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March 15, 2022

Town of Montville, CT
Office of the Planning Director
310 Norwich-New London Turnpike
Uncasville, CT 06382

Attn: Liz Burdick

RE: Village Apartments, LLC
82 Jerome Road, 15 Jerome Ave, and 232 Norwich-New London Turnpike (CT Route 32)
PZ#22SITE1 Site Plan application

Dear Ms. Burdick:

Loureiro Engineering Associates, Inc. (LEA) is in receipt of the review comments prepared by CLA Engineers, Inc. to you, dated February 4, 2022 regarding the Site Plan application for 82 Jerome Road, 15 Jerome Ave, and 232 Route 32.

Below please find our responses which correspond numerically to the original review comment:

1. The parking lot is a private parking lot for the residents, not for transient parking. It is understood that the residents will be familiar with the property and the parking layout and signage delineating parking areas will not be necessary.
2. Walkways are provided along the main access drives and in the front of each building where the pedestrian volume will be the greatest. Walkways are not provided at each parking area as this is a private residential development with limited traffic volume.
3. The proposed walk in the northeast corner of the development has been extended through the easement and out to Route 32.
4. All accessible ramps are shown as concrete and callouts have been added.
5. Accessible ramp details have been revised and are consistent with current CT DOT details.
6. A new sidewalk has been added at north and south ends of Building A from the end of steps to the proposed walk at the drive.
7. The concrete walks and bituminous walks have been clearly defined on the revised plans.
8. The sidewalk from Building B to the dumpsters has been extended to the dumpster.
9. The proposed underdrain cleanout has been relocated outside the dumpster pad.
10. Concrete pad dimensions are 19’x38’ and the dumpster enclosure dimensions are 10’x36’. A 3’ return is proposed on the gate opening, reducing the opening to 30’. Therefore, each

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gate swing is 15'. The gate swing has been added to the plan which shows vehicles can pass when open. A gate swing has also been added to the dumpster enclosure near Building C.

11. Additional Top-of-Wall (TOW) and Bottom-of-Wall (BOW) elevations have been added to each retaining wall on the Grading and Drainage Plan.
12. Block building and water line to be removed have been added to the Demolition Plan. Site Note #21 has been added that states wells must be removed or properly abandoned by a licensed well driller.
13. Hydrant north of Building 2 is to be removed and is shown on the Demolition Plan. A new hydrant and associated callout is shown on the Site Layout and Utilities Plan to the east of Building 2 and south of Building C to provide better access to the two buildings.
14. A net export of approximately 10,100 CY is expected with the proposed improvements.
15. Site Note #20 has been added that states a pre-blast survey shall be performed if blasting is required. The Ledge Elevation Legend on the Erosion & Sediment Control Plan has been revised accordingly.
16. The callout for the new proposed sign has been revised accordingly.
17. Site lighting is shown on the Site Planting and Lighting Plan. In addition, a Site Photometric Plan has been prepared and is included in the revised plan set.
18. Selective spot elevations have been added in the parking lot where appropriate. In addition, the 82 contour has been added around CB1.
19. A stop sign and stop bar has been added to the parking lot north of Building 1 and west of Building 2.
20. A note has been added to the Site Planting and Lighting Plan in the area of the ledge cut that states the planting locations need to be adjusted in the field relative to the ledge cut.
21. A bituminous concrete sidewalk and a concrete sidewalk detail are shown on the Details sheet.
22. Test Holes 4 and 5 were completed by Welti Geotechnical, PC on October 26, 2020. The logs for Test Holes 4 and 5 have been added to Sheet 2. A copy of the Geotechnical Report is enclosed herewith.
23. The Rip Rap swale detail has been revised accordingly.
24. Retaining walls will be constructed of architectural style modular concrete blocks, however, the manufacturer, style, and color has not been selected at this time.
25. The low-lying area along Jerome Avenue that extends onto the subject property is being significantly reduced with the proposed improvements which will result in less ponding along Jerome Avenue. In addition, a portion of the curb between proposed CB5 and the edge of Jerome Road has been removed and a pea gravel diaphragm is now proposed to provide an outlet for ponding in this area to travel over the pea gravel diaphragm and into Yard Drain 2.

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26. Two additional 5’ curb cuts have been added to the east of the existing curb cuts to allow for stormwater runoff to exit the parking lot and flow overland a greater distance before reaching the wetland.
27. Figure 4 has been printed in a 24x36 format and included herewith.
28. A retaining wall with a fence for fall protection has been added behind Building A to allow for a shallow sloped area between the retaining wall and back of the building. In addition, enclosed herewith is a ladder diagram which shows the area to the rear of Building A provides adequate distance for ladder access to the top floor of the proposed building.
29. Pelletier Builders, a wholly-owned subsidiary of Loureiro Engineering Associates, Inc., has provided a Performance Bond Estimate of $100,000 for the Erosion and Sediment Control Measures for the site.

If you have any questions please do not hesitate to contact us at contact us at (860) 448-0400.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Seamus Moran, P.E.
Senior Project Manager

Attachments (4)

CC: Harry Heller, Esq. – Heller, Heller & McCoy
Tomas Haendler – Silver Heights Development, LLC
Louis Tallarini – Real Property Investors, Inc.

WELTI GEOTECHNICAL, P.C.

227 Williams Street · P.O. Box 397
Glastonbury, CT 06033-0397

(860) 633-4623 / FAX (860) 657-2514

October 26, 2020

Mr. Clinton S. Brown II PE, AICP
Loureiro Engineering Associates, Inc.
100 Fort Hill Road
Groton, CT 06340

Re: Geotechnical Study for Proposed Village III Apartments, Village Road, Montville, CT

Dear Clint:

1.0 Herewith are the boring and test pit data pertaining to the above. Twenty four borings were drilled to auger refusal at depths ranging from 3.5 to 15.5 feet below the existing grades. Nineteen test pits were excavated to depths ranging from 7 to 9 feet below the existing grades. The boring and test pits locations are shown on the attached plan. The proposed building corners and test pit locations were staked in the field by Loureiro Engineering. *The borings were drilled by Clarence Welti Associates, Inc. and sampling was conducted by this firm solely to obtain indications of subsurface conditions as part of a geotechnical exploration program. No services were performed to evaluate subsurface environmental conditions.*

1.1 Laboratory Testing: Grain size gradation tests and water content tests were performed on 12 soil samples taken from the borings and test pits. Permeability tests were performed on 19 soil samples taken from the test pits to evaluate the potential for on site storm water infiltration. The results of the laboratory tests are included in the Appendix.

2.0 The **Subject Project** will include the construction of three apartment buildings. Each of the building will have 3 stories and a footprint of about 14,000 sf. The site development will include parking areas, an access driveway from Jerome Avenue and storm water management areas. The new development area will connect to the existing Village Apartment Complex, which is accessed from Village Apartment Place off Jerome Road. Based on the preliminary site layout plan dated August 12, 2020 the grading for the buildings will be generally as follows:

1. **Building "A"**: There is about 20 feet of topographic relief across the proposed footprint (Elev.90 to Elev.70). The proposed basement floor level will be at Elev.84.5 and the 1st floor at Elev.94.

2. **Building "B"**: There is about 8 feet of topographic relief across the proposed footprint

(Elev.101 to Elev.109). The proposed first/ground floor level will be at Elev.94 and the 2nd floor at Elev.103.5.

3. **Building "C"**: There is about 23 feet of topographic relief across the proposed footprint (Elev.80 to Elev.103). The proposed first/ground floor level will be at Elev.84.5 and the 2nd floor at Elev.94.

4. The proposed site grading was not indicated on the preliminary plan

3.0 The **Geologic Origin** of the natural soils at the subject site is predominately from glacial moraine deposits atop the bedrock. These deposits consist generally of compact sand with little to some silt and gravel, few cobbles and boulders to the top of bedrock. The USGS soils mapping for the area indicates there are terrace deposits in the lower areas of the site. These deposits consist generally of compact sand with trace to little silt, little to some gravel, few cobbles and boulders. The USGS bedrock mapping indicates the bedrock on the site Alaskite Gneiss.

3.1 The **Soils Cross Section** from the test borings and test pits is generally as follows:

Apartment Building "A": (see borings A-1 thru A-8)

Topsoil to 3 to 7"

Subsoil; fine to medium SAND, some Silt, little Gravel, few Cobbles; or SILT and fine SAND, trace Roots to 2 to 6 feet, loose to medium compact

Fine to coarse SAND, little to some Gravel, few Cobbles and Boulders, trace to little Silt to auger refusal on possible boulders or bedrock at 3.5 to 15.5 feet (Elev.59 to Elev.83.5±), dense to very dense

Apartment Building "B": (see borings B-1 thru B-16)

Topsoil to 2 to 6"

Subsoil; fine to medium SAND, some Silt, little Gravel, few Cobbles, trace Roots; or SILT and fine SAND, trace Roots to 1.5 to 4 feet, loose to medium compact

Fine to coarse SAND, little to some Silt and Gravel, few Cobbles and Boulders to auger refusal on possible boulders or bedrock at 5 to 10 feet (Elev.95 to Elev.101±), dense to very dense

Apartment Building "C": (see borings C-17 thru C-24)

Topsoil to 3 to 7"

Subsoil or Possible Fill; fine to medium SAND, some Silt, little Gravel, few Cobbles; or SILT, trace to little fine Sand, trace Roots to 2 to 6 feet, loose to medium compact

Fine to coarse SAND, little to some Gravel, few Cobbles and Boulders, trace to little Silt to auger refusal on possible boulders or bedrock at 4.5 to 14 feet (Elev.74 to Elev.93±), dense to very dense

Test Pits : (TP-1 thru TP-19)

At south end of site (see test pits TP-1 thru TP-9)

Topsoil to 4 to 6"

Subsoil or Possible Fill; fine SAND and SILT, little Gravel, Cobbles and Roots; or SILT, trace to little fine Sand, trace Roots to 4 to 5 feet

Fine to coarse SAND, some Gravel and Cobbles, trace Silt to 8+ feet

At middle of site (see test pits TP-10 thru TP-13)

Topsoil to 5 to 8"

Subsoil; fine to medium SAND, some Silt, little Gravel, few Cobbles, trace Roots; or SILT, little to some fine Sand, trace Roots to 1.5 to 3 feet

Fine to coarse SAND, some Gravel, Cobbles and Boulders, trace to little Silt; or SILT, little to some fine Sand, trace Gravel and Roots, few Cobbles and Boulders to 8+ feet

At west end of site (see test pits TP-14 thru TP-19)

Topsoil to 2 to 6"

At TP-14, TP-15 & TP-18; fine to coarse SAND, little to some Gravel, few Cobbles and Boulder, trace Silt to 8+ feet

At TP-16 thru TP-17

Fine to coarse SAND, some Silt, little Gravel, few Cobbles and Boulder, trace Roots; or fine to medium SAND and SILT to 4 to 6.5 feet

Fine to coarse SAND, little Silt and Gravel, few Cobbles and Boulders to 7 to 8 feet

At TP-19

FILL; fine SAND and SILT, trace Roots to 4 feet

Fine SAND and SILT to 8 feet

3.2 The **Water Table** was not evident above the auger refusal depths at the completion of the borings. The wetlands area at the west side of the site is at about Elev.65.

4.0 The **Criteria for Foundation Type and Loading** are as follows:

1. The maximum total settlement should not exceed ¾" and the maximum differential settlement should not exceed ½ the maximum settlement.

2. The foundation type and structure must address the seismic requirements of the building code.

3. The slab on grade must not settle differentially more than ½" in excess of the structure subsidence.

These criteria are those normally applied to structures of similar character. If the structural engineer, the architect, or the owner has other criteria, the writer should be notified for possible supplemental input.

4.1 Regarding item 2 above, the Seismic Site Soil Profile Classification is "C". The mapped MCE seismic response acceleration values for Montville, CT are $\mathbf{S_1 = 0.059}$ for one second period and $\mathbf{S_S = 0.165}$ for short period. For transfer of ground shear into the soil, the ultimate friction factor between the concrete over crushed stone atop the soil can be **0.55.**

5.0 Regarding Foundation Types, the logical type will be spread footings. The footings can be on the natural inorganic soils or on a controlled fill placed after the removal of any existing fills, topsoil and frost disturbed subsoils (assumed frost disturbed to at least 2 feet below the natural/original grades). The natural soils may be susceptible to remolding under equipment when wet. To address this condition there should be a minimum 6" layer of 3/8" crushed stone beneath the footings on the natural soils and as an initial layer beneath controlled fills where placed over a wet subgrade. Controlled fills should conform to the requirements of section 6.0 below, and should extend horizontally beyond the footings for a distance equal to at least the depth of fill beneath the footings.

5.0.1 Foundations at building B and locally at building C will probably fall in bedrock cuts. The recommended approach for foundations in the cuts is to over blast the rock to at least 2 feet below proposed footing levels. The excavation at footings should include removal of pieces of rock larger than 8". There should be at least 6" of crushed 3/8" stone place and compacted with a least 5 passes of vibratory compactor with a static weight of at least 4 Tons and dynamic force of 8 Ton over the blasted rock surface. The stone will in effect "choke" the blasted rock. This procedure of placing the crushed 3/8" stone over the smaller blasted rock particles should also apply for the slabs on grade in rock cuts.

5.1 The **Allowable Bearing Pressure** for footing on controlled fill, on the crushed stone atop the blasted rock or on the crushed stone atop the natural inorganic soils can be 4,000 psf. The allowable bearing pressures can be increased by 1/3 for seismic and wind loading. Retaining wall footings can have toe pressures 50% above the average pressure cited above.

5.2 Regarding **Lateral Soil Loading** on retaining walls constructed as part of the buildings (if any), these should be designed with at-rest pressure, using the at rest coefficient cited in the table below. Retaining walls apart from the buildings can be designed with normal active pressure (assuming level backfill). The ultimate sliding factor for concrete on crushed stone or controlled fill can be 0.55. The backfill for retaining walls should conform to section 6.0 below and should extend horizontally behind the wall for a distance equal to at least the height of the wall. Retaining walls should have foundation drains.

5.2.1 Seismic lateral loading for retaining walls that are part of the building shall be with a total lateral force (seismic plus static at-rest pressure) equal to $24H^2$ lb/ft located at ½H above the bottom. The above value is based on the Mononobe-Okabe solution for the case with level backfill, no wall friction and no hydrostatic pressure. This value excludes the inertia of the soil and wall mass. The requirements for the seismic analyses of earth retention structures as part of the building shall be determined from the Connecticut Building Code (IBC) or the ASCE-7.

5.3 The **Frost Protection Depth** in accordance with the Building Code is 3.5 feet below finish grades in areas that are exposed to weather.

5.4 The following is a **Summary of the Foundation Design Parameters**:

Parameter	Value
Allowable Bearing Pressure for Footings on controlled fill, on the crushed stone layer atop the blasted rock or on the crushed stone layer atop the natural soils	4,000 psf
Backfill Unit Weight *	125 pcf
Internal Friction Angle , Backfill *	34°
At-Rest Coefficient	0.45
Active Pressure Coefficient (with level backfill *)	0.28
Sliding Coefficient soil/concrete	0.55
Seismic Site Soil Profile Classification	C
Mapped MCE Seismic Spectral Response Acceleration for one second period, S_1	0.059

Mapped MCE Seismic Spectral Response Acceleration for short period, S_S	0.165
Frost Protection Depth	3.5 feet

* For backfill conforming to the material in Section 6.0

6.0 Regarding **Controlled Fill, Backfill of Retaining Walls, Foundation Walls** and **Column Footings, plus fill beneath Slabs at Grade** (to within 4" of the slab bottom) the material should conform to the following, or be 3/8" crushed stone:

Percent Passing	Sieve Size
100	3.5"
50 - 100	3/4"
25 - 75	No.4

The fraction, passing the No.4 sieve should have less than 15% passing the No. 200 sieve.

The on-site excavated soils will generally not conform to the above gradation.

All backfill and fill must be compacted to at least 95% of modified optimum density in accordance with ASTM D-1557.

6.1 All topsoil, subsoil and existing fills should be removed from beneath the floor slabs. The controlled fill should conform to section 6.0 above. There should be at least 16" of controlled fill beneath slab on grade floors, placed to within 4" of the slab bottom. The final 4" directly beneath the slab should be with 3/8"crushed stone. As cited in section 5.0.1 the locations where the slabs on in rock cuts (blasted rock surface) a special procedure is recommended to minimize slab bottom preparation. A **vapor retarder** is required under slabs at grade.

6.2 For basements of slabs below proposed exterior grades there should be at least 8" of crushed 3/8" stone beneath the slabs. Footing drains are required and an interior perimeter under drain is recommended about 6 feet inside exterior walls. If usage is for apartments, water proofing is recommended. Water stops should be included at the wall/footing interface.

7.0 Long Term Earth Slopes in earth cuts and fills should be 2H:1V, or flatter. Earth cut slopes exceeding 4 feet high should have underdrains and a stone wedge to address ground water. A recommended slope schematic is provided in the Appendix 2.

7.1 Regarding **Earthwork** the excavations will generally be in soils defined as OSHA Type C and any excavations, which are not shored and exceed 5 feet in height must be cut back to slopes less

than 34° from the horizontal.

7.2 The following are recommendations for **compactor weight versus lift thickness** for placing controlled fills with material conforming to section 6.0 above:

Static Weight	Dynamic Force	Lift Thickness
>10 Tons	20 Tons	12"
7.5 Tons	15 Tons	10"
5 Tons	10 Tons	8"
2 Tons	4 Tons	7"
1 Ton	2 Tons	6"
< 1 Ton	< 2 Tons	< 5"

7.3 The excavations for **utilities** will generally be in the dense moraine with cobbles and boulders or in possible ledge.

7.3.1 The **Bedding Material** for underground utilities with trenches in soil can be with sand bedding or 3/8" crushed stone (utility may define actual bedding). Bedding for utilities falling in rock cuts should be with 3/8" crushed stone.

7.3.2 Backfill of utility trenches in paved areas should be with material cited in section 6.0 above to exclude future settlement of pavement.

8.0 Regarding **New Pavements,** the pavement subgrades will generally fall in frost susceptible soils. There should be at least 12" of subbase beneath the pavement sections cited below to address the frost. Where the subgrades fall on wet soils, the initial layer of fill should be with a minimum 6" layer of 3/8" crushed stone. Existing subsoils can remain in place beneath the subbase layer provided that they can be proof compacted without significant rutting or weaving. Subbase material and controlled fill should conform to section 6.0 above. The recommended pavement sections atop the subbase are as follows:

For passenger car parking: 3" of Bituminous Concrete (in two courses) on 6" of Processed Stone Base (material conforming to CTDOT Form 816, section M.05.01)

For truck access areas: 4" of Bituminous Concrete (in two courses) on 8" of Processed Stone Base (material conforming to CTDOT Form 816, section M.05.01)

8.1 Subsurface drainage and edge drains are recommended in pavement cut areas to lengthen pavement life and lessen potential cracking. The drains can be 4" diameter perforated ADC piping

about 12" below the subbase in a geotextile wrapped trench backfilled with 3/8" crushed stone. Stone wedges are recommended in cuts exceeding 4 feet in depth.

8.2 For **Portland Cement Concrete** the concrete thickness for light truck traffic would be 6". This would be placed on 12"of gravel subbase conforming to section 7.0. For passenger car parking the concrete thickness would be 5" atop 12" of the gravel subbase. For concrete aprons contiguous to the building the gravel subbase shall extend to 18" below grade. This is to avoid movement of the slab at flush doorways.

9.0 Regarding storm water management and the potential for storm water infiltration, the areas to the west of building "A" and to the south of building "C" have a stratum of soils above the bedrock and water table, which have moderate to high permeabilities (i.e., 9.1 to 200+ feet/day). In the higher terrain area between buildings "A" and 'B", the permeability values ranged from 1.1 to 5.6 feet/day.

10.0 This report has been prepared for specific application to the subject project in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made. In the event that any changes in the nature, design and location of structures are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing.

The analyses and recommendations submitted in this report are based in part upon data obtained from referenced explorations. The extent of variations between explorations may not become evident until construction. If variations then appear evident, it will be necessary to re-evaluate the recommendations of this report.

Welti Geotechnical, P.C., should perform a general review of the final design and specifications in order that geotechnical design recommendations may be properly interpreted and implemented as they were intended.

If you have any questions please call me.

Very truly yours,

Max Welti

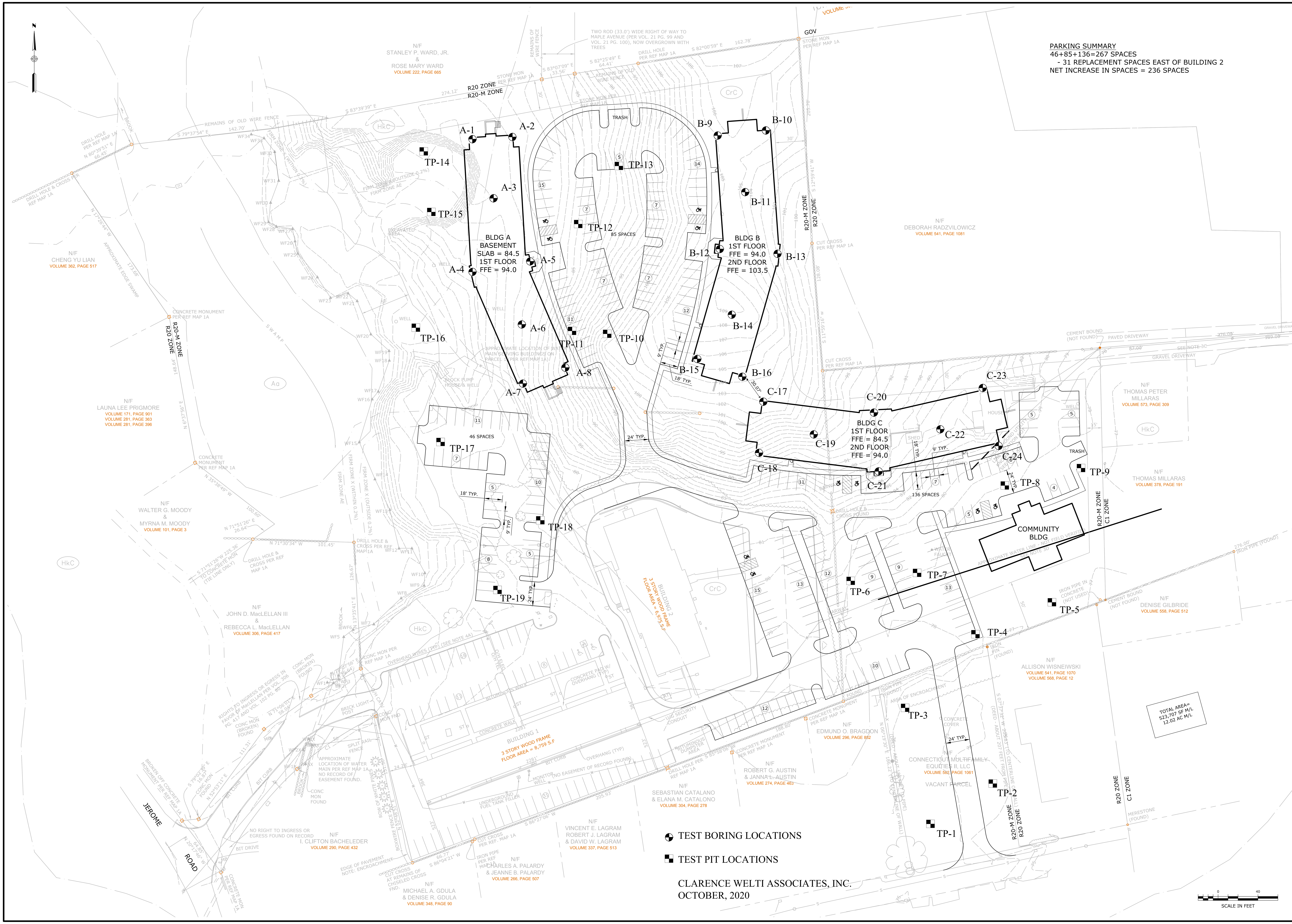
Max Welti, P.E.
President

Clarence Welti

Clarence Welti Ph.D., P. E.
Vice President

APPENDIX 1

BORING LOCATION PLAN
+
TEST BORING LOGS
+
GRAIN SIZE GRADATION TEST RESULTS
+
PERMEABILITY TEST RESULTS


PARKING SUMMARY
46+85+136=267 SPACES
- 31 REPLACEMENT SPACES EAST OF BUILDING 2
NET INCREASE IN SPACES = 236 SPACES
BLDG A
BASEMENT
SLAB = 84.5
1ST FLOOR
FFE = 94.0
BLDG B
1ST FLOOR
FFE = 94.0
2ND FLOOR
FFE = 103.5
BLDG C
1ST FLOOR
FFE = 84.5
2ND FLOOR
FFE = 94.0
COMMUNITY BLDG
85 SPACES
46 SPACES
136 SPACES
BUILDING 1
3 STORY WOOD FRAME
FLOOR AREA = 8,759 S.F
BUILDING 2
3 STORY WOOD FRAME
FLOOR AREA = 6,753 S.F
A-1
A-2
A-3
A-4
A-5
A-6
A-7
A-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
C-17
C-18
C-19
C-20
C-21
C-22
C-23
C-24
TP-1
TP-2
TP-3
TP-4
TP-5
TP-6
TP-7
TP-8
TP-9
TP-10
TP-11
TP-12
TP-13
TP-14
TP-15
TP-16
TP-17
TP-18
TP-19
N/F
STANLEY P. WARD, JR.
&
ROSE MARY WARD
VOLUME 222, PAGE 665
N/F
CHENG YU LIAN
VOLUME 362, PAGE 517
N/F
LAUNA LEE PRIGMORE
VOLUME 171, PAGE 901
VOLUME 281, PAGE 363
VOLUME 281, PAGE 396
N/F
WALTER G. MOODY
&
MYRNA M. MOODY
VOLUME 101, PAGE 3
N/F
JOHN D. MacLELLAN III
&
REBECCA L. MacLELLAN
VOLUME 306, PAGE 417
N/F
DEBORAH RADZVILOWICZ
VOLUME 541, PAGE 1081
N/F
THOMAS PETER
MILLARAS
VOLUME 573, PAGE 309
N/F
THOMAS MILLARAS
VOLUME 378, PAGE 191
N/F
DENISE GILBRIDE
VOLUME 558, PAGE 512
N/F
ALLISON WISNEWSKI
VOLUME 541, PAGE 1070
VOLUME 568, PAGE 12
N/F
EDMUND D. BRAGDON
VOLUME 296, PAGE 882
N/F
ROBERT G. AUSTIN
& JANNA L. AUSTIN
VOLUME 274, PAGE 463
N/F
SEBASTIAN CATALANO
& ELANA M. CATALANO
VOLUME 304, PAGE 278
CONNECTICUT MULTIFAMILY
EQUITIES II, LLC
VOLUME 582, PAGE 1061
VACANT PARCEL
N/F
VINCENT E. LAGRAM
ROBERT J. LAGRAM
& DAVID W. LAGRAM
VOLUME 337, PAGE 513
N/F
CHARLES A. PALARDY
& JEANNE B. PALARDY
VOLUME 266, PAGE 507
N/F
MICHAEL A. GDULA
& DENISE R. GDULA
VOLUME 348, PAGE 90
N/F
I. CLIFTON BACHELEDER
VOLUME 290, PAGE 432
JEROME ROAD
R20 ZONE
R20-M ZONE
C1 ZONE
TOTAL AREA=
523,707 SF M/L
12.02 AC M/L
TEST BORING LOCATIONS
TEST PIT LOCATIONS
CLARENCE WELTI ASSOCIATES, INC.
OCTOBER, 2020
SCALE IN FEET
0
40

REV. | DESCRIPTION OF REVISION | DATE | APPR.

Loureiro
Loureiro Engineering Associates, Inc.
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SCALE 1" = 40
COMM. NO. 88VA9.01
DATE 08/12/2020
DRAWN BY BJM
APPROVED BY

PRELIMINARY SITE LAYOUT
VILLAGE APARTMENTS PHASE III
JEROME ROAD, MONTVILLE, CT
PREPARED FOR
VILLAGE APARTMENTS LLC
31 COGSWELL LANE, STAMFORD, CT

DRAWING 1

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-1

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/15/20
FINISH DATE 10/15/20

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-3-3-2	0.0'-2.0'		TOPSOIL 0.40	
					LIGHT BR.SILT, SOME FINE SAND, TRACE ROOTS	
	2	4-5-6-7	2.0'-4.0'			
	3	60	4.0'-4.4'		GREY/BR.FINE-CRS.SAND, SOME GRAVEL, FEW COBBLES & 4.5	
5					BOULDERS, TRACE SILT	
10	4	13-18-18	10.0'-11.5'			
					BOTTOM OF BORING @ 13.0' (AUGER REFUSAL) 13.0	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **A-1**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-2

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/15/20
FINISH DATE 10/15/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-2-3-4	0.0'-2.0'		TOPSOIL 0.40	
					LIGHT BR.FINE SAND, SOME SILT	
	2	5-6-7-7	2.0'-4.0'			
					4.0	
	3	8-10-17-29	4.0'-6.0'		LIGHT GREY/BR.FINE SAND, SOME SILT	
5					6.0	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
10	4	60	10.0'-10.2'			
					13.0	
					BOTTOM OF BORING @ 13.0' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **A-2**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-3

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/15/20
FINISH DATE 10/15/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	60	0.0'-0.6'		TOPSOIL 0.17	
					BR.FINE-MED.SAND, SOME GRAVEL, COBBLES & BOULDERS, LITTLE SILT	
					3.5	
5					BOTTOM OF BORING @ 3.5' (AUGER REFUSAL)	
					NOTE: MADE 2 ADDITIONAL ATTEMPTS WITH REFUSAL @ 3' AND 3.5'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **A-3**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-4

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/14/20
FINISH DATE 10/14/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-2-3-7	0.0'-2.0'		TOPSOIL 0.33	
					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	
	2	5-6-16-15	2.0'-4.0'		3.0	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
	3	9-9-10-13	4.0'-6.0'			
5						
10	4	8-14-38	10.0'-11.5'		10.0	
					LIGHT GREY/BR.FINE-CRS.SAND, LITTLE GRAVEL, FEW COBBLES & BOULDERS, TRACE SILT	
15	15	50-60	15.0'-16.0'			
					17.0	
					BOTTOM OF BORING @ 17.0' (AUGER REFUSAL)	
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **A-4**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-5

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/14/20
FINISH DATE 10/14/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	60	0.0'-0.3'		TOPSOIL 0.33	
					BR.FINE-MED.SAND, SOME SILT & GRAVEL, FEW COBBLES & BOULDERS	
	2	7-30-60	2.0'-3.3'			
					4.0	
5	3	26-35-34-43	5.0'-7.0'		BR.FINE-MED.SAND, SOME SILT, TRACE ROOTS, FEW COBBLES & BOULDERS	
					9.0	
10	4	60	10.0'-10.3'		LIGHT BR.FINE-CRS.SAND, LITTLE GRAVEL, FEW COBBLES & BOULDERS, TRACE SILT	
15	12	60	15.0'-15.3'		15.5	
					BOTTOM OF BORING @ 15.5' (AUGER REFUSAL)	
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **A-5**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-6

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/14/20
FINISH DATE 10/14/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	7-33-60	0.0'-1.5'		TOPSOIL 0.25	
					GREY FINE-MED.SAND, LITTLE SILT & GRAVEL, FEW COBBLES	
	2	7-32-21-15	2.0'-4.0'		2.0	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
	3	60	4.0'-4.1'			
5						
10	4	30-60	10.0'-10.6'			
					12.0	
					BOTTOM OF BORING @ 12.0' (AUGER REFUSAL)	
					NOTE: MADE 2 ADDITIONAL ATTEMPTS WITH REFUSALS AT 6' AND 4'	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **A-6**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-7

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/14/20
FINISH DATE 10/14/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-1-7-4	0.0'-2.0'		TOPSOIL 0.40	
					BR.FINE SAND AND SILT, TRACE ROOTS	
	2	8-16-21-28	2.0'-4.0'		2.5	
					LIGHT BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
	3	36-35-60	4.0'-5.3'			
5						
10					9.5	
					BOTTOM OF BORING @ 9.5' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **A-7**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. A-8

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/14/20
FINISH DATE 10/14/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-2-3-2	0.0'-2.0'		TOPSOIL 0.56	
					LIGHT BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL	
	2	5-4-6-14	2.0'-4.0'		3.5	
5					LIGHT BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
	3	18-60	5.0'-5.6'		6.5	
					BOTTOM OF BORING @ 6.5' (AUGER REFUSAL)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **A-8**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-9

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-7-14-11	0.0'-2.0'		TOPSOIL 0.50	
					DARK BR.FINE-MED.SAND, SOME SILT, FEW COBBLES	
					2.0	
	2	3-8-60	3.0'-4.3'		LIGHT GREY/BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
5	3	10-31-60	5.0'-6.3'			
					9.0	
10					BOTTOM OF BORING @ 9.0' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **B-9**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-10

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-3-4-4	0.0'-2.0'		TOPSOIL 0.40	
					BR.FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	
	2	4-8-60	2.0'-3.1'			
					4.0	
5					LIGHT BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
	3	60	5.0'-5.4'			
					9.0	
10					WEATHERED ROCK	
					10.0	
					BOTTOM OF BORING @ 10.0' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-10**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-11

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	3-4-4-9	0.0'-2.0'		TOPSOIL 0.33	
					LIGHT BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES, TRACE ROOTS 1.5	
	2	27-34-60	2.0'-3.5'		LIGHT BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS	
5	3	60	5.0'-5.4'		WEATHERED ROCK 6.0	
					BOTTOM OF BORING @ 8.5' (AUGER REFUSAL) 8.5	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-11**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-12

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	5-60	0.0'-1.0'		TOPSOIL 0.25	
					BR.FINE-MED.SAND, SOME SILT & COBBLES	
	2	60	3.0'-3.3'			
					WEATHERED ROCK 4.0	
5					BOTTOM OF BORING @ 5.0' (AUGER REFUSAL) 5.0	
					NOTE: MADE 2 ADDITIONAL ATTEMPTS WITHIN 5 FEET OF THE STAKED LOCATION WITH REFUSAL AT 1' AND 10"	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-12**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-13

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-1-3-8	0.0'-2.0'		TOPSOIL 0.17	
					LIGHT BR.SILT AND FINE SAND	
					2.0	
	2	60	3.0'-3.5'		LIGHT GREY/BR.FINE-CRS.SAND, SOME COBBLES & BOULDERS, LITTLE SILT & GRAVEL	
5	3	60	5.0'-5.4'		5.5	
					BOTTOM OF BORING @ 5.5' (AUGER REFUSAL)	
					NOTE: MADE 1 ADDITIONAL ATTEMPT WITHIN 5 FEET OF THE STAKED LOCATION WITH REFUSAL AT 4.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-13**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-14

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	7-6-5-8	0.0'-2.0'		TOPSOIL 0.10	
					BR.FINE-MED.SAND, SOME SILT, TRACE ROOTS & GRAVEL	
	2	26-60	3.0'-3.9'		4.0	
5	3	60	5.0'-5.3'		LIGHT GREY/BR.FINE-CRS.SAND, SOME COBBLES & BOULDERS, LITTLE SILT	
					6.0	
					BOTTOM OF BORING @ 6.0' (AUGER REFUSAL)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-14**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-15

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	2-2-3-3	0.0'-2.0'		TOPSOIL 0.17	
					LIGHT BR.FINE SAND AND SILT, TRACE ROOTS	
	2	10-60	2.0'-2.6'		2.5	
					LIGHT GREY/BR.FINE-MED.SAND, SOME GRAVEL, FEW COBBLES & BOULDERS, LITTLE SILT	
5	3	25-37-60	5.0'-6.5'			
					7.0	
					BOTTOM OF BORING @ 7.0' (AUGER REFUSAL)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-15**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. B-16

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/13/20
FINISH DATE 10/13/20

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-4-4-18	0.0'-2.0'		TOPSOIL 0.17	
					BR.FINE-MED.SAND, SOME SILT, TRACE ROOTS	
					1.5	
	2	22-32-46-60	2.0'-3.8'		LIGHT GREY/BR.FINE-CRS.SAND, SOME GRAVEL, FEW COBBLES & BOULDERS, LITTLE SILT	
5	3	20-60	5.0'-6.0'			
					7.0	
					BOTTOM OF BORING @ 7.0' (AUGER REFUSAL)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **B-16**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-17

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/12/20
FINISH DATE 10/12/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-3-60	0.0'-1.3'		TOPSOIL 0.17	
					BR.FINE-MED.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & COBBLES	
5	2	26-60	5.0'-5.9'		LIGHT GREY/BR.FINE-MED.SAND, LITTLE SILT & GRAVEL, FEW COBBLES 5.0	
10					BOTTOM OF BORING @ 10.0' (AUGER REFUSAL) 10.0	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. **C-17**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-18

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/12/20
FINISH DATE 10/12/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-4-7-15	0.0'-2.0'		TOPSOIL 0.17	
					LIGHT BR.FINE SAND AND SILT	
	2	20-60	2.0'-3.0'		LIGHT GREY/BR.FINE-MED.SAND, LITTLE SILT & GRAVEL 2.0	
					WEATHERED ROCK 3.0	
5					BOTTOM OF BORING @ 4.5' (AUGER REFUSAL) 4.5	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-18**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-19

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/12/20
FINISH DATE 10/12/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-4-16-21	0.0'-2.0'		TOPSOIL 0.25	
					LIGHT BR.FINE-MED.SAND, LITTLE TO SOME SILT, LITTLE GRAVEL, FEW COBBLES	
	2	60	2.0'-2.5'			
5	3	26-60	5.0'-5.9'			
					LIGHT GREY/BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES 6.0	
10					BOTTOM OF BORING @ 10.0' (AUGER REFUSAL) 10.0	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-19**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-20

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	2-3-3-2	0.0'-2.0'		TOPSOIL 0.56	
					BR.SILT, TRACE FINE SAND & ROOTS	
	2	3-3-3-5	2.0'-4.0'			
					4.0	
	3	8-10-21-41	4.0'-6.0'		LIGHT BR.FINE-CRS.SAND, SOME GRAVEL, FEW COBBLES & BOULDERS, TRACE SILT	
5						
10	4	38-60	10.0'-10.8'			
					13.0	
					BOTTOM OF BORING @ 13.0' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-20**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-21

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-1-1-2	0.0'-2.0'		TOPSOIL 0.56	
					LIGHT BR.SILT, TRACE FINE SAND & ROOTS	
	2	3-11-16-60	2.0'-3.9'		3.0	
					LIGHT BR.FINE-MED.SAND, SOME GRAVEL, LITTLE SILT, FEW COBBLES & BOULDERS	
5	3	4-32-27-36	5.0'-7.0'			
10	4	60	10.0'-10.3'		10.0	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL	
					14.0	
15					BOTTOM OF BORING @ 14.0' (AUGER REFUSAL)	
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-21**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-22

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	2-2-3-4	0.0'-2.0'		TOPSOIL 0.33	
					DARK BR.FINE-MED.SAND, LITTLE SILT, TRACE GRAVEL 1.0	
	2	2-3-4-4	2.0'-4.0'		LIGHT BR.SILT, LITTLE FINE SAND, TRACE ROOTS	
	3	60	4.0'-4.3'		LIGHT GREY/BR.FINE-CRS.SAND, SOME GRAVEL, LITTLE SILT, 4.5	
5					FEW COBBLES & BOULDERS	
					9.0	
					WEATHERED ROCK	
10	4	60	10.0'-10.4'		10.5	
					BOTTOM OF BORING @ 10.5' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-22**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-23

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	5-11-7-6	0.0'-2.0'		TOPSOIL 0.17	
					BR.FINE-MED.SAND, SOME SILT, TRACE GRAVEL & ASPHALT - FILL 1.0	
	2	5-4-8-24	2.0'-4.0'		BR.FINE-MED.SAND, SOME SILT, TRACE GRAVEL	
	3	43-60	4.0'-4.9'		BR.FINE-CRS.SAND, SOME GRAVEL, LITTLE SILT, FEW COBBLES & BOULDERS 4.5	
5						
					BOTTOM OF BORING @ 8.5' (AUGER REFUSAL) 8.5	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-23**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. C-24

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	2-2-2-3	0.0'-2.0'		TOPSOIL 0.25	
					DARK BR.FINE-MED.SAND AND SILT, TRACE ROOTS & WOOD	
	2	2-1-3-3	2.0'-4.0'			
	3	3-3-5-9	4.0'-6.0'			
5					6.0	
					BR.FINE-CRS.SAND, SOME GRAVEL,FEW COBBLES & BOULDERS, TRACE SILT	
10	4	60	10.0'-10.3'			
					11.5	
					BOTTOM OF BORING @ 11.5' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:

SHEET 1 OF 1

HOLE NO. **C-24**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP1

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					BR.FINE SAND AND SILT, LITTLE ROOTS - FILL	
					2.5	
					LIGHT GREY/BR.SILT, SOME FINE SAND	
5					5.0	
					LIGHT BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT	
					8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP1**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP2

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.40	
					BR.FINE SAND AND SILT, SOME GRAVEL, LITTLE ROOTS, FEW COBBLES - FILL	
					LIGHT GREY/BR.SILT, SOME FINE SAND 3.5	
5					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 5.0	
					BOTTOM OF BORING @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. TP2

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP3

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.60	
					LIGHT GREY/BR.SILT, LITTLE FINE SAND	
					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 4.0	
5						
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP3**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP4

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.40	
					LIGHT BR.SILT, SOME FINE SAND	
					4.0	
5					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT	
					9.0	
10					BOTTOM OF TEST PIT @ 9.0'	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP4**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP5

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.30	
					BR.SILT, SOME FINE SAND, LITTLE ROOTS 1.0	
					LIGHT BR.FINE SAND, SOME SILT	
5					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 4.5	
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP5**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP6

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.30	
					BR.FINE SAND AND SILT, LITTLE ROOTS	
					LIGHT BR.SILT, SOME FINE SAND 1.6	
5					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 5.0	
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP6**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP7

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.30	
					BR.FINE SAND AND SILT, LITTLE ROOTS	
					LIGHT BR.SILT, LITTLE FINE SAND 1.6	
					RUST/BR. FINE SAND, LITTLE TO SOME SILT 4.0	
5					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 4.5	
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP7**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP8

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					BR.FINE SAND AND SILT, SOME GRAVEL, FEW COBBLES, LITTLE ROOTS - FILL 2.0	
					LIGHT GREY/BR.SILT, SOME FINE SAND 4.0	
5					GREY/BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1

HOLE NO. **TP8**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP9

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/8/20
FINISH DATE 10/8/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.25	
					BR.FINE SAND AND SILT, LITTLE ROOTS	
					LIGHT BR.SILT, SOME FINE SAND 2.2	
5					BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, TRACE SILT 5.0	
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: J. BREWER

SHEET 1 OF 1 HOLE NO. **TP9**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP10

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					BR.FINE-MED.SAND, LITTLE SILT & GRAVEL, FEW COBBLES	
					2.0	
					LIGHT BR.FINE-MED.SAND, LITTLE SILT & GRAVEL, SOME COBBLES & BOUDLERS	
5					5.0	
					LIGHT BR.FINE-CRS.SAND, SOME GRAVEL & COBBLES, LITTLE SILT	
					8.5	
					BOTTOM OF TEST PIT @ 8.5'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T. CZMYR

SHEET 1 OF 1

HOLE NO. TP10

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP11

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					BR.SILT, SOME FINE SAND, TRACE ROOTS, FEW COBBLES	
5					LIGHT BR.SILT AND FINE SAND, TRACE GRAVEL, FEW COBBLES & BOULDERS 5.0	
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T.CZMYR

SHEET 1 OF 1

HOLE NO. **TP11**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP12

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.66	
					LIGHT BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL & COBBLES, FEW BOULDERS	
					LIGHT GREY/BR.SILT, SOME FINE SAND, TRACE ROOTS 3.5	
5						
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T.CZMYR

SHEET 1 OF 1

HOLE NO. **TP12**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP13

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.40	
					LIGHT BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, TRACE ROOTS 1.5	
					LIGHT BR.SILT, LITTLE FINE SAND	
5					6.0	
					LIGHT BR. SILT, LITTLE FINE SAND, FEW BOUDLERS	
					8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T. CZMYR

SHEET 1 OF 1

HOLE NO. TP13

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP14

GROUND WATER OBSERVATIONS
AT 6.5 FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					BR.FINE-CRS.SAND, SOME GRAVEL, FEW COBBLES & BOULDERS, TRACE SILT	
					4.0	
5					BR.FINE-CRS.SAND, LITTLE GRAVEL, FEW COBBLES & BOUDLERS TRACE SILT	
					8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T. CZMYR

SHEET 1 OF 1

HOLE NO. **TP14**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP15

GROUND WATER OBSERVATIONS
AT 6.5 FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.25	
					BR.FINE-CRS.SAND, SOME GRAVEL, FEW COBBLES & BOULDERS, TRACE SILT	
					3.8	
5					BR.FINE-CRS.SAND, LITTLE GRAVEL, FEW COBBLES & BOUDLERS, TRACE SILT	
					8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T.CZMYR

SHEET 1 OF 1

HOLE NO. **TP15**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP16

GROUND WATER OBSERVATIONS
AT 7.0 FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					DARK BR.FINE-MED.SAND, SOME SILT, FEW COBBLES, TRACE ROOTS	
					GREY BR.FINE-MED.SAND AND SILT 3.5	
5					GREY/BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES 6.5	
					BOTTOM OF TEST PIT @ 8.0' 8.0	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T.CZMYR

SHEET 1 OF 1

HOLE NO. **TP16**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP17

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/9/20
FINISH DATE 10/9/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.17	
					BR.FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES & BOULDERS, TRACE ROOTS	
					4.0	
5					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL, FEW COBBLES & BOULDERS, TRACE ROOTS	
					7.0	
					BOTTOM OF TEST PIT @ 8.0' (REFUSAL ON BOULDER)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:

SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON

PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T.CZMYR

SHEET 1 OF 1

HOLE NO. TP17

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP18

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/12/20
FINISH DATE 10/12/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.50	
					BR.FINE-CRS.SAND AND GRAVEL, SOME COBBLES, TRACE SILT	
5					6.0	
					BR.FINE-MED.SAND, TRACE SILT & GRAVEL	
					8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T. CZMYR

SHEET 1 OF 1

HOLE NO. **TP18**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT
LOUREIRO ASSOCIATES

PROJECT NAME
PROPOSED APARTMENT BUILDINGS AT VILLAGE III

LOCATION
VILLAGE APARTMENT ROAD, MONTVILLE, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE				
SIZE I.D.				
HAMMER WT.				
HAMMER FALL				

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

SURFACE ELEV.

HOLE NO. TP19

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 10/12/20
FINISH DATE 10/12/20

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					TOPSOIL 0.25	
					BR.FINE SAND AND SILT, TRACE ROOTS - FILL	
					4.0	
5					DARK BR.FINE SAND AND SILT 4.3	
					GREY FINE SAND AND SILT	
					8.0	
					BOTTOM OF TEST PIT @ 8.0'	
10						
15						
20						
25						
30						
35						

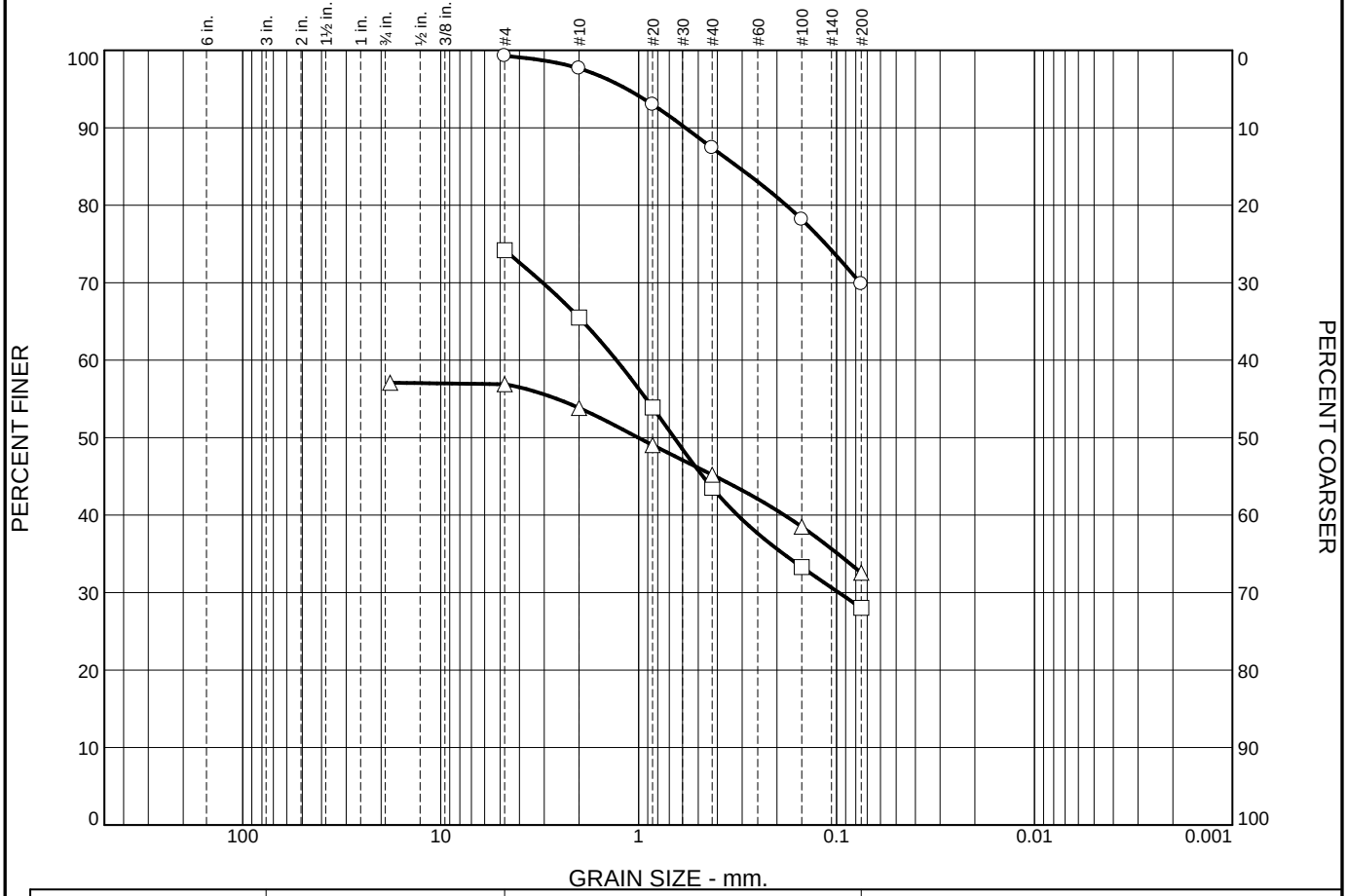
LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER:
INSPECTOR: T. CZMYR

SHEET 1 OF 1

HOLE NO. **TP19**

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○				1.6	10.3	17.6	69.8	
□				8.7	22.0	15.5	28.0	
△				3.1	8.6	12.6	32.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.3165							
□				1.2955	0.6610	0.0976				
△					1.0038					

	Material Description	USCS	AASHTO
○			
□			
△			

Project No. **Client:** LOUREIRO ASSOCIATES

Project: PROPOSED APARTMENT BUILDINGS AT VILLAGE III

○ **Source of Sample:** A-1 **Depth:** 1.0

□ **Source of Sample:** A-4 **Depth:** 1.0

△ **Source of Sample:** A-8 **Depth:** 1.0

Remarks:

○water content = 11.7%

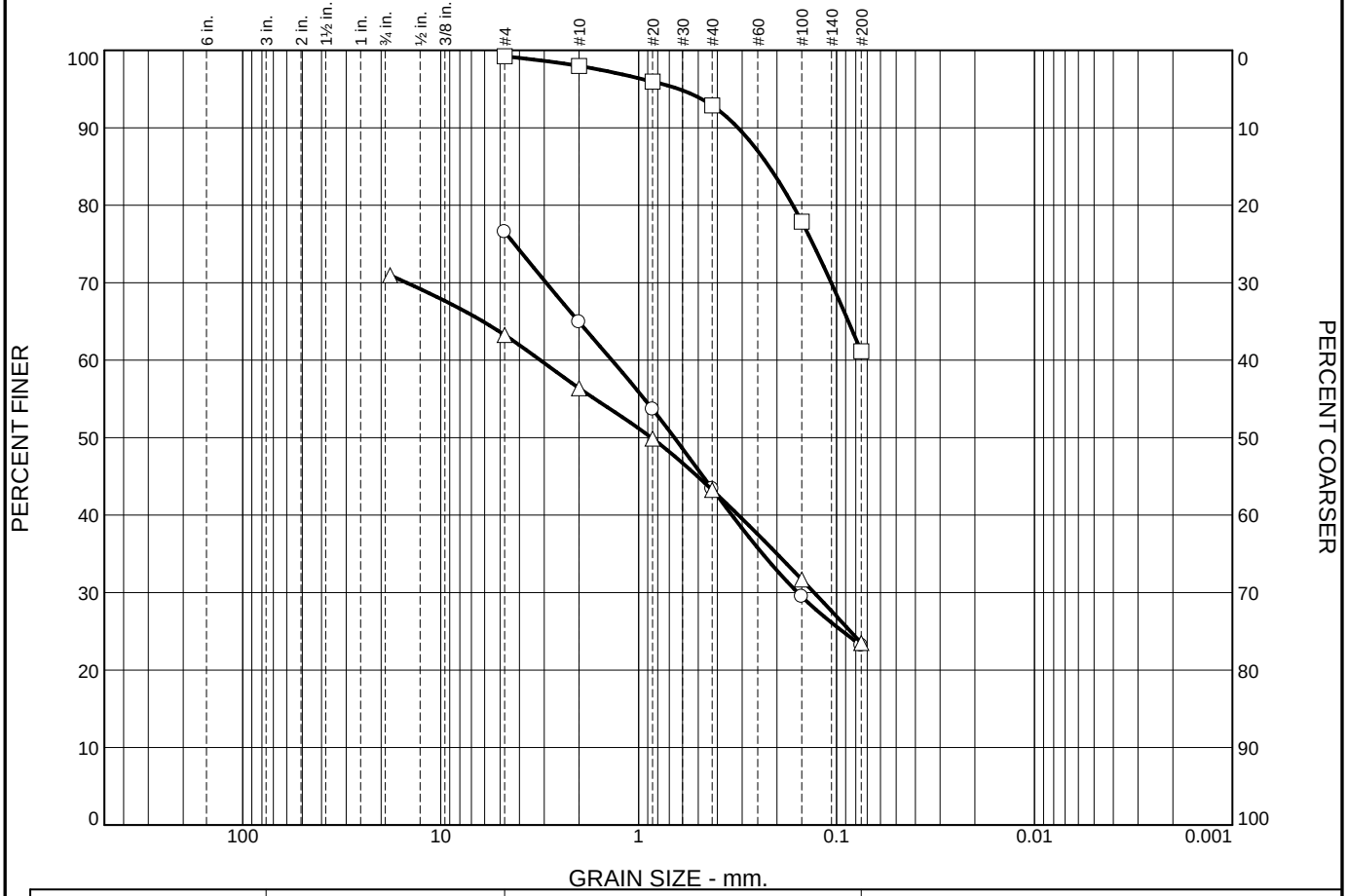
□water content = 12.5%

△water content = 10.0%

CLARENCE WELTI ASSOCIATES, INC.

Figure

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○				11.7	21.5	20.2	23.2	
□				1.2	5.1	31.7	61.2	
△				6.9	13.1	19.8	23.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				1.3653	0.6597	0.1572				
□			0.2194							
△				3.1341	0.8623	0.1299				

	Material Description	USCS	AASHTO
○			
□			
△			

Project No. **Client:** LOUREIRO ASSOCIATES

Project: PROPOSED APARTMENT BUILDINGS AT VILLAGE III

○ **Source of Sample:** B-10 **Depth:** 1.0

□ **Source of Sample:** B-13 **Depth:** 1.0

△ **Source of Sample:** B-14 **Depth:** 1.0

Remarks:

○water content = 9.7%

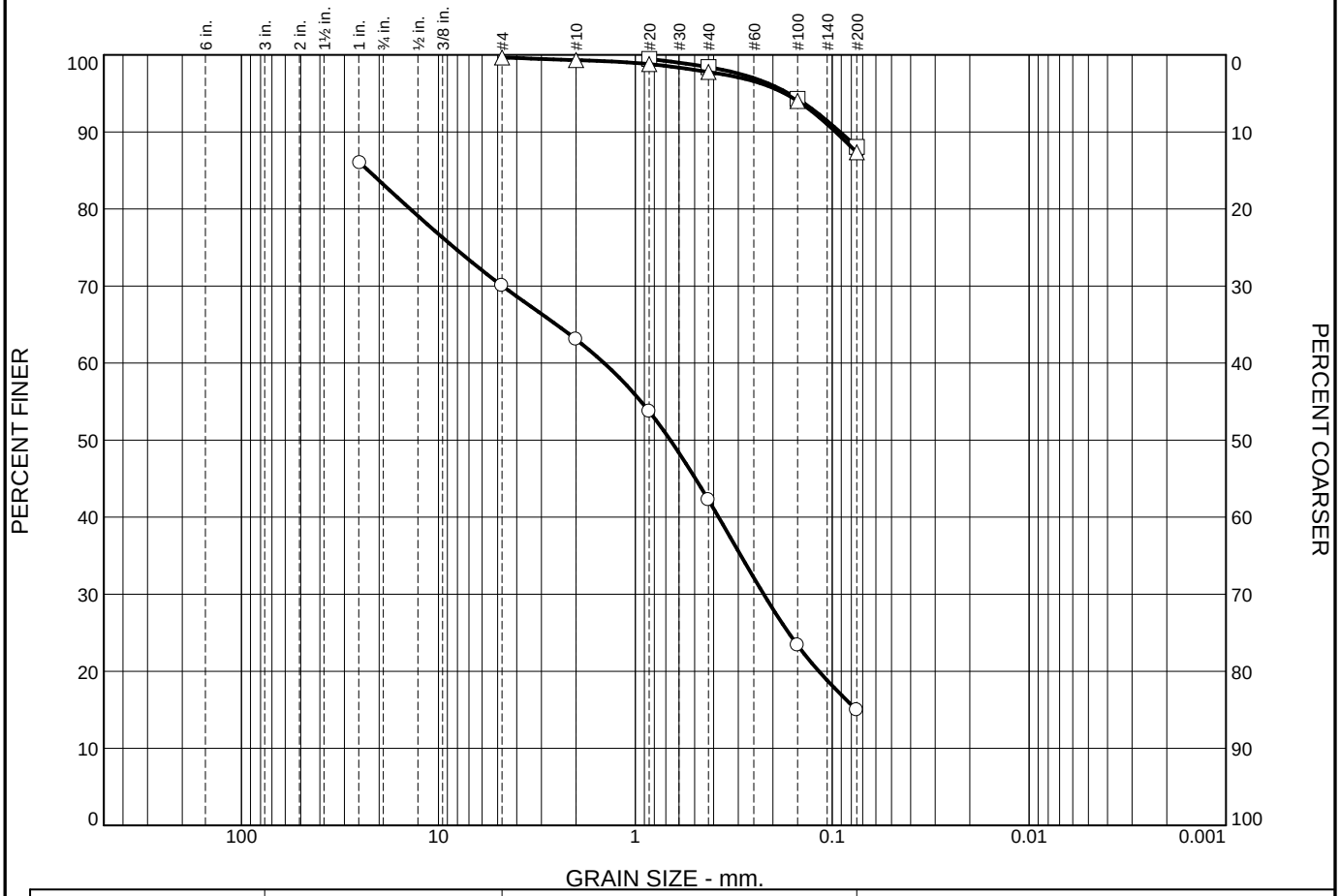
□water content =7.9%

△water content = 9.0%

CLARENCE WELTI ASSOCIATES, INC.

Figure

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			13.2	6.9	20.9	27.2	15.0	
□						10.3	88.1	
△				0.4	1.5	10.4	87.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			22.7184	1.4400	0.6637	0.2228	0.0753			
□										
△										

	Material Description	USCS	AASHTO
○			
□			
△			

Project No. **Client:** LOUREIRO ASSOCIATES

Project: PROPOSED APARTMENT BUILDINGS AT VILLAGE III

○ **Source of Sample:** B-15 **Depth:** 5.0 **Sample Number:** 3

□ **Source of Sample:** TP3 **Depth:** 2.0

△ **Source of Sample:** TP8 **Depth:** 2.0

Remarks:

○water content = 1.7%

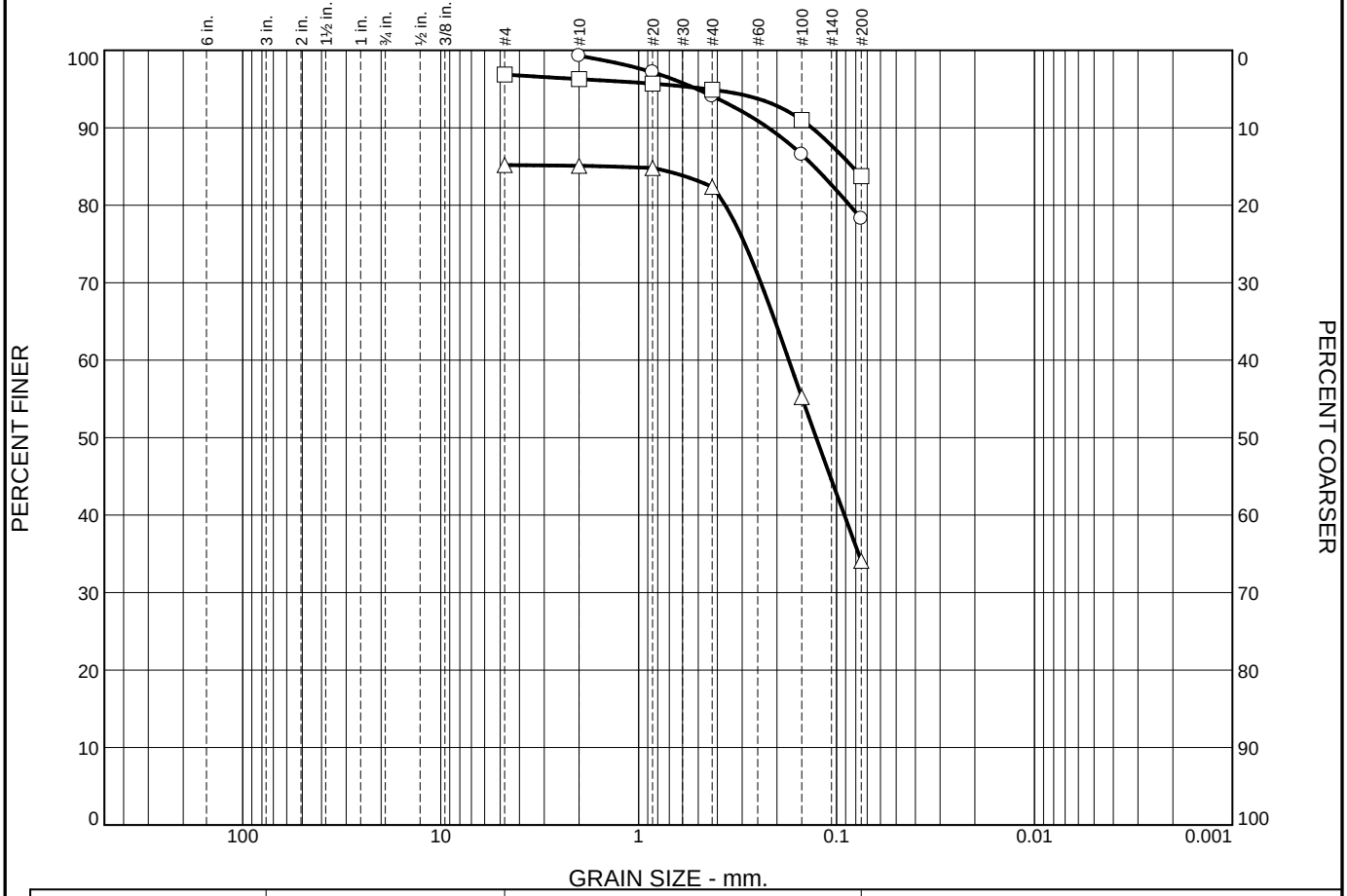
□water content = 6.0%

△water content = 10.0%

CLARENCE WELTI ASSOCIATES, INC.

Figure

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○					5.2	15.8	78.3	
□				0.6	1.4	11.1	83.8	
△				0.1	2.7	48.3	34.1	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1299							
□			0.0834							
△			1.4032	0.1743	0.1268					

	Material Description	USCS	AASHTO
○			
□			
△			

Project No. **Client:** LOUREIRO ASSOCIATES

Project: PROPOSED APARTMENT BUILDINGS AT VILLAGE III

○ **Source of Sample:** C-21 **Depth:** 1.0

□ **Source of Sample:** C-22 **Depth:** 2.0 **Sample Number:** 2

△ **Source of Sample:** C-23 **Depth:** 2.0 **Sample Number:** 2

Remarks:

○water content = 7.7%

□water content = 7.7%

△water conent = 2.1%

CLARENCE WELTI ASSOCIATES, INC.

Figure

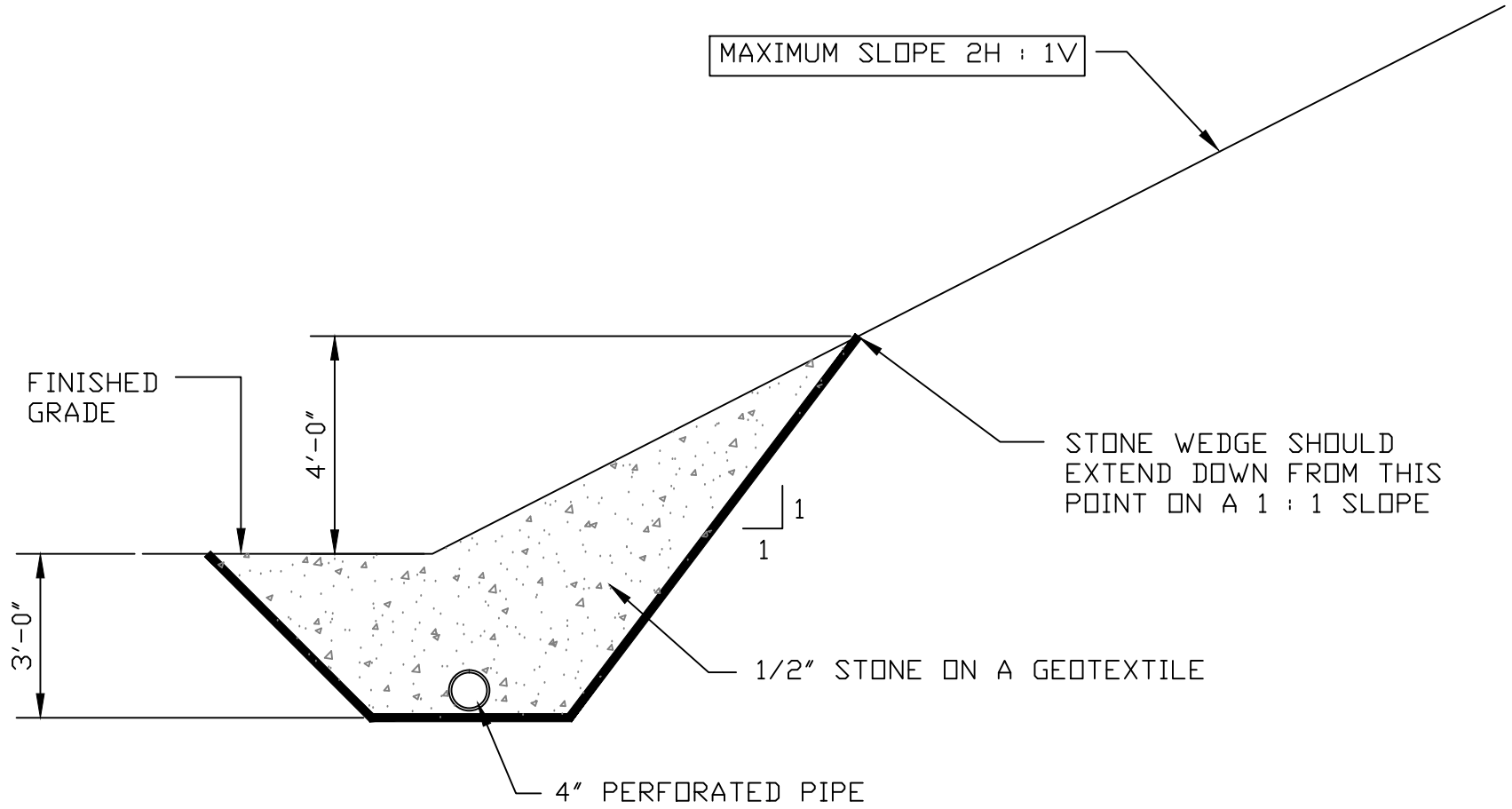
Proposed Apartment Buildings at Village III
Village Apartment Road, Montville, CT

Falling Head Permeability Test
10/26/20

Sample #	Permeability (ft/day)	Sample #	Permeability (ft/day)
TP-1, 5'-8'	109	TP-11, 5'-8'	3.2
TP-2, 5'-8'	9.1	TP-12, 3.5'-8'	1.1
TP-3, 4'-8'	86	TP-13, 1.5'-6'	2.9
TP-4, 4'-9'	155	TP-14, 6"-4'[	97
TP-5, 4.5'-8'	243	TP-15, 3"- 3.8'	332
TP-6, 5'-8'	86	TP-16, 6.5' - 8'	16
TP-7, 4.5'-8'	39	TP-17, 4'-7'	20
TP-8, 4'-8'	49	TP-18, 6"-6'	112
TP-9, 5'-8'	194	TP-19, 4.3'-8'	0.68
TP-10, 5'-8.5'	5.6		

APPENDIX 2

SCHEMATIC OF STONE WEDGE AND UNDER DRAIN AT CUT SLOPES

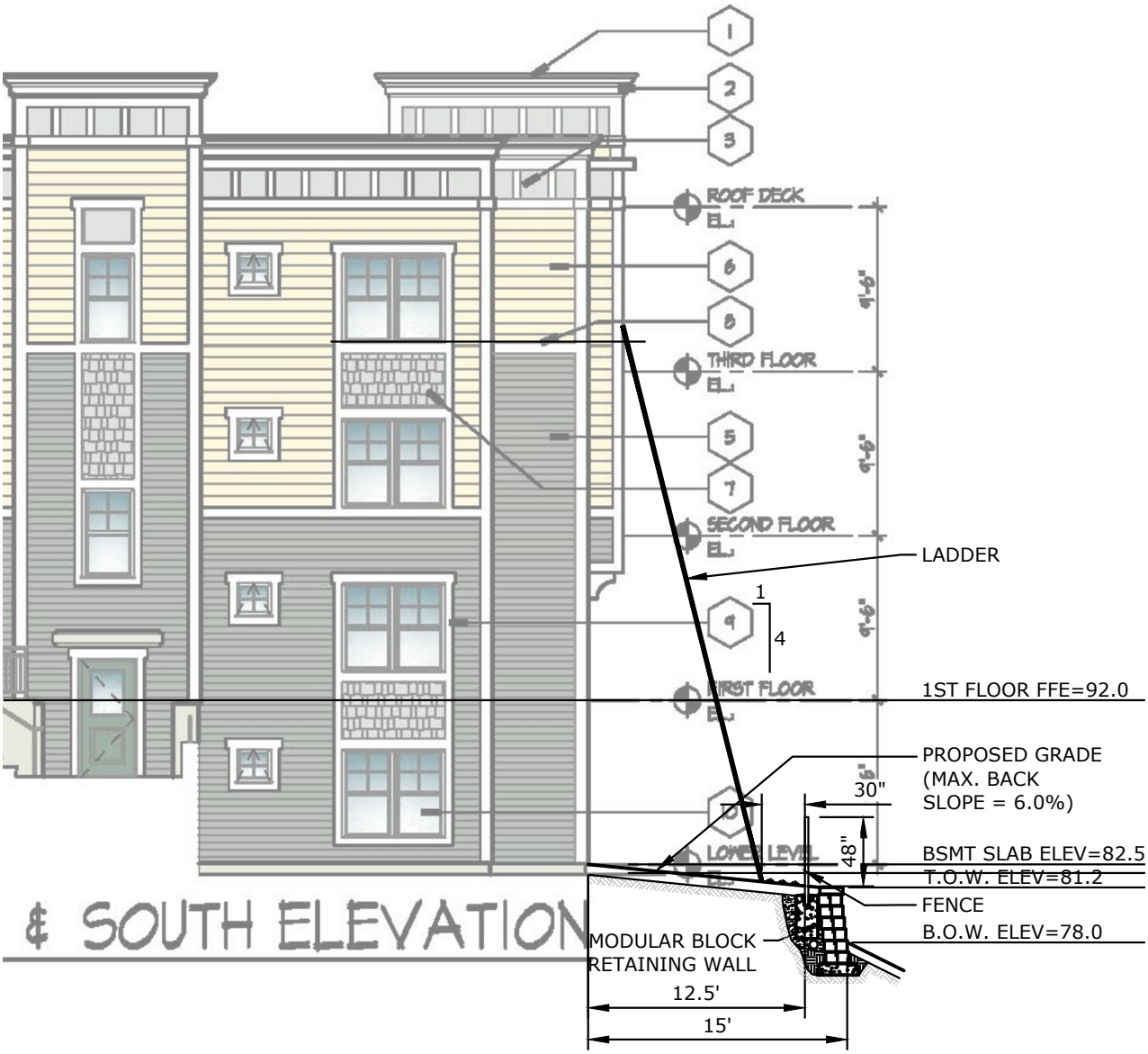


Proposed Village III Apartments
Village Apartment Road, Montville, CT

SHEET NO. :	1
SCALE:	NONE
DATE PREPARED:	10/26/20
REVISION DATE:	NONE

UNDERDRAIN & STONE WEDGE AT EARTH CUT SLOPES

Welti Geotechnical, P.C.
Glastonbury, CT



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An Employee Owned Company • www.Loureiro.com

LADDER DIAGRAM
VILLAGE APARTMENTS - PHASE III

15 JEROME AVENUE, 82 JEROME ROAD AND
232 ROUTE 32, UNCASVILLE - MONTVILLE, CT

PREPARED FOR:

VILLAGE APARTMENTS LLC AND
CONNECTICUT MULTIFAMILY EQUITIES II, LLC

SCALE
1" = 10'

COMM. NO.
88VA9.01

DATE
03/15/2022

1

CLA Engineers, Inc.

Civil • Structural • Survey

317 MAIN STREET • NORWICH, CT 06360 • (860) 886-1966 • (860) 886-9165 FAX

February 4, 2022

Ms. Liz Burdick
Town Planner
310 Norwich-New London Tpke,
Uncasville, CT 06382

RE: Village Apartments Phase III
CLA-6314T

Dear Liz:

We have reviewed the plans and supporting material submitted for the proposed expansion of the Village Apartments – Phase III on Jerome Road. We note the following comments:

1. There are three "dead-end" parking areas, assigned parking and signage is necessary.

2. Pedestrian access from these parking areas and to Jerome Avenue and within the Apartment complex must be provided.

3. There is a proposed walk at the northeast corner of the site which must be extended to Route 92 within the easement area.

4. The handicap ramps must be concrete to accommodate the detectable warning strips.

5. The handicap ramps must be updated to current CT DOT Standards.

6. Access from the ends of Bldg. A must be provided.

7. The concrete and bituminous concrete walks must be clearly distinguished on the plans.

8. Walkway from Bldg. B to the dumpster must be extended as needed.

9. The proposed clean-out in the dumpster pad seems impractical and should be located in a more accessible and protected area.

10. The dumpster gate is indicated to be 19' long per the detail, its swing area must be considered.

11. The top and bottom elevation of the proposed retaining walls must be shown at several points.

12. The block house and associated waterline are missing on the demolition plan.

13. The existing hydrant near Bldg. 2 is not shown (or relocated) on the Layout and Utility Plan.

14. Estimates for cut and fill quantities for the site work must be provided.

15. Notes regarding the blasting on site must be provided. The rock cut legend on the E&S plan must be defined.

16. The note referring to a new sign to replace existing sign on Jerome Ave. is confusing.

17. Exterior lighting must be shown.

18. Spot elevations at appropriate parking lot corners must be provided, the 82 contour is missing in the parking area at the east end of Bldg. C.

19. The proposed parking area and two-way traffic at Building 2 requires an island or other traffic calming methods.

20. The landscaping and ledge area must be coordinated.

21. A bituminous concrete walk detail must be provided on the plans.

22. Test hole information for Holes 4 & 5 must be shown on Sheet 2.

23. The rip rap swale detail must be enhanced.

24. The exposed wall surface of the retaining wall must be noted on the plans.

25. Jerome Ave. has a low slope in front of the proposed access drive. An additional catch basin at the proposed drive is necessary to prevent ponding. The existing catch basin(s) in Jerome Ave. must be rebuilt if connected to by new culvert(s). The existing drainage system in Jerome Ave. ponds due to the low slope of the culverts. Connection of the Infiltrator 1 to CB 7 or to an outlet below the existing drive to Jerome Road must be investigated.

26. The existing drainage at Bldg. 1 outflows directly into wetlands using two curb cuts in the existing access drive, it appears that installing the curb cut at the northwest end of the existing parking area would allow existing drainage to run overland for about 40 feet which would improve the situation.

27. Fig. 4 in the drainage report is illegible.

28. Access to the rear of Bldg's A & B must be less restricted by flattening the proposed 3 to 1 slopes. The area behind Bldg. A must be 15' wide as a minimum prior to the steep sloping.

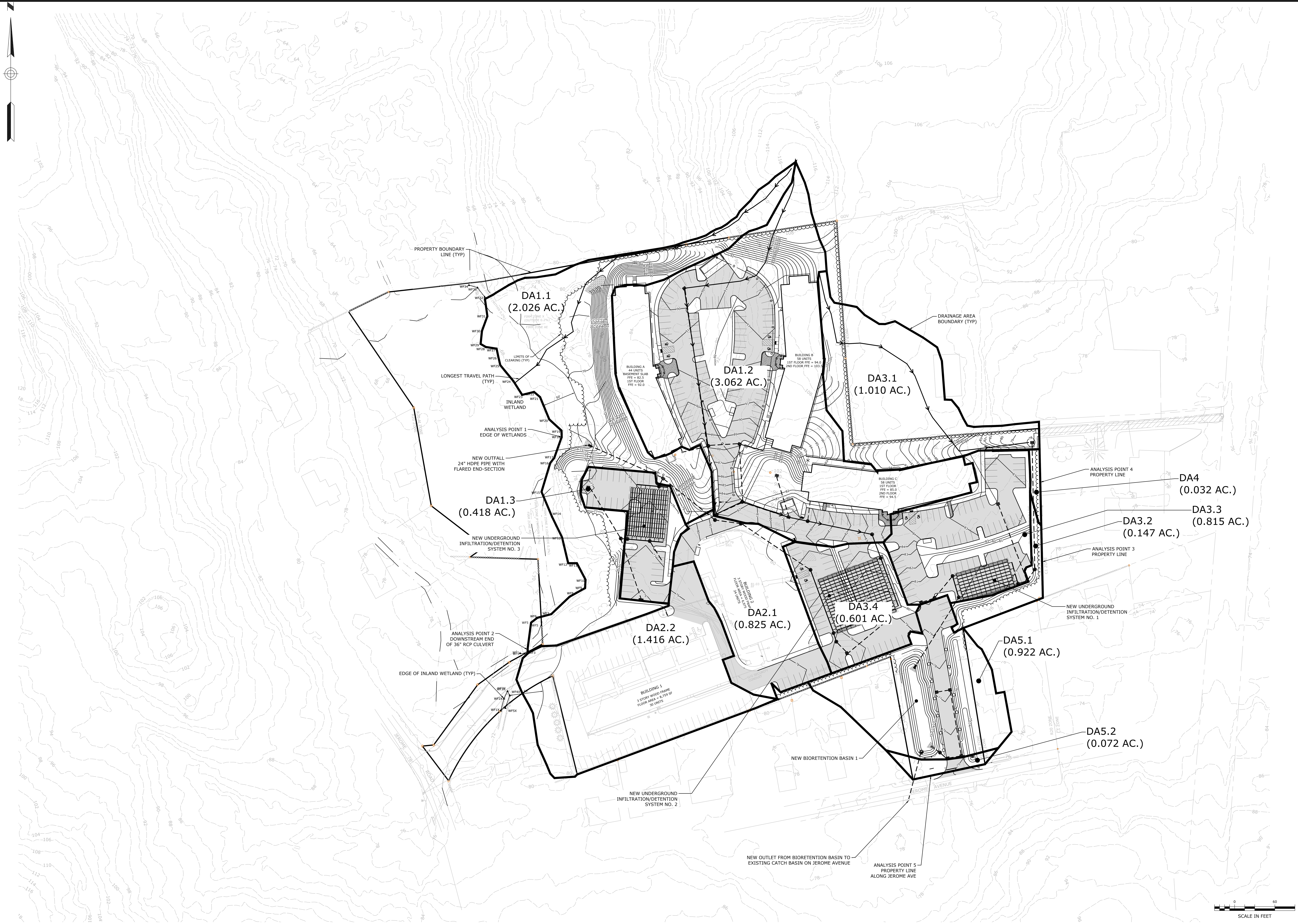
29. An E&S Bond Estimate must be provided for review.

Very truly yours,

Thomas L. Cummings, P.E

TLC:bab

cc: Donald Bourdeau



REV. | DESCRIPTION OF REVISION | DATE | APPR.

STAMP

Loureiro Engineering Associates, Inc.

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SCALE: 1" = 60'
COMM. NO.: 88VA9.01
DRAWN BY: BJM — DATE: 11/15/2021
APPROVED BY: SHM — DATE: 11/15/2021

DRAINAGE REPORT
FIGURE 4
POST-DEVELOPMENT DRAINAGE AREA MAP
VILLAGE APARTMENTS PHASE - III
15 JEROME AVENUE, 82 JEROME ROAD AND 22 ROUTE 32, UNCASVILLE - MONTVILLE, CT

PREPARED FOR:

VILLAGE APARTMENTS LLC AND CONNECTICUT MULTIFAMILY EQUITIES II, LLC

1099 NORTH STREET, WHITE PLAINS, NY

DRAWING

FIGURE 4

SHEET NO. | NO. OF SHEETS