



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

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Glendale, California 91201-2837  
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December 7, 2023  
File No. 20489

Aragon (Sunset/Everett) Properties Corp.  
1750 Glendale Boulevard, Suite 102  
Los Angeles, California 90026

Attention: Jeff Farrington

Subject: Supplemental Geotechnical Engineering Investigation  
Proposed Apartment Complex  
1185 West Sunset Boulevard, Los Angeles, California

References: *Reports by Geotechnologies, Inc.:*  
Geotechnical Engineering Investigation, dated April 9, 2013,  
updated June 24, 2014;  
Follow Up to Geotechnical Engineering Investigation, dated March 4, 2014;  
Response to Soils Report Correction Letter, dated May 22, 2014;  
Response to Geotechnical and Engineering Geology Review,  
dated September 10, 2014;  
Response to Geotechnical and Engineering Geology Response to Comments and  
Review, dated May 15, 2017;  
Corrosion Testing Results, dated June 25, 2018;  
Updated Geotechnical Engineering Investigation, dated September 6, 2023;  
Response to City of Los Angeles Review Letter, dated December 7, 2023.

*City of Los Angeles, Department of Building and Safety:*  
Correction Letter, Log #83257, dated March 13, 2014;  
Geology and Soils Report Approval Letter, Log #83257-01, dated June 24, 2014;  
Geology and Soils Report Approval Letter, Log #85606, dated September 23, 2014;  
Geology Soils Report Review Letter, Log # 127750, dated October 17, 2023.

*Communications by Others:*  
Desktop Fault Evaluation, by Lettis Consultants International, Inc.,  
dated May 2, 2017.

Ladies and Gentlemen:

This letter transmits the Supplemental Geotechnical Engineering Investigation for the subject site prepared by Geotechnologies, Inc. This letter provides the findings from drilling additional borings on the site for the purpose of identifying bedrock elevations.

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The validity of the recommendations presented herein is dependent upon review of the geotechnical aspects of the project during construction by this firm. The subsurface conditions described herein have been projected from limited subsurface exploration and laboratory testing. The exploration and testing presented in this report should in no way be construed to reflect any variations which may occur between the exploration locations or which may result from changes in subsurface conditions.

Should you have any questions please contact this office.

Respectfully submitted,  
GEOTECHNOLOGIES, INC.



REINARD T. KNUR  
G.E. 2755/C.E.G. 1547



RTK:km

Distribution: (1) Addressee

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**SUPPLEMENTAL GEOTECHNICAL ENGINEERING INVESTIGATION**  
**PROPOSED APARTMENT COMPLEX**  
**1185 WEST SUNSET BOULEVARD**  
**LOS ANGELES, CALIFORNIA**

**INTRODUCTION**

This letter presents the results of the supplemental geotechnical engineering investigation performed on the subject site. The purpose of this investigation was to provide additional information regarding the distribution and engineering properties of the geologic materials underlying the site.

**PROPOSED DEVELOPMENT**

The site is proposed to be developed with an apartment complex that is seven stories in height with one and two levels of subterranean parking. Retaining walls will be up to 44 feet in height. Column loads are estimated to be between 500 and 900 kips. Wall Loads are estimated to be between 4 and 17 kips per lineal foot. These loads reflect the dead plus live load, of which the dead load is approximately 75 percent. The proposed structure is shown relative site boundaries on the attached Geologic Map.

The lowest finish floor elevations of the structure will range from 418 feet above mean sea level at the north end of the site to 400 feet at the south end. A walkway on the east side of the structure, located at the toe of the westerly descending slope, is at 439.5 feet.

Excavations for the subterranean parking levels at the northeast corner of the structure will be as much as 49 feet from the original grade, including foundation excavations. The basement excavations will be as much as 12 feet below Sunset Boulevard at the northern end of the structure and 8 feet at the southern end of the structure. Up to 10 feet of compacted fill may be necessary to locally raise grades and backfill walls. The highest vertical cut is anticipated to be 44 feet (including foundations) and will be on the north side of the site as shown on Cross Section H-H'.



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A permanent cut is proposed on the east side of the structure that will provide a 15 foot setback between the east side of the structure and the toe of the proposed slope. The slope will be inclined approximately 27 degrees from horizontal and be up to 65 feet high. The top of the slope will require a 10 foot setback from the western and northern property lines. Appropriate terrace drains and downdrains will be required. Due to surface drainage from offsite properties to the subject site, a brow ditch will be required at the top of the slope to intercept the offsite water.

## **GEOTECHNICAL EXPLORATION**

### **FIELD EXPLORATION**

Seven borings were drilled as part of this supplemental Geotechnical Engineering Investigation. Borings B8 through B14 were drilled to depths of 21 ½ to 26 ½ feet with a truck-mounted drilling rig equipped with 8-inch hollowstem augers.

The borings were sampled at regular depth intervals using a California-modified, split-spoon sampler lined with 2.5-inch diameter brass rings. The sampler was advanced using a 140-pound weight dropped from a height of 30 inches with an automatic trip hammer.

The boring locations are shown on the Geologic Map and the logs are attached as Plates A-8 through A-14. The location of the borings was determined by measurement from hardscape features shown on the Geologic Map. Elevations were determined by interpolation from the elevation contours shown on the map. The location and elevation of the exploratory excavations should be considered accurate only to the degree implied by the method used.

### **Geologic Materials**

The geologic materials identified in the borings consist of artificial fill, alluvium, and interbedded siltstone and sandstone bedrock of the Puente Formation. More detailed descriptions of the geologic materials are presented in the following paragraphs. The distribution of the geologic materials can be identified on the Geologic Map and Cross Sections A-A' through H-H'.



## **Fill**

The fill consists of mixtures of clay, silt, sand and gravel that is dark brown, and yellowish brown, medium dense or firm, and moist. The supplemental borings identified fill to a maximum depth of 5 feet. The maximum depth of fill identified previous borings is 7 feet. The deepest fill is encountered along Sunset Boulevard and the southern end of the site.

## **Alluvium**

Alluvium consists of sandy silt and silty clay that is dark brown to medium brown in color, moist to wet, and has some gravel-sized siltstone fragments near the base of the deposit. The thickest colluvium was identified in Boring 10 extending from depth of 4 feet to 20 feet. The thickest alluvium identified in the previous excavations was in Boring 4 (File No 19267) and extended to 16 ½ feet. The alluvium is found primarily on the western part of the site along Sunset Boulevard.

## **Bedrock (Puente Formation)**

The site is underlain by sedimentary bedrock of the Puente Formation. The bedrock consists of well bedded, clayey siltstone and sandstone that is yellow and grayish brown, and brown in color. The bedrock is also moist and moderately hard and moderately weathered to slightly weathered. The greatest depth to bedrock was identified in Boring 10 at a depth of 20 feet. This depth corresponds to an elevation of 395 feet. The attached Bedrock Contour Plan shows the bedrock elevations utilizing the findings from this supplemental investigation and previous work.

## **Groundwater**

Seepage was encountered in Borings B8 through B13 at depths ranging from 9.5 to 12.5 feet below the ground surface. The elevation of the seepage ranges from 395 ½ to 406 ½ feet. In general the



elevation of the seepage descends to the south. Boring B14 drilled to a depth of 21 ½ feet, did not encounter water.

Based on previous work, seepage occurred at depths of 9.3 feet to 24 feet. These depths correspond to elevations of 414.7 and 402.5, respectively.

The historically highest groundwater level at the site is approximately 20 feet below the ground surface. (CDMG, 2006).

### **Caving**

Caving could not be directly observed in the borings due to the continuously cased design of the hollowstem auger drill.

Caving may occur in large diameter borings where water seeps from the alluvium or where the rock is highly fractured.

## **CONCLUSIONS AND RECOMMENDATIONS**

The attached Bedrock Contour Plan was updated based on the findings of this investigation. As a result of the subsurface investigation, the depth to rock was identified to be deeper than reported in the September 6, 2023 investigation in the vicinity of the recently drilled boring B10. The lowest bedrock depth is anticipated in the vicinity of Boring B10, along Sunset Boulevard and opposite Marion Avenue. The bedrock surface may extend as low as elevation 394 feet while the finish floor elevation of the lowest building level in that area is 407.75 feet. A combination of deepened footings and/or friction piles will be necessary for footings to bear in the bedrock in this area.

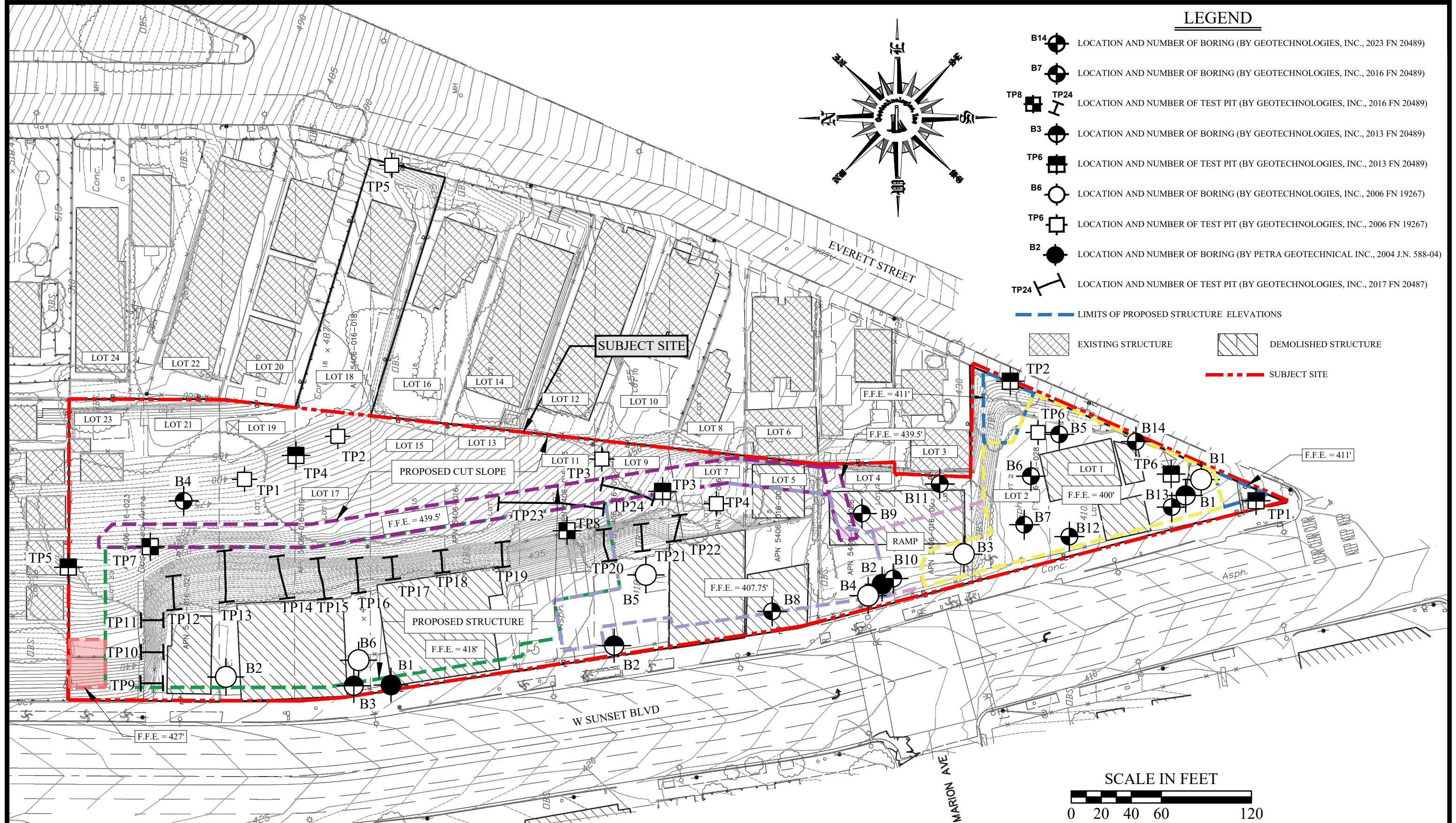


## **CLOSURE AND LIMITATIONS**

The purpose of this report is to aid in the design and completion of the described project. Implementation of the advice presented in this report is intended to reduce certain risks associated with construction projects. The professional opinions and geotechnical advice contained in this report are sought because of special skill in engineering and geology and were prepared in accordance with generally accepted geotechnical engineering practice. Geotechnologies, Inc. has a duty to exercise the ordinary skill and competence of members of the engineering profession. Those who hire Geotechnologies, Inc. are not justified in expecting infallibility, but can expect reasonable professional care and competence.

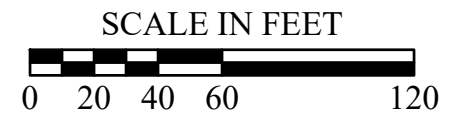






**LEGEND**

- B14 LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2023 FN 20489)
- B7 LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2016 FN 20489)
- TP8 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2016 FN 20489)
- B3 LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2013 FN 20489)
- TP6 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2013 FN 20489)
- B6 LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2006 FN 19267)
- TP6 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2006 FN 19267)
- B2 LOCATION AND NUMBER OF BORING (BY PETRA GEOTECHNICAL INC., 2004 I.N. 588-04)
- TP24 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2017 FN 20487)
- LIMITS OF PROPOSED STRUCTURE ELEVATIONS
- EXISTING STRUCTURE
- DEMOLISHED STRUCTURE
- SUBJECT SITE

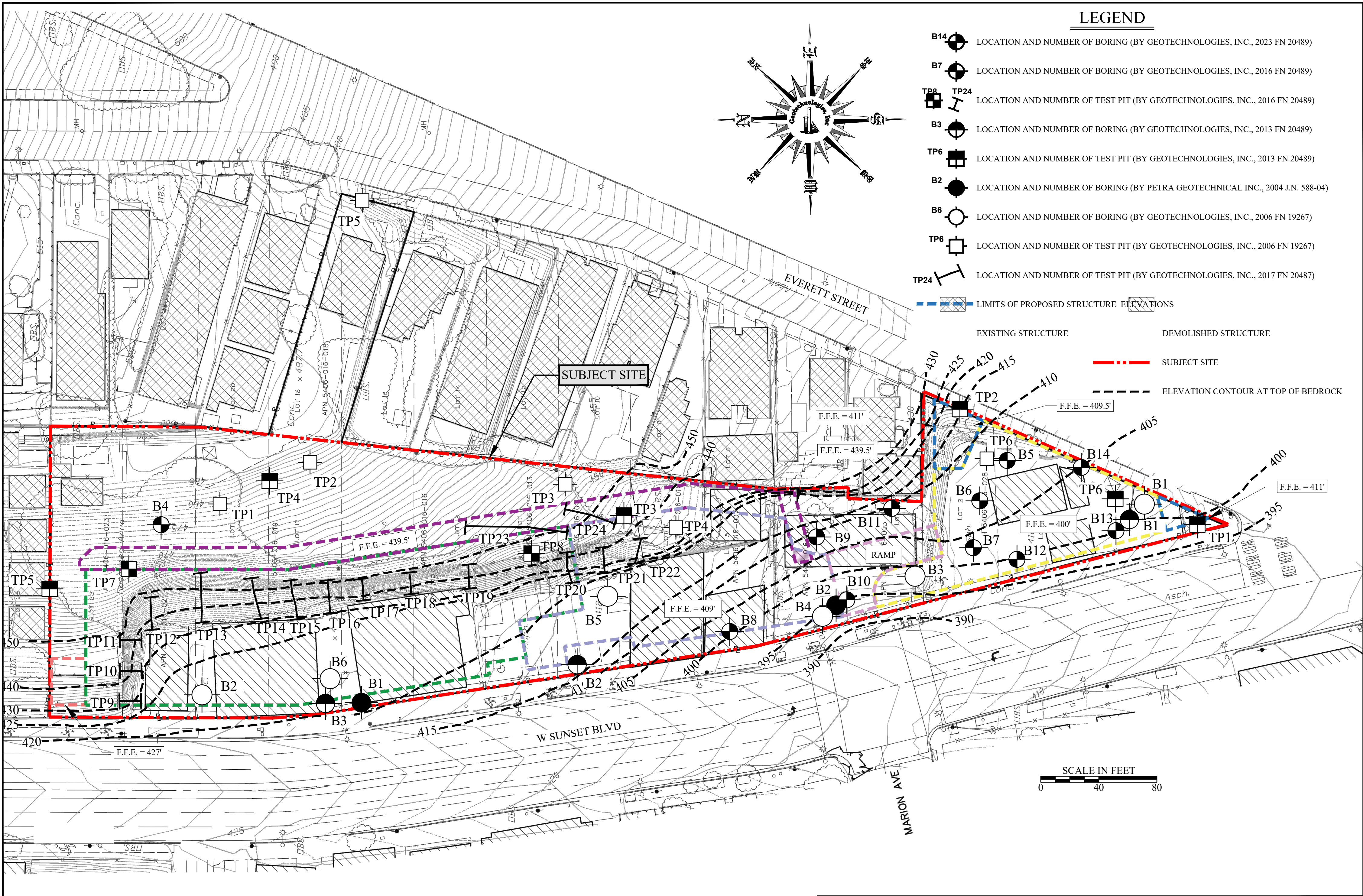


**PLOT PLAN**

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|                         |                |
|-------------------------|----------------|
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**LEGEND**

- B14 LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2023 FN 20489)
- B7 LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2016 FN 20489)
- TP8, TP24 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2016 FN 20489)
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- TP6 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2006 FN 19267)
- TP24 LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2017 FN 20487)
- LIMITS OF PROPOSED STRUCTURE ELEVATIONS

- EXISTING STRUCTURE
- DEMOLISHED STRUCTURE
- SUBJECT SITE
- ELEVATION CONTOUR AT TOP OF BEDROCK

**BEDROCK CONTOUR PLAN**

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|                         |                |
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| BORINGS AND TEST PITS BY GEOTECHNOLOGIES, INC. (2023) FILE NO 20489 |  |  |  |  |  |                                      |
|---|--|--|--|--|--|--------------------------------------|
| B8<br>(elev. 416')  | B9<br>(elev. 415')   | B10<br>(elev. 415')  | B11<br>(elev. 415')  | B12<br>(elev. 410')  | B13<br>(elev. 408')  | B14<br>(elev. 411')                  |
| 0-3' af<br>3'-15' Qal<br>15'-21 1/2' Tp<br>Seepage @ 9 1/2'         | 0-3' af<br>3'-5' Qal<br>5'-21 1/2' Tp<br>Seepage @ 11 1/2' | 0-4' af<br>4'-20' Qal<br>20'-26 1/2' Tp<br>Seepage @ 12 1/2' | 0-3' af<br>3'-6' Qal<br>6'-21 1/2' Tp<br>Seepage @ 11 1/2' | 0-3' af<br>3'-10' Qal<br>10'-21 1/2' Tp<br>Seepage @ 12 1/2' | 0-3' af<br>3'-8' Qal<br>8'-21 1/2' Tp<br>Seepage @ 12 1/2' | 0-5' af<br>5'-21 1/2' Tp<br>NO WATER |

| BORINGS AND TEST PITS BY GEOTECHNOLOGIES, INC. (2016)           |   |   |                               |   |   |  |  |   |
|---|---|---|-------------------------------|---|---|--|--|---|
| B4<br>(elev. 478')  | B4<br>(cont.)                                       | B4<br>(cont.)                                       | B4<br>(cont.)                 | B5<br>(elev. 412')  | B6<br>(elev. 412')  | B7<br>(elev. 411')   | TP7<br>(elev. 468')  | TP8<br>(elev. 447')                                     |
| 0-4' af<br>4'-60' Tp<br>@ 7.6'<br>@ 10.2'<br>@ 12.4'<br>@ 13.4' | @ 15.6'<br>@ 17.1'<br>@ 21.0'<br>@ 23.4'<br>@ 25.1' | @ 27.7'<br>@ 29.9'<br>@ 32.9'<br>@ 33.9'<br>@ 40.8' | @ 43.8'<br>@ 49.0'<br>@ 52.6' | 0-0.8' af<br>0.8-20' Tp<br>@ 4.0'<br>@ 7.0'<br>@ 11.0'<br>@ 14.4'<br>@ 5' and 12' Seepage | 0-3.5' Qcol<br>3.5'-20' Tp<br>@ 5'<br>@ 6.3'<br>@ 10.2'<br>@ 12.8'<br>@ 11.5' Seepage | 0-0.75' af<br>0.75'-6.5' Qcol<br>6.5-20' Tp<br>@ 10.4'<br>@ 14.0'<br>@ 12.0' Seepage | 0-4.5' af<br>4.5-9.0' Qcol<br>9.0'-18.0' Tp<br>@ 10.0'<br>@ 11.4'<br>@ 17.0' | 0-2.5' af<br>2.5'-13' Tp<br>@ 3.5'<br>@ 8.0'<br>@ 10.0' |

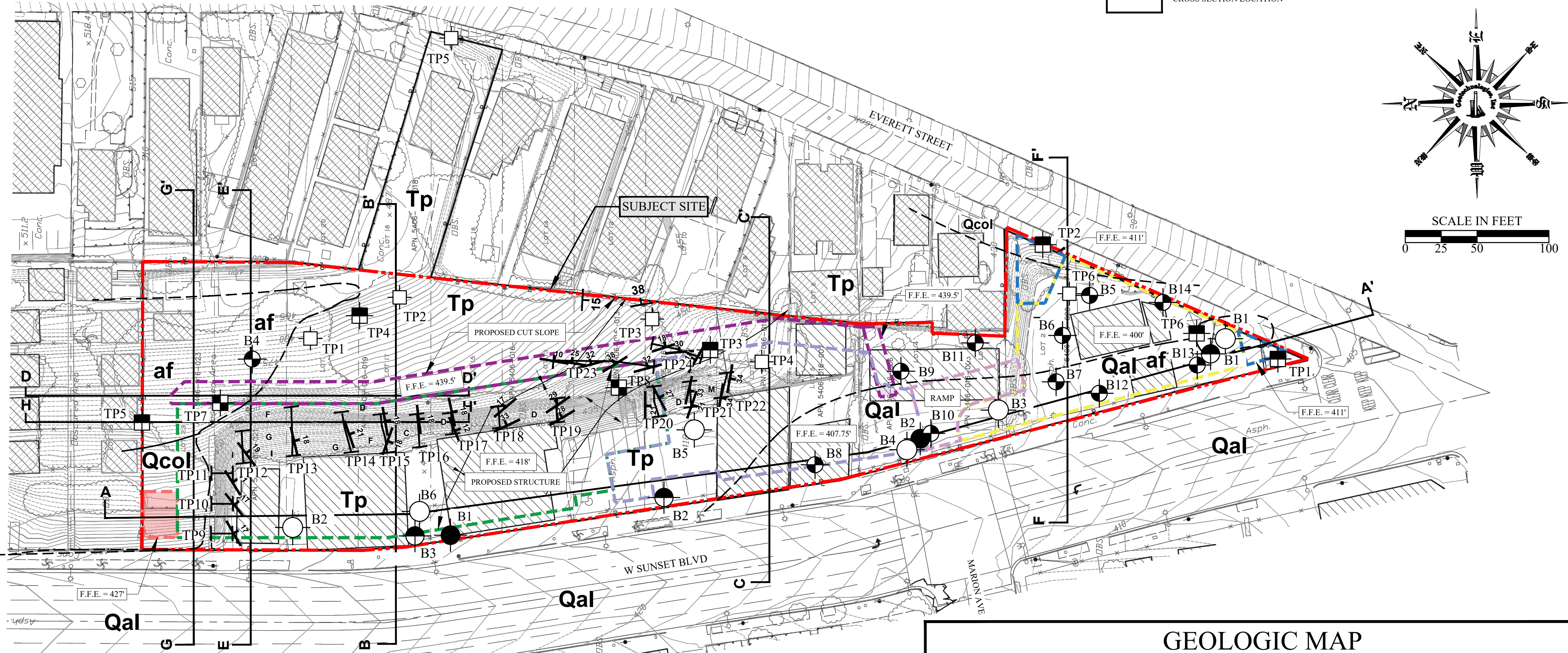
| BORINGS BY PETRA<br>GEOTECHNICAL (2004) JN 588-04 |  |
|---|--|
| B1<br>(elev. 424')                                | B2<br>(elev. 416')                       |
| 0-30' Tp<br>Seepage @ 24'                         | 0-12' Qal<br>12'-31' Tp<br>Seepage @ 17' |

| BORINGS AND TEST PITS BY GEOTECHNOLOGIES, INC. (2013) FILE NO 20489 |                                       |  |  |   |  |   |
|---|---------------------------------------|--|--|---|--|---|
| B1<br>(elev. 409')  | B2<br>(elev. 419.5')                  | B3<br>(elev. 424')                     | TP1<br>(elev. 407')                              | TP2<br>(elev. 425')                     | TP3<br>(elev. 444')                    | TP5<br>(elev. 470')   |
| 0-3' af<br>3'-10' Qal<br>10'-30' Tp<br>Seepage @ 17.5'              | 0-3' af<br>3'-30' Tp<br>Seepage @ 17' | 0-3' af<br>3'-40' Tp<br>Seepage @ 9.3' | 0-4' af<br>4'-6' Qal<br>10'-11' Tp<br>No Seepage | 1'-10' Qcol<br>10'-11' Tp<br>No Seepage | 0-1.5' af<br>1.5'-10' Tp<br>No Seepage | 0-2' af<br>2'-6.5' Qcol<br>6.5'-8' Tp<br>@ 7'<br>No Seepage |

| BORINGS AND TEST PITS BY GEOTECHNOLOGIES, INC. (2006) FILE NO 19267 |  |  |  |  |   |   |  |   |   |   |   |
|---|--|--|--|--|---|---|--|---|---|---|---|
| B1<br>(elev. 408')  | B2<br>(elev. 423')                                   | B3<br>(elev. 414')                             | B4<br>(elev. 413')                                 | B5<br>(elev. 419')   | B6<br>(elev. 421.5')  | TP1<br>(elev. 479')   | TP2<br>(elev. 479')  | TP3<br>(elev. 452')                                       | TP4<br>(elev. 434')                               | TP5<br>(elev. 476')   | TP6<br>(elev. 409')   |
| 0-5.5' af<br>5.5'-20' Tp<br>No Seepage                              | 0-15' Tp<br>@ 2'<br>@ 3.5'<br>@ 6'<br>9'-15' Seepage | 0-7' af<br>7'-15' Qal<br>15'-25' Tp<br>Seepage | 0-2' af<br>2'-18.5' Qal<br>18.5'-20' Tp<br>Seepage | 0-2' af<br>2'-10' Tp<br>@ 4.5'<br>@ 5.5'<br>@ 9.5'-10' Seepage | 0-1.5' af<br>1.5'-12' Tp<br>@ 4'<br>@ 6.5'<br>@ 11.5'-12' Seepage | 0-0.5' af<br>0.5'-2' Tp<br>2'-4' Tp<br>@ 3'<br>@ 3'<br>No Seepage | 0-2.5' af<br>2.5-5' Tp<br>4'-4' Tp<br>@ 4'<br>@ 4'<br>No Seepage | 0-0.5' af<br>0.5'-3' Tp<br>@ 2.5'<br>@ 2.5'<br>No Seepage | 0-2' af<br>2'-5' Tp<br>@ 4'<br>@ 4'<br>No Seepage | 0-2' af<br>2'-4' Tp<br>@ 3'<br>@ 3.5'<br>@ 3.5'<br>No Seepage | 0-2.5' af<br>2.5'-4' Tp<br>@ 3'<br>@ 3'<br>@ 3'<br>No Seepage |

**LEGEND**

- af** ARTIFICIAL FILL (where > 4' thick)
- Qal** ALLUVIUM (where > 4' thick)
- Qcol** COLLUVIUM (where > 4' thick)
- Tp** BEDROCK (PUENTE FORMATION)
- C, D, E, F, G, I, K, L** MARKER BEDS
- BEDDING ORIENTATION
- VERTICAL FRACTURE
- GEOLOGIC CONTACT
- B14** LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2023, FN 20489)
- B7** LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2016, FN 20489)
- TP8** LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2016, FN 20489)
- TP24** LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2017, FN 20487)
- B3** LOCATION AND NUMBER OF BORING (BY GEOTECHNOLOGIES, INC., 2013, FN 20489)
- TP6** LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2013, FN 20489)
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- TP24** LOCATION AND NUMBER OF TEST PIT (BY GEOTECHNOLOGIES, INC., 2017, FN 20487)
- LIMITS OF PROPOSED STRUCTURE ELEVATIONS
- DEMOLISHED STRUCTURE
- EXISTING STRUCTURE
- SUBJECT SITE
- ANTICLINE, ARROW SHOWING PLUNGE DIRECTION
- SYNCLINE, ARROW SHOWING PLUNGE DIRECTION
- CROSS SECTION LOCATION



**GEOLOGIC MAP**

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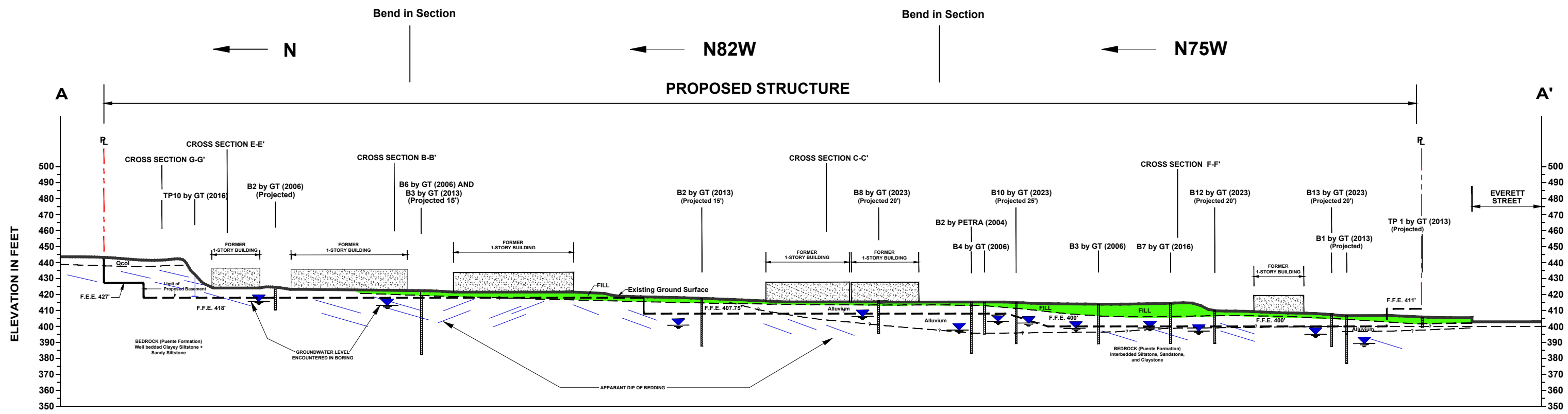
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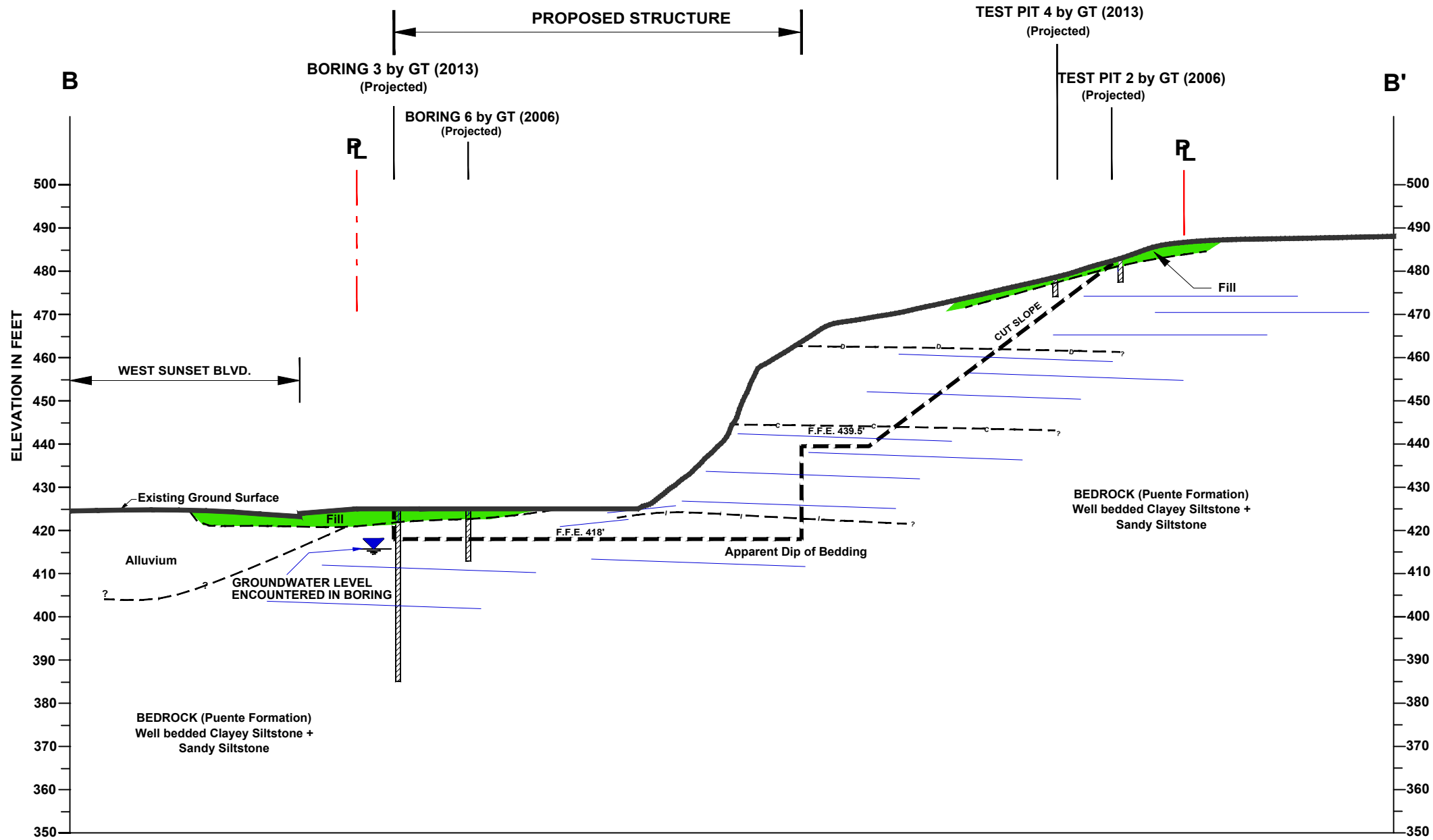


REFERENCE: TOPOGRAPHIC MAP PROVIDED BY SITETECH INC.  
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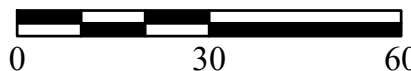
|   |                         |
|---|-------------------------|
| <b>CROSS SECTION A-A'</b>   |                         |
| <br><b>Geotechnologies, Inc.</b><br><i>Consulting Geotechnical Engineers</i> | ARAGON PROPERTIES, LTD. |
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N90W



CROSS SECTION B-B'

SCALE IN FEET



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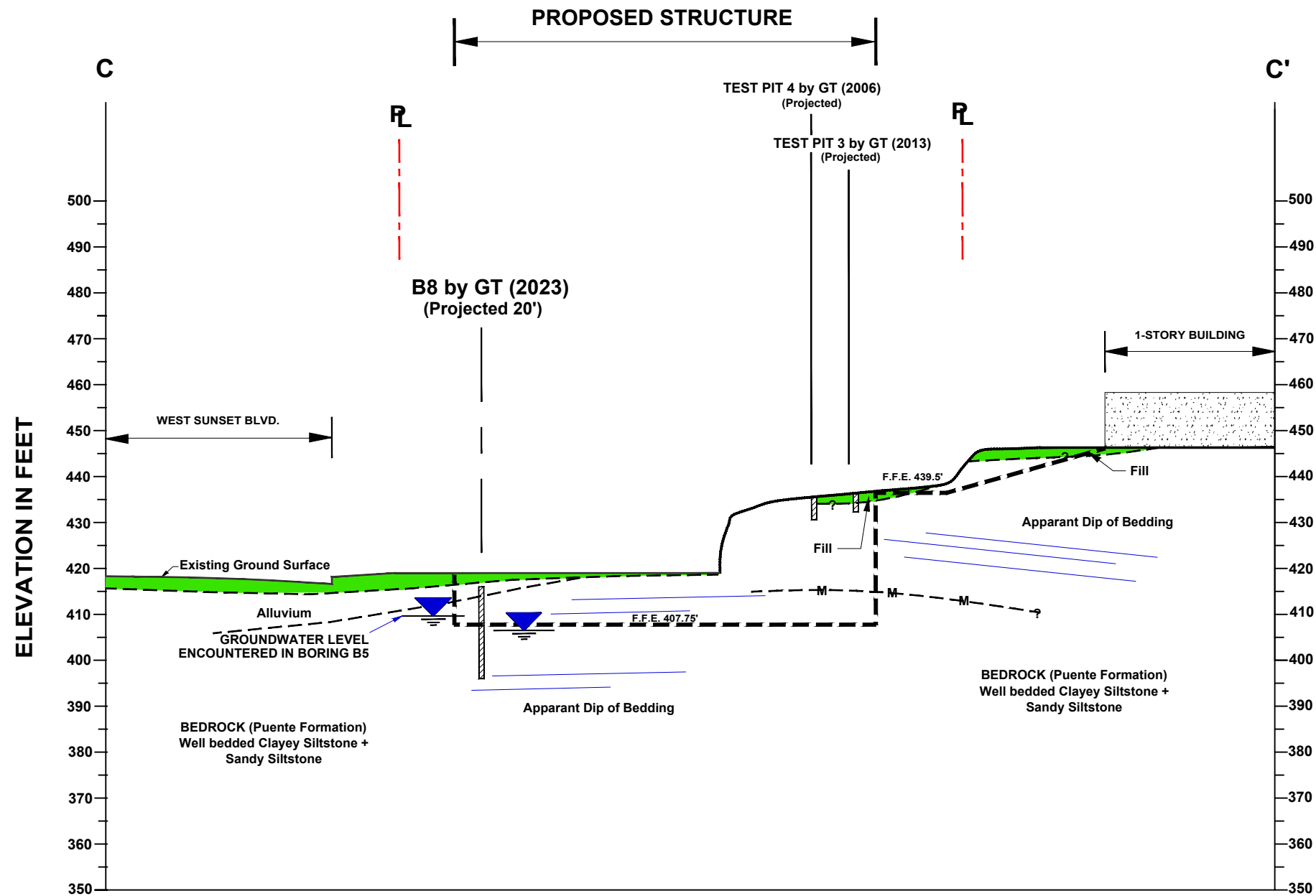
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FILE NO. 20489

DATE: JULY 2023

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NOT DATED

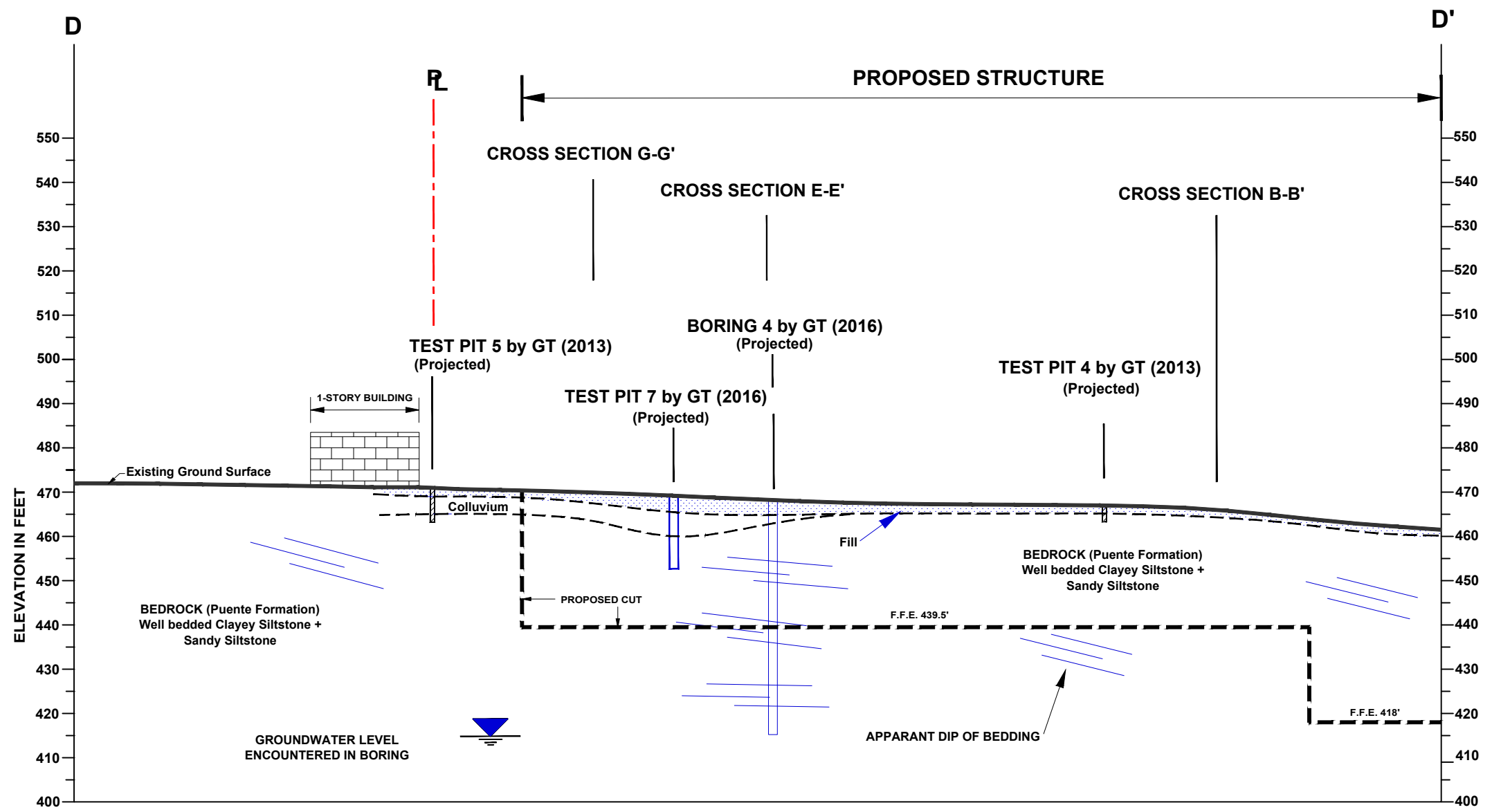
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NOT DATED




|  |                |
|--|----------------|
| <b>CROSS SECTION C-C'</b>  |                |
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| ARAGON PROPERTIES, LTD.  |                |
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| DATE: JULY 2023  |                |



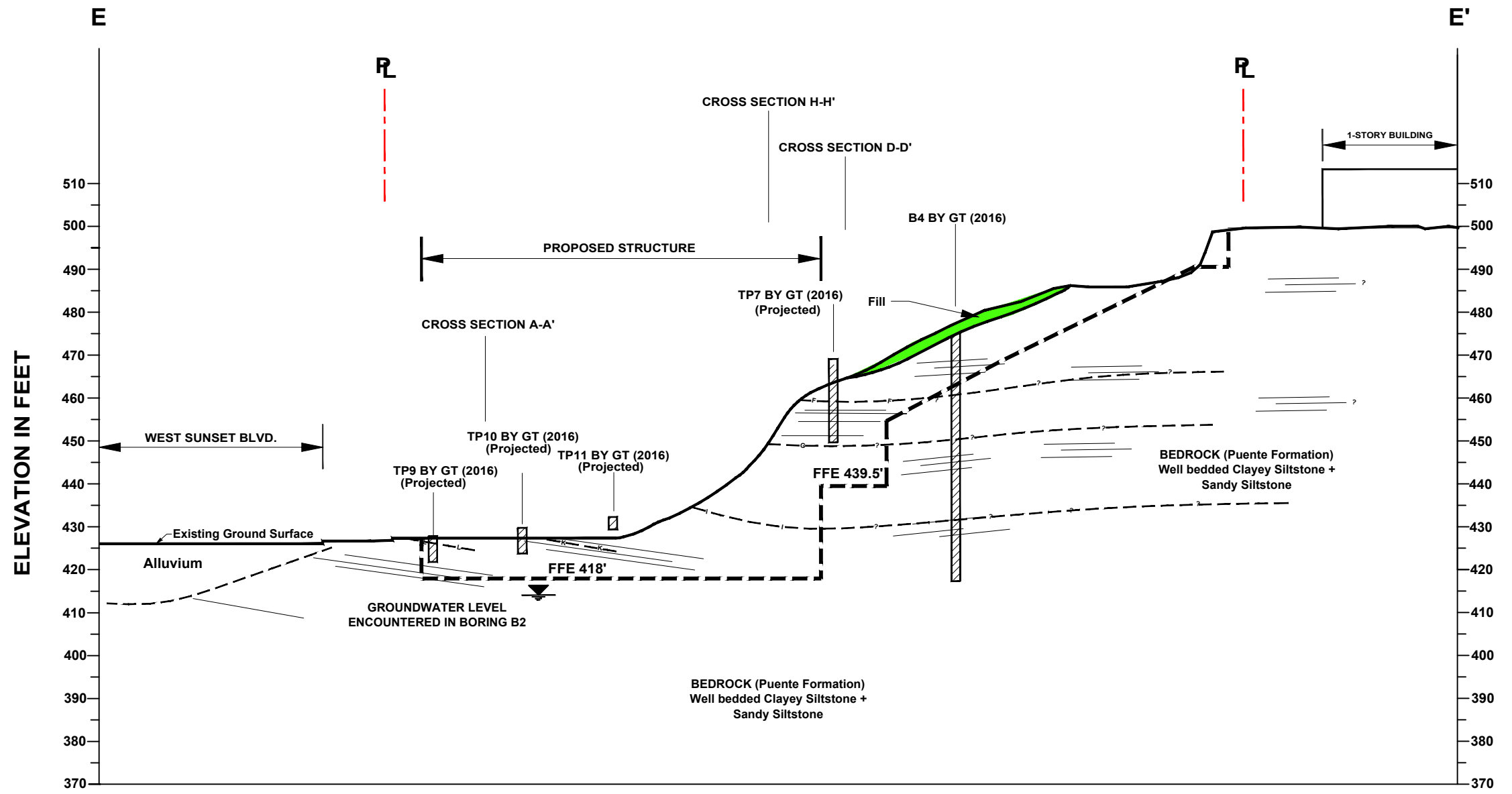
**CROSS SECTION D-D'**



|   |                         |                |
|---|-------------------------|----------------|
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CROSS SECTION E-E'

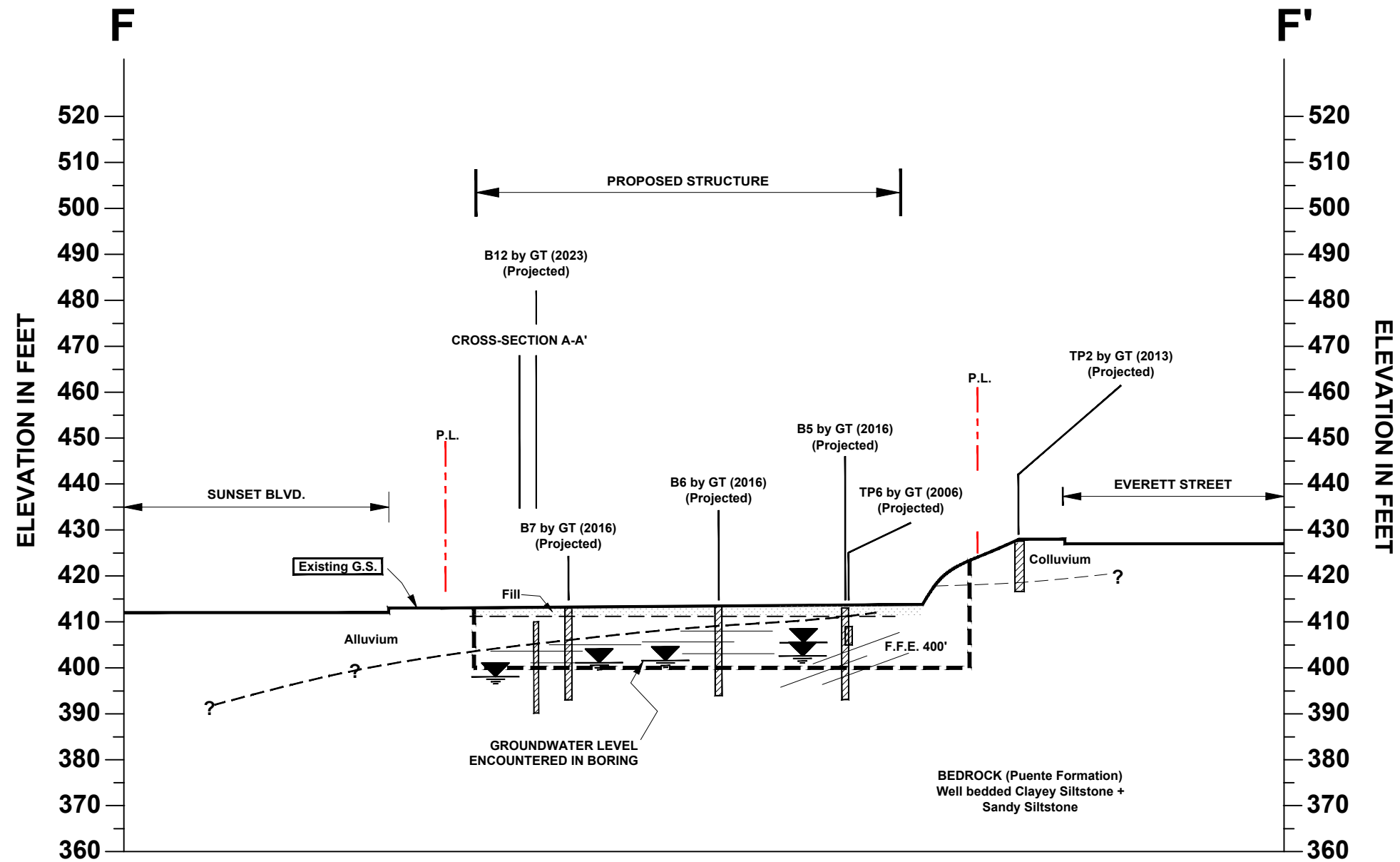


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NOT DATED

|   |                         |                |
|---|-------------------------|----------------|
|  <p><b>Geotechnologies, Inc.</b><br/>Consulting Geotechnical Engineers</p> | ARAGON PROPERTIES, LTD. |                |
|   | DRAWN BY: JD            | FILE NO. 20489 |
|   | DATE: JULY 2023         |                |

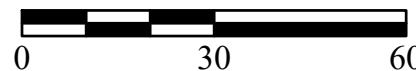


**E**



**CROSS SECTION F-F'**

SCALE IN FEET



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

ARAGON PROPERTIES, LTD.

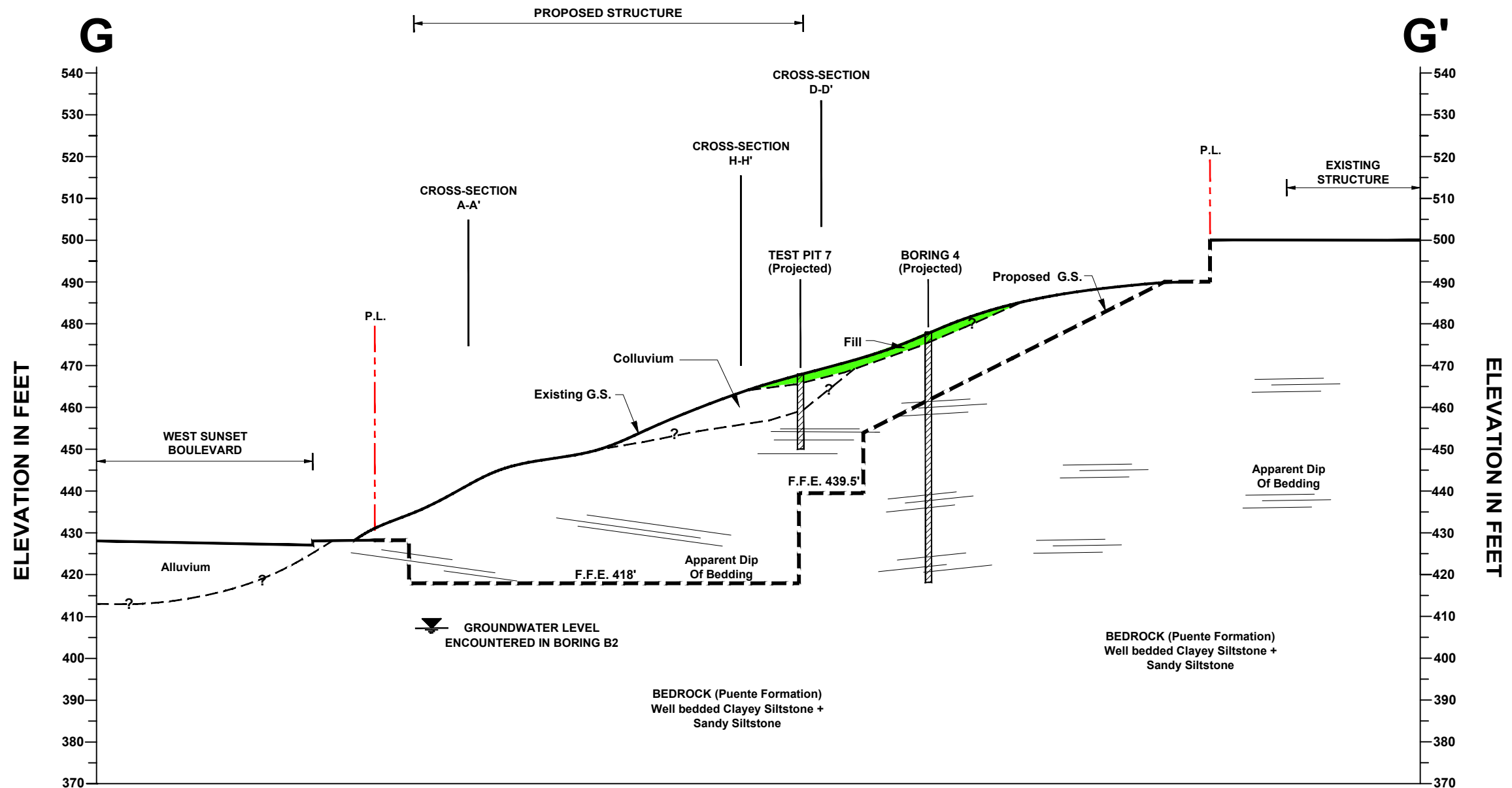
DRAWN BY: JD

FILE NO. 20489

DATE: JULY 2023

REFERENCE: TOPOGRAPHIC MAP BY SITETECH INC.  
NOT DATED

W



CROSS SECTION G-G'



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

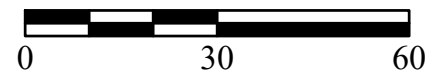
ARAGON PROPERTIES, LTD.

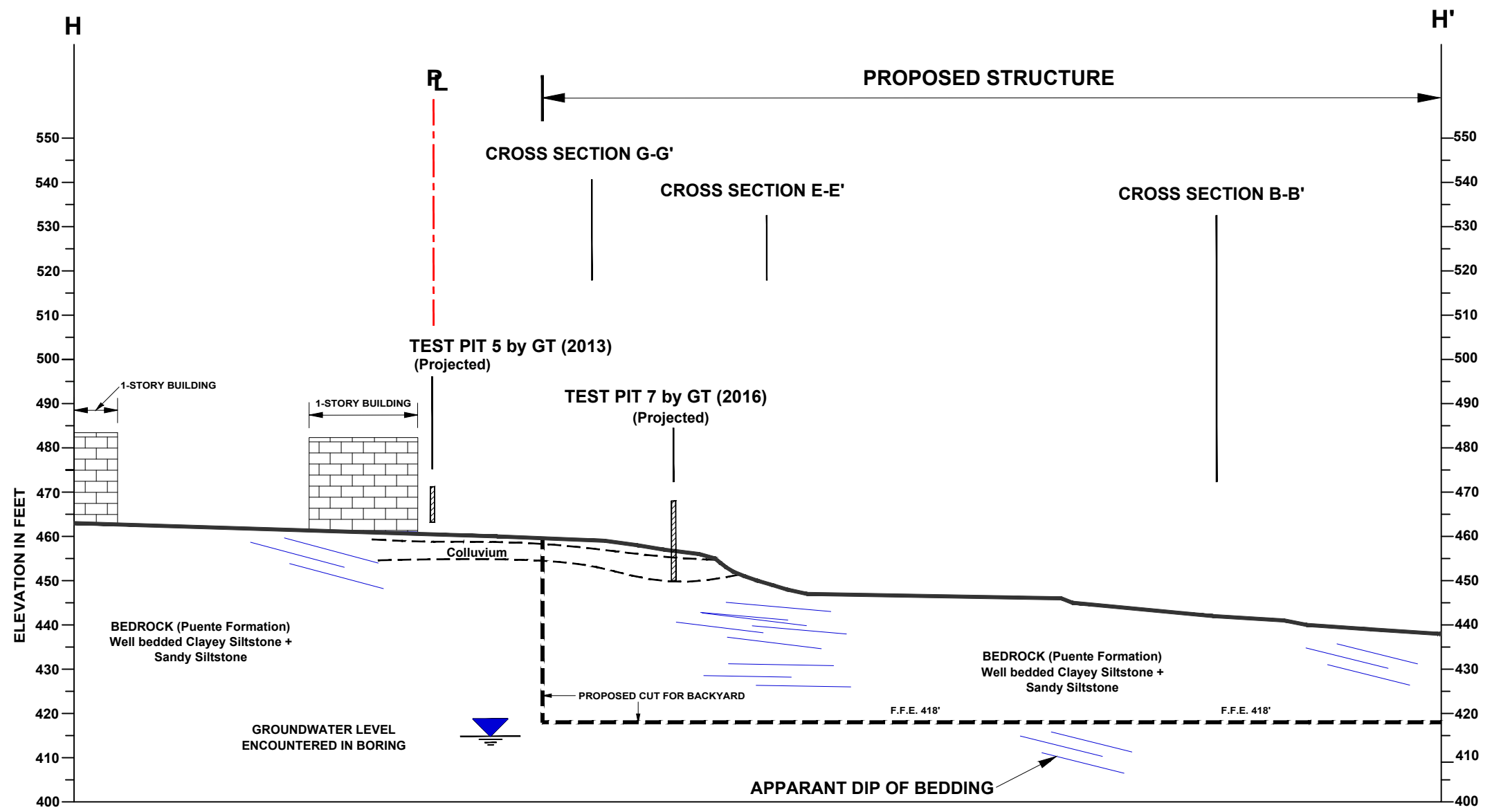
DRAWN BY: JD

FILE NO. 20489

DATE: JULY 2023


REFERENCE: TOPOGRAPHIC MAP BY SITETECH INC.  
NOT DATED





### CROSS SECTION H-H'



|   |                         |                |
|---|-------------------------|----------------|
| <br><b>Geotechnologies, Inc.</b><br><i>Consulting Geotechnical Engineers</i> | ARAGON PROPERTIES, LTD. |                |
|   | DRAWN BY: JD            | FILE NO. 20489 |
|   | DATE: OCTOBER 2023      |                |

REFERENCE: TOPOGRAPHIC MAP BY SITETECH INC.  
NOT DATED

# BORING LOG NUMBER 8

Aragon Properties Corporation

Date: 11/09/23

Elevation: 416'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

kk

| Sample Depth ft. | Blows per ft.  | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description  |
|------------------|----------------|--------------------|--------------------|---------------|-------------|--|
|                  |                |                    |                    | 0 --          |             | FILL: Sandy Silt to Silty Clay, dark brown, moist, stiff   |
|                  |                |                    |                    | -             |             |  |
|                  |                |                    |                    | 1 --          |             |  |
|                  |                |                    |                    | -             |             |  |
|                  |                |                    |                    | 2 --          |             |  |
|                  |                |                    |                    | -             |             |  |
|                  |                |                    |                    | 3 --          |             |  |
|                  |                |                    |                    | -             | ML/CL       | ALLUVIUM: Sandy Silt to Silty Clay, brown, moist   |
|                  |                |                    |                    | 4 --          |             |  |
|                  |                |                    |                    | 5 --          |             | -----  |
| 5                | 14             | 25.3               | 94.4               | -             |             | Clayey Silt to Silty Clay  |
|                  |                |                    |                    | 6 --          |             |  |
|                  |                |                    |                    | 7 --          |             |  |
| 7.5              | 10             | 28.5               | 92.9               | -             |             |  |
|                  |                |                    |                    | 8 --          | CL          | Silty Clay   |
|                  |                |                    |                    | -             |             |  |
|                  |                |                    |                    | 9 --          |             |  |
|                  |                |                    |                    | 10 --         |             |  |
| 10               | 9              | 28.1               | 93.4               | -             | ML/CL       | Clayey Silt to Silty Clay  |
|                  |                |                    |                    | 11 --         |             |  |
|                  |                |                    |                    | 12 --         |             |  |
| 12.5             | 9              | 26.0               | 99.4               | -             |             | -----  |
|                  |                |                    |                    | 13 --         |             | brown and yellowish brown, wet, mottled  |
|                  |                |                    |                    | 14 --         |             |  |
|                  |                |                    |                    | 15 --         |             |  |
| 15               | 19             | 25.8               | 97.7               | -             | RX          | BEDROCK (PUENTE FORMATION) Sandstone and Clayey Siltstone, yellowish brown and greenish gray, wet, moderately hard, well bedded, white caliche streaks |
|                  |                |                    |                    | 16 --         |             |  |
|                  |                |                    |                    | 17 --         |             |  |
| 17.5             | 54/6"<br>50/4" | 24.3               | 101.7              | -             |             | <b>NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.</b>                           |
|                  |                |                    |                    | 18 --         |             |  |
|                  |                |                    |                    | 19 --         |             | Used 8-inch diameter Hollow-Stem Auger   |
|                  |                |                    |                    | 20 --         |             | 140-lb. Automatic Hammer, 30-inch drop   |
| 20               | 50/3"          | 24.9               | 101.9              | -             |             | Modified California Sampler used unless otherwise noted  |
|                  |                |                    |                    | 21 --         |             |  |
|                  |                |                    |                    | 22 --         |             | Total Depth 21.5 feet  |
|                  |                |                    |                    | 23 --         |             | Water at 9.5 feet  |
|                  |                |                    |                    | 24 --         |             | Fill to 3 feet   |
|                  |                |                    |                    | 25 --         |             |  |
|                  |                |                    |                    | -             |             |  |

# BORING LOG NUMBER 9

Aragon Properties Corporation

Date: 11/09/23

Elevation: 415'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

kk

| Sample Depth ft. | Blows per ft. | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description  |
|------------------|---------------|--------------------|--------------------|---------------|-------------|--|
|                  |               |                    |                    | 0 --          |             | Surface Conditions: Barren Ground  |
|                  |               |                    |                    | -             |             | FILL: Sandy Silt to Silty Clay, dark brown, moist, stiff   |
|                  |               |                    |                    | 1 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 2 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 3 --          |             | ML/CL ALLUVIUM: Clayey Silt to Silty Clay, dark brown, moist, very stiff   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 4 --          |             |  |
| 5                | 82            | 27.7               | 94.3               | 5 --          |             | RX BEDROCK (PUENTE FORMATION): Sandstone yellowish brown and light greenish gray, moist, moderately hard, white caliche streaked, well bedded  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 6 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 7 --          |             |  |
|                  |               |                    |                    | -             |             | Interbedded Clayey Siltstone and Sandstone, yellowish brown and greenish gray  |
|                  |               |                    |                    | 8 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 9 --          |             |  |
|                  |               |                    |                    | -             |             |  |
| 10               | 65            | 20.2               | 111.7              | 10 --         |             | -----  |
|                  |               |                    |                    | -             |             | brownish yellow, moist, moderately hard  |
|                  |               |                    |                    | 11 --         |             | NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.<br>Used 8-inch diameter Hollow-Stem Auger<br>140-lb. Automatic Hammer, 30-inch drop<br>Modified California Sampler used unless otherwise noted |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 12 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 13 --         |             | Interbedded Clayey Siltstone and Sandstone, yellowish brown and greenish gray  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 14 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 15 --         |             |  |
| 15               | 50            | 22.7               | 102.5              | 15 --         |             | -----  |
|                  |               |                    |                    | -             |             | Interbedded Clayey Siltstone and Sandstone, yellowish brown and greenish gray  |
|                  |               |                    |                    | 16 --         |             | Sandstone, greenish gray and yellowish brown   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 17 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 18 --         |             |  |
|                  |               |                    |                    | -             |             | Sandstone, greenish gray and yellowish brown   |
|                  |               |                    |                    | 19 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 20 --         |             |  |
|                  |               |                    |                    | -             |             |  |
| 20               | 65            | 25.7               | 99.1               | 20 --         |             | -----  |
|                  |               |                    |                    | -             |             | Sandstone, greenish gray and yellowish brown   |
|                  |               |                    |                    | 21 --         |             | Total Depth 21.5 feet<br>Water at 11.5 feet<br>Fill to 3 feet  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 22 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 23 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 24 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 25 --         |             |  |
|                  |               |                    |                    | -             |             |  |

# BORING LOG NUMBER 10

Aragon Properties Corporation

Date: 11/09/23

Elevation: 415'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

kk

| Sample Depth ft. | Blows per ft. | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description   |
|------------------|---------------|--------------------|--------------------|---------------|-------------|---|
|                  |               |                    |                    | 0 --          |             | Surface Conditions: Barren Ground   |
|                  |               |                    |                    | -             |             | FILL: Sandy Silt to Silty Clay, dark brown, moist, stiff  |
|                  |               |                    |                    | 1 --          |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 2 --          |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 3 --          |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 4 --          |             |   |
|                  |               |                    |                    | -             |             |   |
| 5                | 16            | 21.9               | 95.6               | 5 --          | CL          | ALLUVIUM: Silty Clay, dark brown with dark red mottling, moist, firm to stiff, organics                                       |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 6 --          |             |   |
|                  |               |                    |                    | -             |             |   |
| 7.5              | 18            | 24.2               | 102.8              | 7 --          |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 8 --          | ML/CL       | Sandy Silt to Silty Clay, yellowish brown with light brown mottling   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 9 --          |             |   |
|                  |               |                    |                    | -             |             |   |
| 10               | 17            | 24.9               | 103.9              | 10 --         |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 11 --         |             |   |
|                  |               |                    |                    | -             |             |   |
| 12.5             | 25            | 20.7               | 106.0              | 12 --         |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 13 --         |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 14 --         |             |   |
|                  |               |                    |                    | -             |             |   |
| 15               | 40            | 21.6               | 106.6              | 15 --         |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 16 --         | ML          | Sandy to Clayey Silt, dark reddish brown and grayish brown, moist, stiff  |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 17 --         |             |   |
|                  |               |                    |                    | -             |             |   |
| 17.5             | 26            | 20.4               | 102.3              | 18 --         |             | @ 18' 1" layer of Gravelly Sand, dark, reddish brown  |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 19 --         |             |   |
|                  |               |                    |                    | -             |             |   |
| 20               | 51            | 22.5               | 105.8              | 20 --         |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 21 --         | RX          | BEDROCK (PUENTE FORMATION): Interbedded Sandstone to Siltstone, gray and yellowish brown, moist, moderately hard, well bedded |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 22 --         |             |   |
|                  |               |                    |                    | -             |             |   |
| 22.5             | 81            | 20.8               | 105.7              | 23 --         |             |   |
|                  |               |                    |                    | -             |             |   |
|                  |               |                    |                    | 24 --         |             |   |
|                  |               |                    |                    | -             |             |   |
| 25               | 77            | 25.5               | 102.5              | 25 --         |             |   |
|                  |               |                    |                    | -             |             | yellowish brown, with white caliche streaks   |



# BORING LOG NUMBER 11

Aragon Properties Corporation

Date: 11/09/23

Elevation: 415'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

kk

| Sample Depth ft. | Blows per ft. | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description  |
|------------------|---------------|--------------------|--------------------|---------------|-------------|--|
|                  |               |                    |                    | 0 --          |             | FILL: Sandy Silt to Silty Clay, dark brown, moist, stiff   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 1 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 2 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 3 --          |             |  |
|                  |               |                    |                    | -             | ML/CL       | ALLUVIUM: Clayey Silt to Silty Clay, dark brown, moist, stiff  |
|                  |               |                    |                    | 4 --          |             |  |
|                  |               |                    |                    | -             |             |  |
| 5                | 69            | 17.0               | 105.3              | 5 --          | ML          | Sandy to Clayey Silt, yellowish brown, moist, stiff  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 6 --          |             |  |
|                  |               |                    |                    | -             | RX          | BEDROCK (PUENTE FORMATION): Silty Sandstone, light and yellowish brown, moist, moderately hard                       |
|                  |               |                    |                    | 7 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 8 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 9 --          |             |  |
|                  |               |                    |                    | -             |             |  |
| 10               | 50            | 26.6               | 97.8               | 10 --         |             | Interbedded Sandstone to Siltstone, dark and grayish brown, moist, moderately hard                                   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 11 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 12 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 13 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 14 --         |             |  |
|                  |               |                    |                    | -             |             |  |
| 15               | 51            | 23.6               | 103.5              | 15 --         |             | Sandstone with some Clayey Siltstone interbeds, yellowish brown and greenish gray                                    |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 16 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 17 --         |             | NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 18 --         |             | Used 8-inch diameter Hollow-Stem Auger   |
|                  |               |                    |                    | -             |             | 140-lb. Automatic Hammer, 30-inch drop   |
|                  |               |                    |                    | 19 --         |             | Modified California Sampler used unless otherwise noted  |
|                  |               |                    |                    | -             |             |  |
| 20               | 41            | 25.0               | 101.3              | 20 --         |             | light gray and yellowish brown   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 21 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 22 --         |             | Total Depth 21.5 feet  |
|                  |               |                    |                    | -             |             | Water at 11.5 feet   |
|                  |               |                    |                    | 23 --         |             | Fill to 3 feet   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 24 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 25 --         |             |  |
|                  |               |                    |                    | -             |             |  |



# BORING LOG NUMBER 12

Aragon Properties Corporation

Date: 11/09/23

Elevation: 410'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

kk

| Sample Depth ft. | Blows per ft. | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description  |
|------------------|---------------|--------------------|--------------------|---------------|-------------|--|
|                  |               |                    |                    | 0 --          |             | Surface Conditions: Barren Ground  |
|                  |               |                    |                    | -             |             | FILL: Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained, stiff   |
|                  |               |                    |                    | 1 --          |             |  |
|                  |               |                    |                    | 2 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 3 --          |             |  |
|                  |               |                    |                    | -             | ML/CL       | ALLUVIUM: Clayey Silt to Silty Clay, dark brown, moist, stiff  |
|                  |               |                    |                    | 4 --          |             |  |
|                  |               |                    |                    | 5 --          |             |  |
| 5                | 47            | 19.8               | 111.7              | -             | CL          | Clayey Silt, dark brown and dark reddish brown, moist, stiff   |
|                  |               |                    |                    | 6 --          |             |  |
|                  |               |                    |                    | 7 --          |             |  |
| 7.5              | 20            | 28.9               | 92.5               | -             |             | -----<br>yellowish brown   |
|                  |               |                    |                    | 8 --          |             |  |
|                  |               |                    |                    | 9 --          |             |  |
|                  |               |                    |                    | 10 --         |             |  |
| 10               | 32            | 24.4               | 98.8               | -             |             | BEDROCK (PUENTE FORMATION): Siltstone to Sandstone, dark and grayish brown, reddish yellow and greenish gray, moist, moderately hard, well bedded, white caliche along fracture surfaces |
|                  |               |                    |                    | 11 --         |             |  |
|                  |               |                    |                    | 12 --         |             |  |
|                  |               |                    |                    | 13 --         |             |  |
|                  |               |                    |                    | 14 --         |             |  |
|                  |               |                    |                    | 15 --         |             | -----  |
| 15               | 59            | 36.7               | 87.8               | -             |             | Sandstone, light greenish gray, very moist   |
|                  |               |                    |                    | 16 --         |             |  |
|                  |               |                    |                    | 17 --         |             | NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual   |
|                  |               |                    |                    | 18 --         |             | Used 8-inch diameter Hollow-Stem Auger   |
|                  |               |                    |                    | 19 --         |             | 140-lb. Automatic Hammer, 30-inch drop   |
|                  |               |                    |                    | -             |             | Modified California Sampler used unless otherwise noted  |
|                  |               |                    |                    | 20 --         |             | -----  |
| 20               | 84            | 24.0               | 103.0              | -             |             | Silty Sandstone, greenish gray and grayish brown,  |
|                  |               |                    |                    | 21 --         |             |  |
|                  |               |                    |                    | 22 --         |             | Total Depth 21.5 feet  |
|                  |               |                    |                    | -             |             | Water at 12.5 feet   |
|                  |               |                    |                    | 23 --         |             | Fill to 3 feet   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 24 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 25 --         |             |  |
|                  |               |                    |                    | -             |             |  |

# BORING LOG NUMBER 13

Aragon Properties Corporation

Date: 11/09/23

Elevation: 408'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

kk

| Sample Depth ft. | Blows per ft. | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description  |
|------------------|---------------|--------------------|--------------------|---------------|-------------|--|
|                  |               |                    |                    | 0 --          |             | Surface Conditions: Barren Ground  |
|                  |               |                    |                    | -             |             | <b>FILL: Sandy to Clayey Silt, dark brown, moist, stiff</b>  |
|                  |               |                    |                    | 1 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 2 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 3 --          |             | <b>ML ALLUVIUM: Sandy Silt, mottled brown and yellowish brown, moist, firm to stiff</b>  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 4 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 5 --          |             |  |
| 5                | 31            | 25.4               | 99.2               | -             |             | -----<br><b>Sandy Silt with rock fragment, dark and yellowish brown, moist, stiff</b>  |
|                  |               |                    |                    | 6 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 7 --          |             |  |
|                  |               |                    |                    | -             |             |  |
| 7.5              | 20            | 22.0               | 99.1               | 8 --          |             | <b>RX BEDROCK (PUENTE FORMATION): Sandstone, brown and yellowish brown, moist, moderately hard, well bedded</b>                                      |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 9 --          |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 10 --         |             |  |
| 10               | 54            | 20.4               | 102.4              | -             |             | -----<br><b>Sandstone to Siltstone, dark gray and reddish brown, very weathered</b>  |
|                  |               |                    |                    | 11 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 12 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 13 --         |             | -----<br><b>Sandstone, greenish gray and reddish brown</b>   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 14 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 15 --         |             |  |
| 15               | 32            | 23.7               | 98.8               | -             |             | <b>NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual</b>                          |
|                  |               |                    |                    | 16 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 17 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 18 --         |             | <b>Used 8-inch diameter Hollow-Stem Auger<br/>140-lb. Automatic Hammer, 30-inch drop<br/>Modified California Sampler used unless otherwise noted</b> |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 19 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 20 --         |             |  |
| 20               | 46            | 34.3               | 91.5               | -             |             | <b>gray and light gray</b>   |
|                  |               |                    |                    | 21 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 22 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 23 --         |             | <b>Total Depth 21.5 feet<br/>Water at 12.5 feet<br/>Fill to 3 feet</b>   |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 24 --         |             |  |
|                  |               |                    |                    | -             |             |  |
|                  |               |                    |                    | 25 --         |             |  |
|                  |               |                    |                    | -             |             |  |

# BORING LOG NUMBER 14

Aragon Properties Corporation

Date: 11/09/23

Elevation: 411'\*

File No. 20489

Method: 8-inch diameter Hollow Stem Auger

\*Reference: Topographic Map by Site Tech, not dated

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| Sample Depth ft. | Blows per ft. | Moisture content % | Dry Density p.c.f. | Depth in feet | USCS Class. | Description   |  |
|------------------|---------------|--------------------|--------------------|---------------|-------------|---|--|
|                  |               |                    |                    | 0 --          |             | Surface Conditions: Barren Ground   |  |
| 5                | 100/5"        | 4.0                | 138.1              | -             |             | FILL: Silty Sand, yellowish brown, moist, medium dense, fine grained, minor gravel  |  |
|                  |               |                    |                    | 1 --          |             |   |  |
|                  |               |                    |                    | 2 --          |             |   |  |
|                  |               |                    |                    | 3 --          |             |   |  |
|                  |               |                    |                    | 4 --          |             |   |  |
| 10               | 92            | 18.5               | 109.8              | 5 --          | RX          | BEDROCK (PUENTE FORMATION): Sandstone to Siltstone, cemented, pale yellowish brown, moist, moderately hard to hard, massive |  |
|                  |               |                    |                    | 6 --          |             |   |  |
|                  |               |                    |                    | 7 --          |             |   |  |
|                  |               |                    |                    | 8 --          |             |   |  |
|                  |               |                    |                    | 9 --          |             |   |  |
| 15               | 39            | 35.2               | 88.1               | 10 --         |             | Sandstone, light yellowish brown, massive, moderately hard  |  |
|                  |               |                    |                    | 11 --         |             |   |  |
|                  |               |                    |                    | 12 --         |             |   |  |
|                  |               |                    |                    | 13 --         |             |   |  |
|                  |               |                    |                    | 14 --         |             |   |  |
| 20               | 58            | 24.3               | 98.3               | 15 --         |             | Interbedded Sandstone and Clayey Sandstone, well bedded, greenish gray and gray   |  |
|                  |               |                    |                    | 16 --         |             |   |  |
|                  |               |                    |                    | 17 --         |             | NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.       |  |
|                  |               |                    |                    | 18 --         |             | Used 8-inch diameter Hollow-Stem Auger  |  |
|                  |               |                    |                    | 19 --         |             | 140-lb. Automatic Hammer, 30-inch drop  |  |
|                  |               |                    |                    | 20 --         |             | Modified California Sampler used unless otherwise noted   |  |
|                  |               |                    |                    | 21 --         |             | light reddish brown, dark brown and grayish brown   |  |
|                  |               |                    |                    | 22 --         |             | Total Depth 21.5 feet   |  |
|                  |               |                    |                    | 23 --         |             | No Water  |  |
|                  |               |                    |                    | 24 --         |             | Fill to 6 feet  |  |
|                  |               |                    |                    | 25 --         |             |   |  |