

**FINAL GEOTECHNICAL ENGINEERING REPORT
VENETIAN AT WESTON TRAILS, PHASE 1**

**PRELIMINARY GEOTECHNICAL REPORT
REMAINDER OF VENETIAN AT WESTON TRAILS
WESTON, TEXAS**

**Prepared for:
HONEYCREEK VENETIAN, LLC
C/O LENART DEVELOPMENT
Plano, Texas**

**EWI Report No. LD205681R
October 2020**



Ellerbee-Walczak, Inc.
GEOTECHNICAL ENGINEERING &
CONSTRUCTION MATERIALS TESTING SERVICES

October 27, 2020

Honeycreek Venetian, LLC
c/o Lenart Development Company, LLC
520 Central Expressway East, Suite 104
Plano, Texas 75074
Attn: Mr. Steve Lenart

Re: Final Geotechnical Engineering Report
Venetian at Weston Trails, Phase 1

Preliminary Geotechnical Report
Remainder of Venetian at Weston Trails (not designated as Phase 1)

County Road 206
Weston, Texas
EWI Report No. LD205681R (Revised)

Ellerbee-Walczak, Inc. (EWI) has completed the Geotechnical Engineering Report for the above referenced project. This report was revised to include recommendations for pavement and pavement subgrades. The results are presented in the attached report.

Please do not hesitate to contact us if you have any questions regarding the information in this report or if we can be of any additional assistance.

It has been a pleasure providing geotechnical services for this project.

Sincerely,
Ellerbee-Walczak, Inc.
TBPE Firm No. F-4610

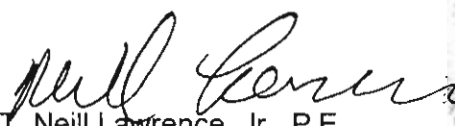

T. Neill Lawrence, Jr., P.E.
Manager Engineering



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WESTON, TEXAS**

1.0 SITE & PROJECT INFORMATION

The 44.586-acre development site designated as Phase 1 of the Weston Trails development being a portion of the 324.506-acre Weston Trails (remainder) development is located on the north side of County Road 206 and east of FM 543 N. and FM 229 in the City of Weston, Collin County, Texas. The property was mostly open crop and pastureland with scattered trees along the fence lines and drains from the north centrally located higher elevation to towards the south, east and west. Phase 1 was generally open with scattered trees along the fence lines and drains towards the east.

The proposed residential portion of Phase 1 will consist of Block Y – Lots 1 through 18, Block Z – Lots 1 through 36, Block AA – Lots 1 through 33, Block BB – Lots 1 through 21, Block CC – Lots 1 through 27, Block DD – Lots 1 through 32, Block EE – Lots 1 through 32 and Block JJ – Lots 18 through 31.

Proposed Phase 1 construction consists of about 213 new, one or two story, wood-frame/brick-veneer single-family residences with relatively light foundation loads. The project's preliminary grading plans (dated 4/23/2020) provided to this office indicate cuts up to -2 feet and fills up to +7 feet will be required to achieve finished pad grades.

About 1,235 residential lots are planned for the entire Weston Trails development.

2.0 SCOPE OF SERVICES

The purpose of our geotechnical services for this site were to:

- Evaluate the subsurface conditions encountered in the borings.
- Evaluate the pertinent engineering properties of the recovered samples.
- Provide final recommendations concerning suitable types of foundation and floor slab systems for the proposed Phase 1 residences.
- Provide preliminary recommendations concerning suitable types of foundation and floor slab systems for the proposed remainder (not consisting of Phase 1) of the development.
- Provide recommendations for earthwork and site grading.

3.0 FIELD OPERATIONS

The subsurface conditions were evaluated by performing fifty-five out of the planned sixty-one borings, which were drilled on July 13 through July 16 of 2020. Five of the preliminary borings could not be drilled due to access issues but in our opinion enough borings were completed for preliminary information. The approximate boring locations are provided on the Plan of Borings (Figure 1) in the Appendix. The results of the field exploration program are presented on the Boring Logs (Figures 2 through 56) in the Appendix. A Soil Classification Chart containing the keys to symbols and the description of terms used on the boring logs are presented on Figure 57.

A truck-mounted drilling rig with continuous flight augers were used to advance the borings. Soils were sampled using steel tubes. The samples were extruded in the field, logged, sealed, and packaged to preserve their in-situ moisture content and reduce disturbance during transportation to the laboratory. The load carrying capacity of the limestone encountered in most of the borings was evaluated in the field by performance of the Texas Department of Transportation's (TxDOT) Cone Penetration Test. Drilling and sampling were performed in general accordance with applicable ASTM procedures.

4.0 LABORATORY TESTING

The Boring Logs were reviewed by a geotechnical engineer who assigned soil samples for testing. Tests were performed in the laboratory by technicians working under the direction of the engineer. Testing was performed in general accordance with applicable ASTM procedures.

Liquid and Plastic Limit tests (ASTM D 4318) were performed on samples of the cohesive soils. These tests were used in conjunction with moisture content tests (ASTM D 2216) for classification and estimating their volume change potential. Absorption swell tests were performed on selected samples of the cohesive materials to quantitatively evaluate volume change potential at the in-situ moisture levels. Percent passing the No. 200 Sieve tests were performed on selected samples of the cohesive soil to determine the percentage finer than 0.075 mm to aid in classification. Hand penetrometer and unconfined compression tests were performed on the soils to evaluate consistency and strength.

The results of the laboratory tests are presented on the Boring Logs in the Appendix. Results of the swell tests are presented in Table 1.

TABLE 1 - SUMMARY OF SWELL TESTS

Boring	Depth (feet)	LL	PI	Initial Moisture (%)	Final Moisture (%)	Surcharge (psf)	Swell (%)
1	8-10	63	39	21.4	30.1	1125	0.5
2	6-8	56	35	20.6	25.3	875	0
3	4-6	84	50	37.8	39.2	625	0.2
4	6-8	63	36	23.7	27.4	875	0.6
5	8-10	67	43	23.6	27.0	1125	1.0
6	2-4	66	40	42.7	44.4	375	0.2
7	4-6	79	50	38.1	40.0	625	0.5
8	4-6	84	56	36.6	38.9	625	0.7
9	0-2	78	49	40.9	42.2	125	1.2
10	6-8	88	60	40.1	42.8	875	0
11	8-10	61	38	22.6	25.6	1125	0.2
12	6-8	68	43	28.3	29.5	875	0
13	2-4	52	30	21.0	26.1	375	1.1
14	2-4	55	33	22.2	25.2	375	0.8
15	4-6	60	37	23.9	25.6	625	0.1
16	6-8	59	33	21.8	30.7	875	1.1
17	8-10	51	29	22.9	24.9	1125	0.3
18	6-8	63	40	27.7	28.7	875	0
19	4-6	57	32	28.5	29.9	625	0
20	2-4	73	40	34.6	36.1	375	0.6
21	8-10	63	38	25.0	29.2	1125	0.4
22	2-4	81	46	44.4	46.3	375	0.3
23	4-6	61	35	39.7	41.4	625	0
24	6-8	61	38	24.8	27.0	875	0.2
25	0-2	57	32	28.4	30.3	125	1.6
26	2-4	67	43	19.6	24.4	375	0.5

TABLE 1 - SUMMARY OF SWELL TESTS

Boring	Depth (feet)	LL	PI	Initial Moisture (%)	Final Moisture (%)	Surcharge (psf)	Swell (%)
27	4 – 6	55	33	27.2	30.3	625	0
28	6 – 8	57	34	28.5	31.0	875	0
29	4 – 6	76	43	39.2	40.2	625	0.3
30	6 – 8	64	38	22.8	25.3	875	0.6
31	4 – 6	56	32	24.2	26.8	625	0.1
32	6 – 8	58	32	24.4	28.2	875	0.8
33	8 – 10	85	55	29.5	26.1	375	1.1
34	6 – 8	74	47	34.1	38.0	875	0.6
35	8 – 10	70	44	28.9	31.2	1125	0
36	2 – 4	52	32	21.3	25.5	375	0.2
37	4 – 6	75	47	25.6	27.9	625	0.6
38	6 – 8	64	36	25.5	28.2	875	0.3
39	0 – 2	68	37	31.7	36.8	125	2.2
40	2 – 4	71	39	36.6	40.4	375	0.7
41	8 – 10	57	32	26.7	30.9	1125	0.2

5.0 SITE SUBSURFACE CONDITIONS

The conditions encountered at each boring location are depicted on the Boring Logs in the Appendix. Descriptions of each strata with its approximated depth and thickness are provided. The depths reported on each log refer to the depth from the existing ground surface at the time the boring was performed. A brief description of the variable stratigraphy indicated by the borings is presented below.

Dark brown, brown, gray and tan clay, shaley clay and some silty clay soils, with occasional limestone layers, were encountered at the surface of Borings 1 through 48, 54 and 56 through 61. The clay soils extended to depths of 17, 8, 11, 12, 12, 17, 13, 13, 17, 18½, 4, 19, 18, 17, 19, 17, 17, 19, 19, 17, 19, 4, 5, 8, 12, 12, 19, 18, 19, 19, 18, 17, 18, 11, 12, 13, 16, 13, 11½, 16, 12, 13½, 13½ and 12 feet below existing grades in Borings 1 through 9, 12 through 33, 36, 37, 38, 42, 45, 46, 47, 48, 54, 56, 57, 59, 60 and 61, respectively, and to termination depths of about 20 feet in Borings 10, 11, 34, 35, 39, 40, 41, 43, 44 and 58. The soils had Liquid Limits (LL) of 49 to

88 percent and Plasticity Indices (PI) of 29 to 50. The variable soils classified mostly CH and occasionally CL according to the Unified Soil Classification System (USCS) and were stiff to hard in consistency and generally moist.

Tan and some gray limestone with clay layers with variable harder and softer layers were next encountered in Borings 1 through 8, 13, 25, 26, 27, 28, 47, 48, 56 and 57. The tan limestone with clay layers extended to depths of about 19½, 13, 14, 18, 18, 18, 17, 18, 18, 17 and 13 feet below existing grades in Borings 1, 4, 5, 7, 8, 13, 26, 27, 47, 48, 56 and 57, respectively, and to termination depths of about 20 feet in Borings 2, 3, 6, 25 and 28.

Gray limestone with shale layers was next encountered in Borings 1, 4, 5, 12 through 24, 26, 27, 29, 30, 31, 32, 33, 36, 37, 38, 42, 45, 46, 47, 48, 54, 56, 59, 60 and 61.

The soils encountered in the borings above the bedrock at this site are considered to be active to highly active with respect to moisture-induced volume changes. The soils encountered in the borings have shrink and swell potential with seasonal moisture changes within the active zone. The active zone is variable in some of the boring's depth due to shallower bedrock.

6.0 GROUNDWATER

The borings were advanced in the dry using auger-drilling techniques. This process allows relatively accurate short-term observations of groundwater while drilling. Seepage was observed while drilling at depths of about 14, 14, 12, 7, 11, 8, 18 and 15 feet below existing grades in Borings 6, 10, 21, 27 (trace), 28, 33, 34 and 58, respectively. Groundwater was measured at depths of about 10, 18, 19, 10, 19, 18 and 13 feet below existing grades in Borings 6, 10, 21, 28, 33, 34 and 58, respectively, after the completion of drilling.

Seepage was not observed in Borings 1 through 5, 7, 8, 9, 11 through 20, 22 through 26, 29 through 32, 35 through 48, 54, 56, 57, 59, 60 and 61 while drilling and these borings along with Boring 27 were observed to be dry after completion of drilling.

Groundwater levels will seasonally fluctuate due to variations in the amount of precipitation, evaporation and surface water runoff. Groundwater, like observed in some of the borings can occur above and within the limestone particularly during wet annual/seasonal cycles. Intermittent surface seepage can occur in areas where cuts or natural grades approach the top of the limestone. In addition, groundwater conditions may change due to landscape irrigation, tree root demand and from leaking buried utilities.

7.0 ANALYSIS AND RECOMMENDATIONS

If some differential foundation movements can be tolerated, area residential structures can use post-tensioned or conventionally reinforced, stiffened ground supported foundation systems (Slab-On-Grade) for moisture modified soil conditions at this site.

Recommendations for ground supported foundations are provided below.

7.1 Foundation Recommendations

Lightly loaded ground supported foundation systems placed on site subgrades will be subject to some movement as a result of moisture-induced volume changes in the active soils. The more clayey soils expand (heave) with increases in moisture and contract (shrink) with decreases in moisture. The movement typically occurs as post construction heave.

The potential magnitude of the moisture-induced movements is rather indeterminate. It is influenced by the soil properties, overburden pressures, thickness of clay strata and to a great extent by soil moisture levels at the time of construction. The greatest potential for post-construction movement occurs when the soils are in dry condition at the time of construction.

Site grading can affect the potential movements. For example, the use of clays as fill material will increase the potential movements by increasing the total clay thickness.

The estimated magnitude of post-construction movements for the lots near finished current grades for soils at a **dry condition** is on the order of **4 to 6½ inches**. Preliminary borings indicate the accessible areas outside of Phase 1 are similar to Phase 1

Moisture and swell test data indicate the upper 10 feet of the soils observed in the Phase 1 borings were at a favorable moisture conditions at the time of drilling with current Potential Vertical Rise (PVR) values on the order of 4½ inches or less. We understand earthwork operation for the project will commence prior to December 2020. If earthwork commences after December 2020, this office should be notified in order to revise our recommendations.

It is estimated that slab movements of approximately **4½ inches**, or less, can generally be obtained by elevating the moisture contents (Moisture Conditioning) of the existing soils and/or fills soils. A large portion of the Phase 1 site will consist of significant fills.

The starting elevation (to be filled) should be scarified to a minimum depth of 12 inches. The scarified soils should be uniformly compacted to a minimum of 94 percent of ASTM D 698 at a minimum of +4 percent (Moisture conditioned) above the soil's optimum moisture determined by that test. **All Phase 1 pads** should be covered with **poly sheeting** as soon as possible after completion of the moisture-conditioning process to prevent drying of the subgrade. The poly should extend to outermost edge pad lines and the poly sheeting be covered with a minimum of 6 inches and a maximum of 12 inches of soil for protection.

For the remainder of the Phase 1 pads (those not listed in the above paragraph) with significant fills over about 1½ feet, we recommend that subgrade in areas to be filled should be stripped of vegetation and any debris present. The starting elevation (to be filled) should be scarified to a minimum depth of 12 inches. The scarified soils should have enough water added to allow for uniformly compacted to a minimum of 94 percent of ASTM D 698 at a minimum of +4 percent

(Moisture Conditioned) above the soil's optimum moisture determined by that test. Native CH clay fill materials should then be spread in loose lifts, less than 9 inches thick and uniformly compacted to a minimum of 94 percent of ASTM D 698 at a minimum of +4 percent above the soil's optimum moisture determined by that test to the bottom of the poly. The moisture modified pads should be covered with poly sheeting as soon as possible after completion of the moisture-conditioning process to prevent drying of the subgrade. The poly should extend to outermost edge pad lines and the poly sheeting be covered with a minimum of 6 inches and a maximum of 12 inches of soil for protection.

The PVR estimates for the borings were estimated using the information from the testing program and are based on the Texas Highway Department's Method 124-E and our general knowledge of the area. PVR calculations are one-dimensional representations of the Potential Vertical Movements (PVM) (i.e. – swell is only considered). Shrinkage due to soil desiccation of near the same magnitude can also occur. PVR calculations are estimates based on assumptions that the area around the structures will be well drained (Properly Graded), landscape beds are not over-watered, and utility leaks are promptly repaired.

7.1.1 Ground-Supported Stiffened Slabs

Post-tensioned, ground-supported stiffened slab foundation systems must be designed to resist and/or tolerate potential vertical movements due to volume changes in the site soils without inducing unacceptable distress in the foundation or structural elements. These movements will typically occur as differential movement between the periphery and interior of the slab-on-grade systems.

PVR calculations are estimates based on assumptions that the area around the structures will be well drained (Properly Graded), landscape beds are not over-watered, and utility leaks are promptly repaired. Long term utility leaks can result in soil movements in excess of those estimated above. The following parameters assume that the subgrade beneath the slabs should meet the requirements discussed in the Earthwork/Site Grading section of this report.

Adjacent flatwork such as sidewalks and pavements should be designed in such a way as to allow for differential movements between flatwork and the exterior perimeter of the residence foundations.

Design parameters were developed for differential swell (y_m) using the Post-Tensioning Institute's (PTI) slabs-on-ground (Third Edition) design method and the VOLFLO 1.5 computer program. The final PTI design criteria based upon moisture/current condition soils are presented below in Table 2.

TABLE 2 – PTI DESIGN CRITERIA
Phase 1 Lots (and for preliminary information on remainder)

Based on Moisture Conditioned/Current Condition Soils w/poly as described in Section 7.1 (PTI 3 rd Ed.) Borings 1 through 24	Center Lift	Edge Lift
Edge Moisture Variation (em)	7.2 ft.	4.5 ft.
Differential Swell (Ym)	1.7 in.	2.2 in.
Potential Vertical Rise (PVR)	About 4½ inches, or less	

Site grading can greatly affect the movements discussed above. The values presented assume final grades will be within -2 to +7 feet of current grades and fill soils will be similar to on-site materials.

The grade beams of the slab-on-grade foundation system should exert a maximum bearing pressure of 1,500 PSF on existing or properly compacted fill soils. These beams should extend a minimum of 12 inches below finished grade.

A properly engineered and constructed vapor retarder (5 mil minimum) should be provided beneath slab areas, which will be covered, carpeted, or sealed.

7.2 Utilities

Limestone should be anticipated for deeper utility excavations. Care should be taken that utility cuts are not left open for extended periods, and that the cuts are properly backfilled. Backfilling should be accomplished with properly compacted on-site soils, rather than granular materials. A positive cut-off at the building line is recommended to help prevent water from migrating in the utility trench backfill.

7.3 Earthwork/Site Grading

Site grading can greatly affect the potential vertical movements as discussed above. Fills constructed using clay soils can increase the potential movements. The on-site soils may be used as fill. Imported (select) fill to achieve finished grade beneath a ground supported foundation should have a Liquid Limit less than 35. The subgrade in areas to be filled and/or under residence structure, slopes and pavements should be stripped of vegetation and any debris present.

The subgrade beneath fills should be scarified to a minimum depth of 12 inches and uniformly compacted to a minimum of 94 percent of ASTM D 698 at a minimum of +4 percent (moisture conditioned) above the soil's optimum moisture determined by that test. Native CH clay fill materials should then be spread in loose lifts, less than 9 inches thick and uniformly compacted to a minimum of 94 percent of ASTM D 698 at a minimum of +4 percent above the soil's optimum moisture determined by that test. Imported (select) fill if placed by the home builder should be uniformly compacted to a minimum of 95 percent of ASTM D 698 at or above the soil's optimum moisture content.

If trees are removed within the perimeter of the house pads, the soil should be excavated to a depth beneath the root bulb and replaced to the same criteria presented above. The pads should be proof rolled with heavy pneumatic equipment. Any soft or pumping areas should be excavated to a firm subgrade and properly backfilled. It should then be scarified to a minimum depth of 6 inches and uniformly compacted to the same criteria presented above. If tree bulbs are not removed, the rooted areas may be in a desiccated state and the potential for heave may exist as moisture levels increase over time.

7.4 Site Drainage

All grades must be adjusted to provide positive drainage away from the residence structures. Water permitted to pond near or adjacent to the perimeter of residences can result in soil movements, which exceed those discussed in this report. Open ground should preferably be sloped at a minimum of 4 percent grade for at least 5 feet, or as much as possible away from the perimeter of the house foundations.

Flatwork will be subject to post-construction movement. Maximum grades practical should be used for flatwork to prevent areas where water can pond. In addition, allowances in final grades should take into consideration post-construction movement of flatwork, particularly if such movement would be critical. Where paving or flatwork abuts the structures, care should be taken that the joint is properly sealed and maintained to prevent the infiltration of surface water.

Planters located adjacent to the structures should be designed to drain. Sprinkler mains should be located a minimum of five feet away or as much as possible from the building lines. If heads must be located adjacent to the structures, then service lines off the main should be provided. The homeowners should be advised by the home builders that it is important to maintain moist ground conditions during prolonged periods of dry weather.

Newly planted trees and deep-rooted shrubs should be planted no closer to the structures than $\frac{1}{2}$ their mature height to reduce the potential for foundation settlement caused by moisture absorption of the root systems. If closer tree plantings are required a root barrier system is recommended. Roof drains should be extended a minimum of 5 feet away from the structures for grades less than 4 percent.

7.5 Pavement Recommendations

7.5.1 Pavement Subgrade Preparation

Based on our experience with the soils encountered in this geologic formation, the soils probably do not have soluble sulfates in sufficient concentration for significant sulfate induced heave in a lime modified subgrade. EWI recommends that soluble soil samples be obtained on 300 foot intervals after rough grades have been established on the roadways and after utilities have been placed to verify sulfate concentrations of 3,000 ppm, or less.

Subgrade soils will primarily consist of clay soils. The clay soils are subject to loss in support value with the moisture increases, which can occur beneath pavements. The soils can be modified with lime to improve and maintain their support value.

For budget purposes, a minimum of eight percent lime, by dry weight, should be considered for used beneath pavement systems. The actual lime placement application should be determined by lime series testing after rough grades have been established. Flexible base can be considered as an alternative to lime modification if the soils indicate high soluble sulfate contents. The lime should be thoroughly mixed and blended with the top six inches of the subgrade. Lime modification should extend a minimum of one foot beyond the edge of the pavement.

The lime modified subgrade should then be uniformly compacted to a minimum of 95 percent of ASTM D698 near, -1 to +3 percent, the optimum moisture content determined by that test. It should be protected and maintained in a moist condition until the pavement is placed.

A minimum of five inches of concrete is recommended for light duty automobile and occasional truck traffic. The Portland Cement Concrete (PCC) thickness should be increased to 6 inches for heavier use automobile traffic and 7 or more inches in areas subject to frequent truck traffic. The concrete should have a minimum 28-day compressive strength of 3,600 psi. It should contain a minimum of 5±2 percent entrained air. As a minimum, the section should be reinforced with No. 3 bars on 18-inch centers in both directions.

The pavement will be subject to movements due to volume changes in the site soils. Flat grades should be avoided with positive drainage provided away from the pavement edges.

Backfilling of curbs should be accomplished as soon as practical to prevent ponding of water.

7.5.2 Pavement Movements

The soils encountered in the borings are considered to be highly active and subject to volume changes with fluctuations in their moisture content. The clay soils expand (heave) with increases in moisture and contract (shrink) with decreases in moisture. The movement at the center of the pavement typically occurs as post construction heave. At the edge of the pavement, both shrinkage and swell could occur due to seasonal moisture fluctuations in response to rainfall and evapotranspiration.

The potential magnitude of the moisture-induced movements is rather indeterminate. It is influenced by the soil properties, surface drainage, overburden pressures and to a great extent by soil moisture levels at the time of construction. The greatest potential for post-construction movement occurs when the soils are in dry condition at the time of construction. Based on TxDOT Test Method 124-E, potential active soil movements, to the boring depths evaluated, are estimated to range up to around 6 inches for the upper 10 feet of the soil profile if at a dry condition.

Pavements should be sloped to provide rapid drainage of surface water. Water allowed to pond on or adjacent to the pavements or behind curbs or planting areas could saturate the subgrade and contribute to premature pavement deterioration. A minimum grade of 0.5% and preferably 1% is recommended for all pavements.

8.0 LIMITATIONS

The professional services performed for the preparation of this geotechnical report were accomplished in accordance with current and locally accepted geotechnical engineering principles and practices. The recommendations presented in this report are based upon the data obtained from the borings at the indicated locations and/or from other information discussed in this report. The subsurface conditions occurring between borings and across the site, or due to seasonal/annual climatic cycles may vary from those encountered in the borings. The nature of these variations may not become evident until during or after construction. Should subsurface conditions varying significantly from those described herein, EWI should be immediately notified to evaluate the effects on these recommendations and so supplemental recommendations can be provided. EWI's services should also be retained for the final review of design plans/specifications so comments can be made regarding interpretation of the geotechnical recommendations provided in this report, or to provide additional borings if soil variation is encountered during foundation placement.

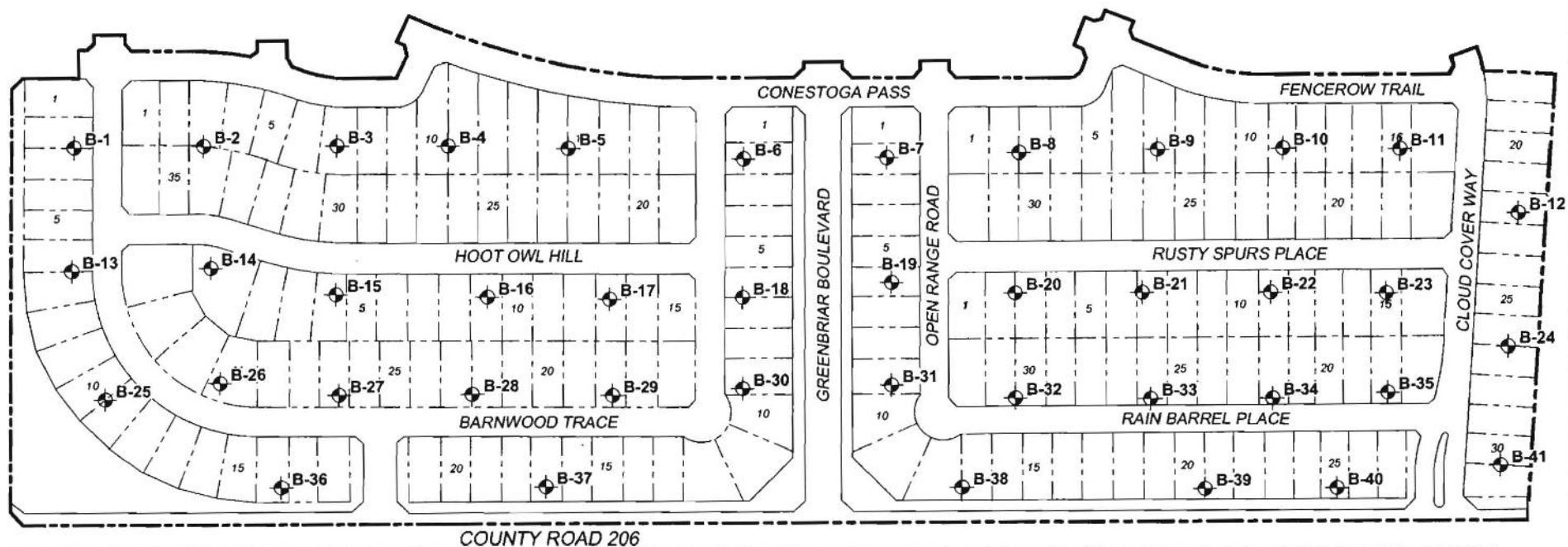
The recommendations provided in this report were prepared for the exclusive use of our client. No warranties, expressed or implied, are intended or made. The information and recommendations provided in this report are applicable only for the design of the types of structure(s) described in the Site and Project Information section of this report and should not be used for any other structures, locations or for any other purposes. We should not be held responsible for the conclusions, opinions or recommendations made by others based upon the information submitted in this report. If changes to the design and/or location of this project as outlined in this report are planned, the recommendations provided in this report shall not be considered valid unless EWI reviews these changes and either verifies or amends this report in writing. Construction issues such as site safety support of excavations and dewatering procedures are the responsibility of others.

The scope of services for this report does not include any environmental or biological assessments either specifically or implied. If the owner is concerned about the potential mold, fungi, bacteria, identification of contaminants or hazardous materials and conditions, etc., additional studies should be undertaken.

EWI's capabilities include a full range of construction material testing and observation services. A qualified testing firm should be retained to provide testing and observation during excavation, grading, foundation and construction phases of this project.

We will retain the samples recovered from the borings on this project for a period of 30 days subsequent to the submittal date printed on this report. After the 30-day period, the samples will be discarded unless otherwise notified by the owner in writing.

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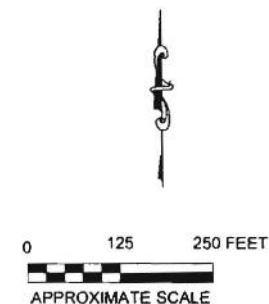


LEGEND:



Boring Location

Approximate Site Boundary



Ellerbee Walczak, Inc.

EWI Project No. LD205681

PLAN OF BORINGS

Weston Trails
Weston, Texas

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:




DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 2.25		38	79	33	46	99
-		Tan clay	ST	P = 4.25						
-		Tan and gray clay	ST	P = 4.5+		21	57	22	35	
5		Tan and gray shaley clay	ST	P = 4.5+						
-			ST	P = 4.5+		21	63	24	39	
10										
-		Tan shaley clay								
-			ST	P = 4.5+		26	72	31	41	
15										
-		Tan limestone - with clay layers	AU							
-		Gray limestone	THD	T = 3.5"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US GDT 8/14/20

FIGURE 2

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 1.5						
1		Brown clay	ST	P = 2.5		38	82	34	48	97
2		Tan clay	ST	P = 4.5+						
3		Tan and gray shaley clay	ST	P = 4.5		21	56	21	35	
4		Tan and gray limestone - with clay layers	THD	T = 5.5"/100						
5			AU							
6			THD	T = 4"/100						
7										
8			AU							
9			THD	T = 3.5"/100						
10										
11			AU							
12			THD	T = 3"/100						
13										
14			AU							
15			THD							
16										
17			AU							
18			THD							
19										
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 3

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-3

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger




GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 2.25		45	83	32	51	
-		Brown clay	ST	P = 2.0						
-										
5			ST	P = 2.5		38	84	34	50	
-		Tan and gray clay	ST	P = 4.5+						
-		Tan and gray shaley clay	ST	P = 4.5+		21	56	22	34	
10										
-		Tan limestone - with clay layers								
-			AU							
15			THD	T = 3.75"/100						
-										
-			AU							
20			THD	T = 3.25"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 4

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay	ST	P = 3.75						
1			ST	P = 4.25		27	69	25	44	
2										
3										
4		Tan clay	ST	P = 4.5+						
5			ST	P = 4.5+		24	63	27	36	
6										
7										
8		Tan shaley clay	ST	P = 4.5+						
9										
10										
11										
12		Tan limestone - with clay layers								
13		Gray limestone - with shale layers	AU							
14			THD	T = 3.25"/100						
15										
16										
17										
18			AU							
19			THD	T = 2.25"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US GDT 8/14/20

FIGURE 5

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
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Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-5

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:



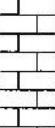
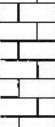
DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 2.5		40	80	31	49	
-			ST	P = 2.25						
5			ST	P = 2.75		39				
-		Tan clay	ST	P = 4.5+						
-			ST	P = 4.5+		24	67	24	43	
10		Tan limestone - with clay layers	AU							
-			THD	T = 3.5"/100						
15		Gray limestone - with shale layers	AU							
-			THD	T = 2.25"/100						
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 6

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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 14.0 ft

▽ AT END OF DRILLING 10.0 ft

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay								
1			ST	P = 1.5						
2			ST	P = 2.5		43	66	26	40	
3										
4			ST	P = 2.25						
5										
6			ST	P = 2.0		40	82	29	53	
7										
8		Tan and gray clay	ST	P = 3.0						
9										
10										
11										
12		Tan shaley clay								
13			ST	P = 4.5+		26	71	29	42	
14										
15										
16										
17										
18		Tan limestone - with clay layers	AU							
19			THD	T = 3.75"/100						
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 7

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:





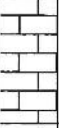
DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 1.75		41	77	32	45	
-			ST	P = 2.0						
-										
5		Brown clay - with calcareous particles	ST	P = 2.75		38	79	29	50	
-										
-		Tan clay	ST	P = 3.0						
-										
-			ST	P = 4.5+		30	67	22	45	
10										
-										
-										
-										
-										
15		Tan limestone - with clay layers	AU							
-			THD	T = 7.5"/100						
-										
-		Gray limestone - with shale layers	AU							
20			THD	T = 2"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 8

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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:



DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. ROD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 4.5						
-		Brown clay	ST	P = 2.0		42	84	27	57	
5			ST	P = 2.25		37	84	28	56	
-		Tan clay	ST	P = 4.5+						
-			ST	P = 4.5+						
10										
-		Tan limestone - with clay layers	AU							
15			THD	T = 6.75"/100						
-										
-		Gray limestone - with shale layers	AU							
20			THD	T = 2.5"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 9

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger





GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 2.0		41	78	29	49	
-		Brown clay	ST	P = 2.0						
-										
5			ST	P = 2.5		42	85	28	57	
-		Tan clay	ST	P = 3.25						
-			ST	P = 4.5+		31	80	27	53	
10										
-		Tan and gray shaley clay	ST	P = 4.5+						
-										
15										
-		Gray limestone - with shale layers	AU							
-			THD	T = 1.75"/100						
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 10

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 14.0 ft

▼ AT END OF DRILLING 18.0 ft

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)
0		Dark brown clay	ST	P = 1.75						
1										
2		Brown clay	ST	P = 2.0		39	82	28	54	
3										
4										
5			ST	P = 2.0						
6										
7										
8			ST	P = 2.25		40	88	28	60	
9										
10			ST	P = 2.0						
11										
12		Tan and gray clay								
13										
14			ST	P = 3.0						
15										
16										
17										
18		Gray and tan shaley clay								
19			ST	P = 4.5+		24	68	27	41	
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 11

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 1.5		40	81	29	52	
1										
2		Brown clay	ST	P = 2.25						
3										
4										
5			ST	P = 2.25		35	80	26	54	
6										
7		Tan clay	ST	P = 4.5+						
8										
9			ST	P = 4.5+		23	61	23	38	
10										
11										
12		Tan and gray shaley clay								
13			ST	P = 4.5+		30	61	26	35	
14										
15										
16										
17										
18		Gray and tan shaley clay	ST	P = 4.5+						
19										
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 12

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
		Brown clay	ST	P = 4.25						
			ST	P = 2.5		37	79	31	48	
5			ST	P = 3.0						
		Tan clay	ST	P = 4.5+		28	68	25	43	
			ST	P = 4.5+						
10										
		Tan and gray shaley clay	ST	P = 3.0		24	76	30	46	
15										
		Gray limestone - with shale layers	AU							
20			THD	T = 2.75"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 13

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:





DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 3.0		31	70	29	41	
-		Tan clay	ST	P = 4.5+		21	52	22	30	
5		Tan limestone - with clay layers	THD	T = 6"/100						
-										
-										
-			AU							
10			THD	T = 5"/100						
-										
-			AU							
15			THD	T = 7"/100						
-										
-			AU							
-		Gray limestone - with shale layers								
20			THD	T = 2.5"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 14

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay	ST	P = 3.5						
1										
2										
3		Tan clay	ST	P = 4.5+		22	55	22	33	
4										
5			ST	P = 4.5+						
6										
7			ST	P = 4.5+		20	56	22	34	
8										
9			SS	N = 58						
10										
11										
12										
13										
14			ST	P = 4.5+		25	64	25	39	
15										
16										
17										
18										
19										
20		Gray limestone	THD	T = 1.5"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 15

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/Sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay	ST	P = 1.5		41	78	31	47	
1			ST	P = 2.5						
2										
3										
4										
5		Tan clay	ST	P = 4.5+		24	60	23	37	
6			ST	P = 4.5+						
7										
8			ST	P = 4.5+						
9										
10			ST	P = 4.5+		23	61	27	34	
11										
12										
13			ST	P = 4.5+						
14										
15										
16										
17										
18										
19		Gray limestone - with shale layers	AU							
20			THD	T = 2.25"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 16

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-16

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay								
1			ST	P = 1.5						
2			ST	P = 4.5		37	78	37	41	
3										
4										
5		Tan clay	ST	P = 4.5+						
6										
7			ST	P = 4.5+		22	59	26	33	
8										
9			ST	P = 4.5+						
10										
11										
12										
13			ST	P = 4.5+						
14										
15										
16										
17										
18										
19		Gray limestone - with shale layers	AU							
20			THD	T = 1.25"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 17

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Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:



DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
		Brown clay	ST	P = 2.75						
			ST	P = 1.5		41	84	31	53	
5			ST	P = 2.25						
		Tan clay	ST	P = 3.25		28	63	23	40	
			ST	P = 4.5+						
10										
		Gray limestone - with shale layers	ST	P = 4.5+						
15			AU							
			THD	T = 2"/100						
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US.GDT 8/14/20

FIGURE 19

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
1		Brown clay	ST	P = 2.0		34	80	33	47	
2			ST	P = 2.0						
3										
4										
5		Tan clay	ST	P = 4.5+		28	57	25	32	
6			ST	P = 4.5+						
7										
8			ST	P = 4.5+						
9										
10										
11										
12										
13										
14			ST	P = 4.5+		40	61	23	38	
15										
16										
17										
18										
19		Gray limestone - with shale layers	AU							
20			THD	T = 1.25"/100						
		Bottom of hole at 20 feet.								

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FIGURE 20

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay								
1			ST	P = 1.25						
2			ST	P = 2.0		35	73	33	40	
3										
4			ST	P = 4.5+						
5		Tan clay								
6			ST	P = 4.5+		23	63	27	36	
7			ST	P = 4.5+						
8										
9			ST	P = 4.5+						
10										
11										
12										
13			ST	P = 4.5+		22	62	28	34	
14										
15										
16										
17										
18										
19		Gray limestone - with shale layers	AU							
20			THD	T = 1.5"/100						
		Bottom of hole at 20 feet.								

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FIGURE 21

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 12.0 ft

▽ AT END OF DRILLING 19.0 ft

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
1		Brown clay	ST	P = 1.5		40	75	31	44	98
2			ST	P = 1.5						
3										
4			ST	P = 1.75		34	75	28	47	
5										
6		Tan clay	ST	P = 4.5+						
7										
8			ST	P = 4.5+		25	63	25	38	
9										
10										
11										
12										
13			ST	P = 4.5+						
14										
15										
16			AU							
17										
18										
19										
20		Gray limestone	THD	T = 2.25"/100						
21		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 22

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay								
1			ST	P = 3.5						
2										
3			ST	P = 1.5		44	81	35	46	
4										
5			ST	P = 2.0						
6										
7			ST	P = 2.5		37	80	33	47	
8										
9		Tan clay	ST	P = 3.5						
10										
11										
12										
13										
14			ST	P = 4.5+						
15										
16										
17										
18										
19			AU							
20		Gray limestone	THD	T = 1"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 23

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger






GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES _____

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q _u : Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
1		Brown clay	ST	P = 1.5		32				
2			ST	P = 1.75						
3										
4			ST	P = 2.0		40	61	26	35	
5										
6		Tan clay	ST	P = 1.75						
7										
8			ST	P = 4.5+		26	68	27	41	
9										
10										
11		Gray limestone - with shale layers								
12										
13			ST	P = 4.5+						
14										
15										
16		Gray limestone - with shale layers	AU							
17										
18			THD	T = 1.5"/100						
19		Gray limestone - with shale layers								
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 24

Ellerbee-Walczak, Inc.
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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 1.75						
1										
2		Brown clay	ST	P = 2.25		33	72	29	43	
3										
4										
5		Tan clay	ST	P = 3.75						
6										
7										
8			ST	P = 4.0		25	61	23	38	
9										
10			ST	P = 4.5+						
11										
12										
13										
14			ST	P = 4.5						
15										
16										
17										
18										
19										
20		Gray limestone	THD	T = 2"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 25

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay								
-		Tan clay	ST	P = 4.5+		28	57	25	32	
-			ST	P = 4.5+						
5		Tan limestone - with clay layers	THD	T = 4.75"/100						
-										
-			AU							
10			THD	T = 8"/100						
-										
-			AU							
15			THD	T = 6.75"/100						
-										
-			AU							
20			THD	T = 3"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ CINT US GDT 8/14/20

FIGURE 26

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger



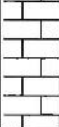

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q _u : Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 2.5						
-		Tan clay	ST	P = 4.5+		20	67	24	43	
-			ST	P = 4.5+						
5										
-		Tan limestone - with clay layers	THD							
-										
-			AU							
-			THD	T = 10"/100						
-										
-			AU							
10										
-			THD	T = 7.25"/100						
-										
-			AU							
-		Gray limestone - with shale layers	THD	T = 5.25"/100						
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 27

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 7.0 ft

AT END OF DRILLING Dry

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 1.5		38	76	33	43	
		Brown clay	ST	P = 2.0						
5		Tan silty clay	ST	P = 4.5+		27	55	22	33	
		Tan limestone - with clay layers	THD	T = 12"/46						
10			AU							
			THD	T = 9"/100						
15		Gray limestone - with shale layers	AU							
			THD	T = 3.25"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT U.S.GDT 8/14/20

FIGURE 28

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FIGURE 29

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/Sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay								
1			ST	P = 1.0		44				
2			ST	P = 1.25						
3			ST	P = 1.5		39	76	33	43	
4		Light brown and tan clay	ST	P = 2.25		26	51	19	32	
5		Tan clay	ST	P = 2.5						
6										
7										
8										
9										
10										
11		Gray limestone - with shale layers	ST	P = 4.5+						
12										
13										
14										
15										
16										
17										
18										
19			AU							
20			THD	T = 1.25"/100						
21		Bottom of hole at 20 feet.								

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FIGURE 30

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay								
-		Brown clay	ST	P = 1.5						
-			ST	P = 2.0		41	75	30	45	
5		Tan clay	ST	P = 4.5+						
-			ST	P = 4.5+		23	64	26	38	
-			ST	P = 4.5+						
10										
-			ST	P = 4.5+						
15										
-			AU							
20		Gray limestone	THD	T = 0.75"/100						
		Bottom of hole at 20 feet.								

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FIGURE 31

CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

AFTER DRILLING ---

NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
1		Brown clay	ST	P = 2.25		41	82	36	46	
2			ST	P = 2.5						
3										
4										
5		Tan clay	ST	P = 4.5+		24	56	24	32	
6										
7			ST	P = 4.5+						
8										
9			ST	P = 4.5+		23	64	30	34	
10										
11										
12										
13										
14										
15			ST	P = 4.5+						
16										
17										
18		Gray limestone	AU							
19			THD	T = 1.25"/100						
20		Bottom of hole at 20 feet.								

FIGURE 32

Ellerbee-Walczak, Inc.
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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 2.5						
-										
-		Brown clay	ST	P = 3.75		29	68	30	38	
-		Tan clay								
-										
5			ST	P = 4.5+						
-										
-			ST	P = 4.5+		24	58	26	32	
-										
-			ST	P = 4.5+						
10										
-										
-			ST	P = 4.5+						
-										
-										
15										
-			ST	P = 4.5+						
-										
-										
-			AU							
-										
-										
20		Gray limestone	THD	T = 1.0"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 33

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-33

PAGE 1 OF 1

CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20 COMPLETED 7/16/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 8.0 ft

▽ AT END OF DRILLING 19.0 ft

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/Sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay								
-		Brown clay	ST	P = 2.0		36	72	29	43	98
-			ST	P = 1.25						
5			ST	P = 2.75		34	73	25	48	
-		Tan clay	ST	P = 4.5+						
-			ST	P = 4.5+		29	85	30	55	
10										
-			ST	P = 4.5+						
15										
-			AU							
-		Gray limestone - with shale layers	THD	T = 3"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 34

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-34

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/16/20

COMPLETED 7/16/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

▽ AT TIME OF DRILLING 18.0 ft

▼ AT END OF DRILLING 18.0 ft

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 1.75						
1										
2			ST	P = 2.0		38	75	28	47	
3										
4										
5		Brown clay	ST	P = 2.0						
6										
7			ST	P = 2.0		34	74	27	47	
8										
9		Brown and tan clay	ST	P = 3.0						
10										
11										
12		Tan clay								
13										
14			ST	P = 4.5+						
15										
16										
17										
18										
19			ST	P = 4.5+		38	82	34	48	
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 35

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

BORING NUMBER B-35

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
1		Brown clay	ST	P = 2.0		38	78	31	47	
2			ST	P = 1.75						
3										
4										
5			ST	P = 1.25		41				
6										
7		Tan clay	ST	P = 4.5+						
8										
9			ST	P = 4.5+		29	70	26	44	
10										
11		Tan and gray shaley clay								
12										
13			ST	P = 4.5+		24	70	29	41	
14										
15										
16										
17										
18			ST	P = 4.5+						
19										
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US GDT 8/14/20

FIGURE 36

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:


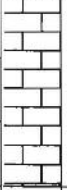
DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 2.0		34	72	28	44	
-			ST	P = 1.5						
5		Tan clay	ST	P = 4.5+		26	75	28	47	
-			ST	P = 4.5+						
-			ST	P = 4.5+		21				
10										
-		Gray limestone - with shale layers	ST	P = 4.5+						
15										
-			AU							
-			THD	T = 1.25"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 38

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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:


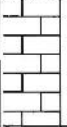
DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 1.75						
-			ST	P = 1.75		40	80	30	50	
-		Tan clay	ST	P = 4.5+						
5			ST	P = 4.5+		26	64	28	36	
-			ST	P = 4.5+						
-			ST	P = 4.5+						
10										
-		Gray limestone	ST	P = 4.5+						
15			AU							
-			THD	T = 1.25"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 39

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20 COMPLETED 7/15/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 3.0		32	68	31	37	
		Brown clay	ST	P = 1.5						
5			ST	P = 2.5		33	73	26	47	
			ST	P = 2.5						
10		Tan clay	ST	P = 1.5		30	60	21	39	
			ST	P = 4.5+						
15										
			ST	P = 4.5+						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 40

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay								
-			ST	P = 2.25						
-			ST	P = 1.25		37	71	32	39	
5			ST	P = 1.0						
-			ST	P = 1.5		33	77	26	51	
10		Tan clay	ST	P = 2.25						
-										
-			ST	P = 3.5						
15										
-										
-			ST	Qu = 4.0	103	24				
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 41

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/15/20

COMPLETED 7/15/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 2.0		37	77	28	49	
1			ST	P = 2.5						
2										
3										
4		Brown clay	ST	P = 3.0		40	79	29	50	
5			ST	P = 3.75						
6										
7		Tan clay	ST	P = 4.5+		27	57	25	32	
8										
9										
10										
11										
12										
13			ST	P = 4.5+		35	85	30	55	
14										
15										
16										
17										
18			ST	Qu = 4.7	90	32				
19										
20		Bottom of hole at 20 feet.								

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Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 4.5+						
		Brown clay	ST	P = 4.5+		27	67	25	42	
5		Tan and gray clay	ST	P = 4.5+						
			ST	P = 4.5+		25	74	27	47	
10			ST	P = 4.5+						
		Gray limestone - with shale layers	AU							
15			THD	T = 7"/100						
			AU							
20			THD	T = 1.75"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 43

Ellerbee-Walczak, Inc.
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Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20

COMPLETED 7/13/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:





DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 3.0		36	76	31	45	
-		Brown clay	ST	P = 2.5						
-										
5			ST	P = 3.0		32	77	27	50	
-		Tan clay - with calcareous particles	ST	P = 3.75						
-			ST	P = 4.5+						
-										
10										
-		Tan silty shaley clay								
-			ST	P = 4.5+		20	49	18	31	
-										
15										
-		Tan shaley clay								
-			ST	P = 4.5+						
-										
20										
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US.GDT 8/14/20

FIGURE 44

Ellerbee-Walczak, Inc.
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Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
1		Brown clay	ST	P = 2.5						
2			ST	P = 2.0		35	75	27	48	
3										
4										
5			ST	P = 2.5						
6		Tan and gray clay - with calcareous particles	ST	P = 3.0		28	60	20	40	
7										
8			ST	P = 4.0						
9										
10		Tan and gray clay								
11			ST	P = 4.5+						
12										
13										
14		Tan and gray shaley clay								
15			ST	P = 4.5+		25	53	19	34	
16										
17										
18										
19										
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US GDT 8/14/20

FIGURE 45

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger



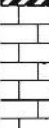
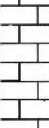
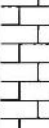
GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 3.5		24	57	22	35	
-		Tan and gray clay	ST	P = 4.5+						
-										
5		Tan and gray clay	ST	P = 4.5+						
-										
-		Tan and gray clay	ST	P = 4.5+						
-										
-										
10		Gray limestone - with shale layers	ST	P = 4.5+		32	90	34	56	
-										
-										
-			AU							
15			THD	T = 4.5"/100						
-										
-										
-			AU							
20			THD	T = 2"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US GDT 8/14/20

FIGURE 46

Ellerbee-Walczak, Inc.
 4501 Broadway Avenue
 Haltom City, Texas 76117
 Telephone: 817-759-9999
 Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/Sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay								
-		Tan and gray clay	ST	P = 3.25						
-			ST	P = 3.0		24	59	19	40	
5			ST	P = 3.75						
-			ST	P = 4.5+		27	65	28	37	
10			ST	P = 4.5+						
-		Gray limestone - with shale layers	AU							
15			THD	T = 6.25"/100						
-			AU							
20			THD	T = 2.5"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US GDT 8/14/20

FIGURE 47

Ellerbee-Walczak, Inc.
4501 Broadway Avenue
Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:




DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 1.75						
-			ST	P = 2.0						
-										
5		Tan clay	ST	P = 4.5+		21	53	22	31	
-			ST	P = 4.5+						
-		Tan shaley clay	ST	P = 4.5+		20	56	26	30	
10										
-			ST	P = 4.5+						
-		Tan limestone - with clay layers								
-			AU							
-		Gray limestone - with shale layers	THD	T = 3.75"/100						
20		Bottom of hole at 20 feet.								

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FIGURE 48

Ellerbee-Walczak, Inc.
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Haltom City, Texas 76117
Telephone: 817-759-9999
Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20

COMPLETED 7/13/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Brown clay	ST	P = 1.75						
-		Tan clay	ST	P = 3.0		37	80	28	52	
-		Tan shaley clay	ST	P = 4.5+						
5		Tan limestone - with clay layers	THD	T = 6.25"/100						
-		Tan clay	ST	P = 4.5+		22	63	30	33	
10		Tan limestone - with clay layers	THD	T = 7"/100						
-		Gray limestone - with shale layers	THD	T = 3.25"/100						
20		Bottom of hole at 20 feet.								

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FIGURE 49

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Fax: 817-759-1888

BORING NUMBER B-54

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger


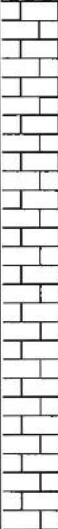
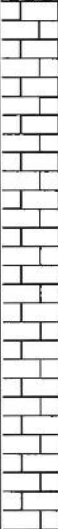
GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

AFTER DRILLING ---

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 2.75		34	79	29	50	
-		Brown clay	ST	P = 3.0						
-		Tan and gray clay	ST	P = 4.5+						
5		Tan clay	ST	P = 4.5+		23	65	28	37	
-			ST	P = 4.5+						
10										
-		Gray limestone - with shale layers	AU							
-			THD	T = 2.25"/100						
15										
-										
-			AU							
-			THD	T = 1.5"/100						
20		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681 GPJ GINT US GDT 8/14/20

FIGURE 50

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 2.5						
-		Brown clay	ST	P = 2.5		30	69	28	41	
-		Tan clay	ST	P = 4.25						
5			ST	P = 3.5						
-			ST	P = 4.5+		24	62	27	35	
10										
-		Tan shaley clay	ST	P = 4.5+		23	71	28	43	
15										
-		Tan limestone - with clay layers								
-		Gray limestone - with shale layers	AU							
-			THD	T = 4.25"/100						
20		Bottom of hole at 20 feet.								

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FIGURE 51

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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 2.25		36	78	27	51	
-		Brown clay	ST	P = 2.0						
-			ST	P = 4.25						
5		Tan clay	ST	P = 4.5+		25	58	23	35	
-		Tan shaley clay - with calcareous particles	ST	P = 4.5+						
10		Tan limestone - with clay layers								
-		Gray limestone - with shale layers	AU							
-			THD	T = 1.75"/100						
15										
-			AU							
-			THD	T = 1.25"/100						
20		Bottom of hole at 20 feet.								

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FIGURE 52

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/14/20 COMPLETED 7/14/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger


GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 15.0 ft

▽ AT END OF DRILLING 13.0 ft

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q _u : Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Dark brown clay	ST	P = 1.75						
-			ST	P = 1.5		41	83	28	55	
-			ST	P = 2.25						
5		Brown clay	ST	P = 2.25						
-			ST	P = 2.5		26	67	22	45	
-			ST	P = 2.25						
10		Tan and gray clay - with calcareous particles	ST	P = 2.5						
-			ST	P = 2.25						
-		Gray and tan clay	ST	P = 3.0						
15		Tan and gray clay	ST	P = 3.5		23	64	24	40	
20		Bottom of hole at 20 feet.								

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FIGURE 53

Ellerbee-Walczak, Inc.
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Fax: 817-759-1888

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/13/20 COMPLETED 7/13/20

GROUND ELEVATION N/A

GROUND WATER LEVELS:


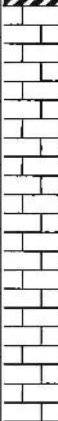
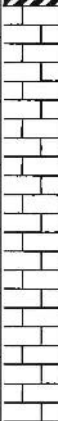
DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0										
-		Brown clay	ST	P = 4.0		29	71	27	44	
-		Tan clay	ST	P = 4.5+						
-		Tan shaley clay	ST	P = 4.5+		19	55	25	30	
5			ST	P = 4.5+						
-			ST	P = 4.5+		24	69	28	41	
10										
-		Gray limestone - with shale layers	AU							
-			THD	T = 4.25"/100						
15										
-			AU							
-			THD	T = 1.75"/100						
20		Bottom of hole at 20 feet.								

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FIGURE 54

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/14/20

COMPLETED 7/14/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

AFTER DRILLING ---

NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Q: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 3.25						
		Brown clay	ST	P = 2.25		39	81	28	53	
5		Tan clay	ST	P = 4.5+						
			ST	P = 4.25		24	60	22	38	
10			ST	P = 4.5+						
		Gray limestone - with shale layers	AU							
15			THD	T = 3.25"/100						
			AU							
20			THD	T = 1.5"/100						
		Bottom of hole at 20 feet.								

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FIGURE 55

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CLIENT Honeycreek Venetian, LLC

PROJECT NAME Weston Trails Project & Final Ph. 1

PROJECT NUMBER LD205681

PROJECT LOCATION Weston, TX

DATE STARTED 7/14/20 COMPLETED 7/14/20

GROUND ELEVATION N/A

DRILLING METHOD Continuous Flight Auger

GROUND WATER LEVELS:

AT TIME OF DRILLING Dry

AT END OF DRILLING Dry

NOTES

AFTER DRILLING --

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	N: Blows/ft. T: Inches/100 Blows P: Tons/Sq. Ft. R: Percent Qu: Kips/sq. Ft. RQD: Percent	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
							LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Dark brown clay	ST	P = 1.0		43	88	31	57	
			ST	P = 1.5						
5		Brown clay	ST	P = 1.75		41	87	29	58	
			ST	P = 3.5						
10		Tan clay	ST	P = 4.5+		22	67	27	40	
		Gray limestone - with shale layers	AU							
15			THD	T = 2.25"/100						
			AU							
20			THD	T = 1.25"/100						
		Bottom of hole at 20 feet.								

GEOTECH BH COLUMNS LD205681.GPJ GINT US.GDT 8/14/20

FIGURE 56

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
		HIGHLY ORGANIC SOILS			PT

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

Figure 57