORING NO. 7

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 825.0

Logged by: JMZ

Measured Depth to Water(ft): N.A.

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                            | REMARKS | SAMPLES |      | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|----------------------------------------------------------------------------------|---------|---------|------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                                                  |         | DRIVE   | BULK |                |                    |                    |                 |
|            |             | (SP) Sand, fine to coarse with gravel to 1", light brown                         |         | X       |      | 13<br>26<br>21 |                    |                    | SPT             |
| 40         |             |                                                                                  |         | X       |      | 10<br>15<br>17 |                    |                    | SPT             |
| 45         |             |                                                                                  |         | X       |      | 14<br>50       |                    |                    | SPT             |
| 50         |             |                                                                                  |         | X       |      | 18<br>27<br>29 |                    |                    | SPT             |
|            |             | END OF BORING                                                                    |         |         |      |                |                    |                    |                 |
| 55         |             | NO BEDROCK<br>NO REFUSAL<br>FILL TO 4.0'<br>SLIGHT CAVING<br>NO FREE GROUNDWATER |         |         |      |                |                    |                    |                 |
| 60         |             |                                                                                  |         |         |      |                |                    |                    |                 |
| 65         |             |                                                                                  |         |         |      |                |                    |                    |                 |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-7b

# EXPLORATORY BORING NO. 8

Date Drilled: 12/21/07

Client: Riverside Community Hospital

Equipment: Limited Access Mole Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 810.0

Logged by: TAD

Measured Depth to Water(ft): N.A.

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                              | REMARKS | SAMPLES |                | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|------------------------------------------------------------------------------------|---------|---------|----------------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                                                    |         | DRIVE   | BULK           |                |                    |                    |                 |
| 5          |             | (SM) Silty Sand, fine with clay, dark brown                                        | Fill    |         |                |                | 14.2               |                    |                 |
|            |             |                                                                                    |         |         | 22<br>28<br>30 | 13.4           | 122                | Ring               |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
| 10         |             | (SM) Silty sand, fine with clay, dark brown.                                       | Native  |         |                | 7<br>8<br>8    | 4.8                | 99                 | Ring            |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         | 3<br>3<br>4    | 6.0            | 138                | Ring               |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
| 15         |             | (ML) Sandy Silt, fine with clay, dark brown                                        |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                | 5<br>6<br>7    | N.R.               | N.R.               | Ring            |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
| 20         |             | (ML) Sandy Silt, fine with clay, dark brown                                        |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                | 7<br>8<br>8    | 20.8               | 104                | Ring            |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
| 25         |             | (SP) Sand, fine to coarse with gravel to 3", light brown                           |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                | 10<br>15<br>30 | 1.6                | 114                | Ring            |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
| 30         |             | (SP) Sand, fine to coarse with gravel to 3", light brown                           |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                | 40<br>50       | 4.6                | 113                | Ring            |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             |                                                                                    |         |         |                |                |                    |                    |                 |
|            |             | END OF BORING                                                                      |         |         |                |                |                    |                    |                 |
|            |             | NO BEDROCK, REFUSAL AT 31.0'<br>FILL TO 7.0', SLIGHT CAVING<br>NO FREE GROUNDWATER |         |         |                |                |                    |                    |                 |

ORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No. 07881-3

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# EXPLORATORY BORING NO. 9

Date Drilled: 12/21/07

Client: Riverside Community Hospital

Equipment: Limited Access Mole Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 811.0

Logged by: TAD

Measured Depth to Water(ft): N.A.

| DEPTH (ft) | GRAPHIC LOG | VISUAL CLASSIFICATION                                                                  | REMARKS | SAMPLES |      | BLOWS/6 IN.    | FIELD MOISTURE (%) | DRY UNIT WT. (pcf) | LAB/FIELD TESTS |
|------------|-------------|----------------------------------------------------------------------------------------|---------|---------|------|----------------|--------------------|--------------------|-----------------|
|            |             |                                                                                        |         | DRIVE   | BULK |                |                    |                    |                 |
|            |             | (SM) Silty Sand, fine, medium brown                                                    | Fill    |         |      |                | 8.5                |                    |                 |
| 5          |             | (SM) Silty Sand, fine with clay, dark brown                                            |         | X       |      | 14<br>14<br>15 | 8.7                | 127                | Ring, Pass #200 |
| 10         |             | (ML) Sandy Silt, fine with clay, light brown                                           | Native  | X       |      | 4<br>4<br>5    | 10.7<br>4.9        | 98                 | Ring            |
| 15         |             |                                                                                        |         | X       |      | 2<br>3<br>5    | 7.6                | 101                | Ring, DS        |
| 20         |             |                                                                                        |         | X       |      | 7<br>10<br>11  | 8.2                | 115                | Ring            |
| 25         |             |                                                                                        |         | X       |      | 8<br>10<br>25  | 1.9                | 113                | Ring            |
|            |             | (SP) Sand, fine with medium to coarse, light brown                                     |         | X       |      | 9<br>11<br>29  | 5.3                | 107                | Ring            |
| 30         |             | END OF BORING                                                                          |         |         |      |                |                    |                    |                 |
|            |             | NO BEDROCK<br>REFUSAL AT 29.5'<br>FILL TO 9.0'<br>SLIGHT CAVING<br>NO FREE GROUNDWATER |         |         |      |                |                    |                    |                 |

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08

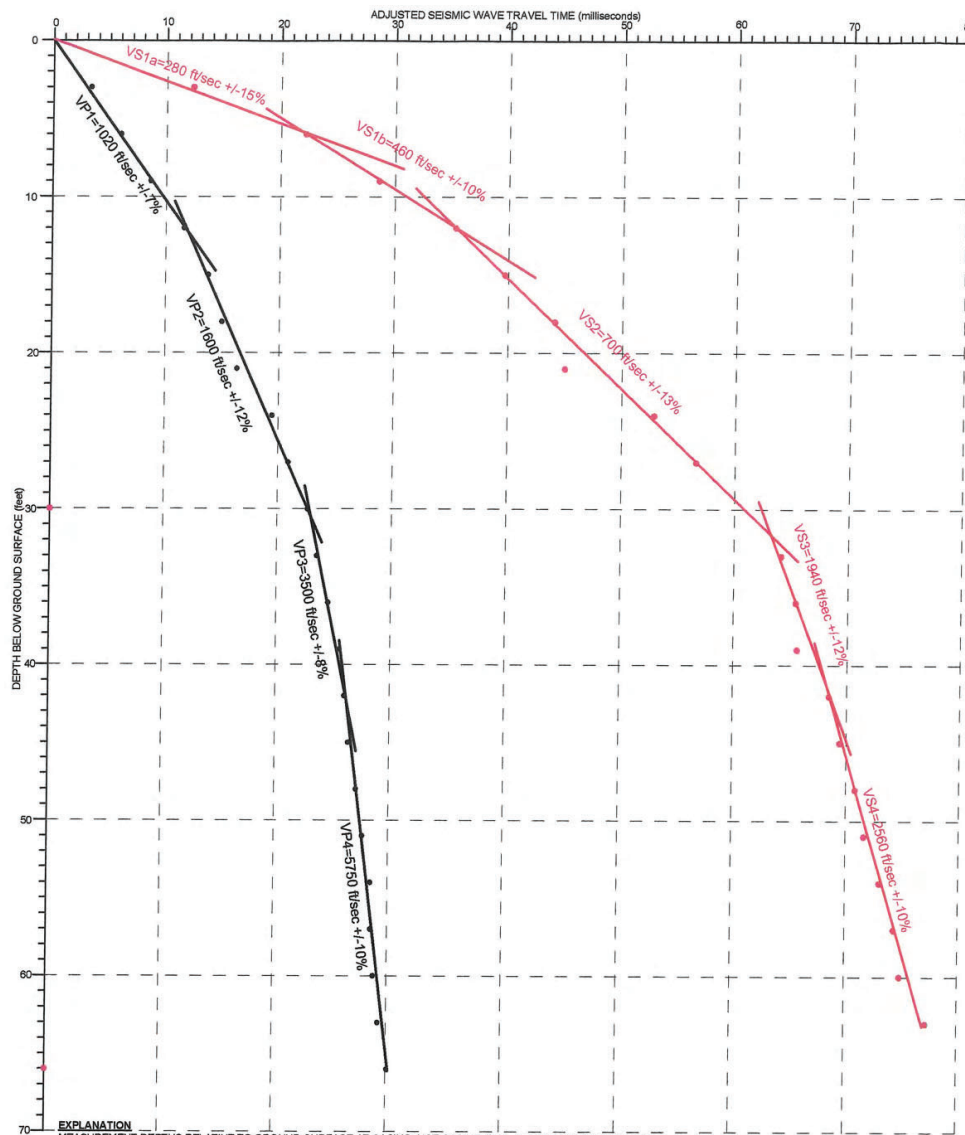


**C.H.J.**

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE  
RIVERSIDE, CALIFORNIA

Job No.  
07881-3

Enclosure  
B-9



**EXPLANATION**  
 MEASUREMENT DEPTHS RELATIVE TO GROUND SURFACE AT CASING, NOT CASING TOP. SEISMIC ENERGY SOURCE OFFSET IS 8.0 feet. ADJUSTED TIME AXIS CALCULATED AS TRAVEL TIME MULTIPLIED BY THE RATIO OF THE MEASUREMENT DEPTH DIVIDED BY SLANT DISTANCE TRAVELED BY THE SEISMIC WAVES SO THE DATA APPEARS AS VERTICALLY INCIDENT.  
 • COMPRESSIONAL WAVE DATA  
 • HORIZONTALLY POLARIZED SHEAR WAVE DATA  
 \ INTERPRETED SEISMIC VELOCITY WITH ESTIMATED UNCERTAINTY

#### CHJ BORING LOG OF 12/20/07

SILTY SAND (SM) WITH GRAVEL FILL  
 DRY UNIT WEIGHT = 120 pcf  
 BLOW COUNTS = 14

SILTY SAND (SM)  
 DRY UNIT WEIGHT = 101-120 pcf  
 BLOW COUNT = 4-7

SAND (SP) WITH GRAVEL  
 DRY UNIT RATE = 104-117 pcf  
 BLOW COUNTS = 12-50

SAND (SP) WITH GRAVEL & COBBLES  
 DRY UNIT RATE = 111-134 pcf  
 BLOW COUNTS = >50

REFUSAL @ 70 feet - NO BEDROCK

#### VELOCITY CORRELATIONS WITH STRATIGRAPHY

| DEPTH RANGE (feet) | COMPRESSIONAL VELOCITY (ft/sec) | SHEAR VELOCITY (ft/sec) | STRATIGRAPHY                                                |
|--------------------|---------------------------------|-------------------------|-------------------------------------------------------------|
| 0 - 12             | 1020 +/- 7%                     | 280 +/- 15%             | SILTY SAND (SM) WITH GRAVEL FILL                            |
| 12 - 31            | 1600 +/- 12%                    | 460 +/- 10%             | SILTY SAND (SM)                                             |
| 31 - 42            | 3500 +/- 10%                    | 700 +/- 13%             | SAND (SP) WITH GRAVEL                                       |
| 42 - 66            | 5750 +/- 10%                    | 1940 +/- 12%            | GROUND WATER @ 39 feet<br>SAND (SP) WITH GRAVEL AND COBBLES |

**FIGURE 2**  
**BORING B1**  
 DOWNHOLE SEISMIC VELOCITY DATA AND INTERPRETED VELOCITY MODEL WITH STRATIGRAPHIC CORRELATIONS

PROPOSED BED TOWER & PARKING GARAGE  
 RIVERSIDE COMMUNITY HOSPITAL  
 TERRA PHYSICS



# C.H.J. Inc

Location Riverside Community Hospital  
Job Number 07881-3  
Hole Number CPT-01  
Water Table Depth

Operator ML/JH  
Cone Number DSG1047  
Date and Time 12/20/2007 8:22:44 AM  
0.00 ft

Filename SDF(502).cpt  
GPS  
Maximum Depth 53.15 ft  
Elevation 838 ft

