



Geotech Proposal

Date 06-18-2025

Site Address 1113 Ohio Avenue, Dunedin, FL, FL 34698

Customer Details

Valerie Olson
[9703816816](tel:9703816816)
valerieolsonrn@gmail.com
1113 Ohio Avenue
Dunedin, FL 34698

Project Consultant

Andrew Plescher
[\(727\) 677-8272](tel:(727)677-8272)
andrew.plescher@heliconusa.com

Products Included

Foundation Repair

Chemical Grout Injections Around Corners

Chemical Grout Injections in LF-20

Stabilization of Foundation

Subtotal	\$9,609.99
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Subtotal	\$9,609.99
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Total	\$9,609.99
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Payment

Deposit	\$3,203.01
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Balance	\$6,406.98
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Payment Terms:

Remaining balance to be paid in full on last day of installation

Customer Consent

This Contract, along with the Terms and Conditions, the Warranties form the contract (the "Contract") between the Customer and Helicon Foundation Repair Systems, Inc. dba Helicon (the "Contractor"). Balance to be paid in full to foreman on last day of install (Unless financed). Customer must be present on final day of install and final walk-through is to be performed with the job foreman.

Acceptance of Contract - The above prices, specifications, terms and conditions, and separate warranty are satisfactory and hereby accepted. You are authorized to do work as specified. Payment will be made as outlined above or in accordance with the attached Terms and Conditions. Deposit due prior to mobilization, remaining balance due upon completion of project. Helicon reserves the right to cancel the contract at any time.

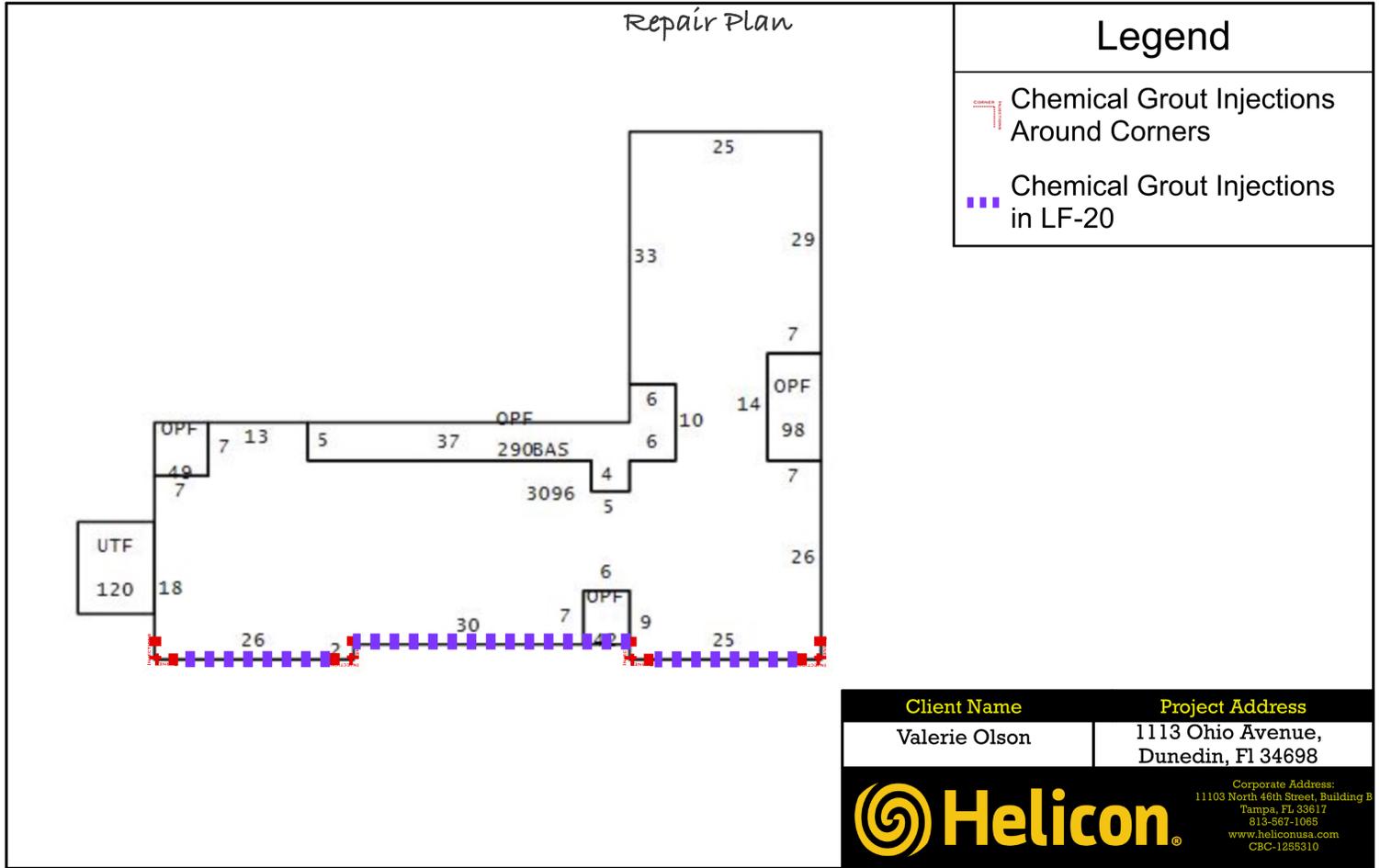


Customer Signature



Authorized Rep. Signature

Project Drawing



Installation Details

Description

Chemical Grout Injections Around Corners

Inject AP-440 structural chemical grout material indicated on job drawing up to 10 feet in depth to stabilize the corners of the foundation.

Chemical Grout Injections in LF-20

Inject AP-440 structural chemical grout material indicated on job drawing up to 10 feet in depth to stabilize the foundation.

Terms and Conditions

Services: Helicon Foundation Repair Systems, Inc. dba Helicon, license no. CBC1255310, is licensed by the Florida Department of Business and Professional Regulation. This Contract for the services requested by Customer (the "Work") is based primarily upon Customer's description of the project and/or the related problem(s) and is intended to remediate those problem(s). Contractor assumes existing construction generally complies with the relevant building codes. Any drawing(s) attached to the Contract are intended solely for illustration purposes, are not to scale, and do not create any additional representation, warranty, or commitment on the part of Contractor in connection with the Work. Start dates and completion deadlines for the Work are approximate and may be affected by events beyond Contractor's control, such as weather, permitting issues, access to property, unforeseen conditions, etc. Helicon cannot and does not provide a date certain by which the Work will be complete. Helicon shall not be responsible for Schedule delays due to acts of God, strikes, lockouts, material shortages, fire, storm, theft, vandalism, or other causes beyond Helicon's control. In no event shall Helicon be liable to Customer for any damages for delay or loss of use. The Work will be completed in a workmanlike manner according to the standard practices of the industry, and Contractor will comply with local permitting, inspection, and zoning requirements.

If Lift is Desired: Customer acknowledges that Contractor will attempt to lift, and that lift is likely, but lift is not guaranteed. The customer must be present throughout the actual lifting, or straightening process, to consult with our Foreman. The Foreman will be able to provide a timeline on when the lifting process will occur to ensure the customer will be available. Helicon cannot guarantee structures, concrete, walls or floors to be perfectly level or plumb. Generally, the Contractor can lift or straighten any structure to be level or plumb; however, this may result in damage to the building, patio and/or pool finishes (interior or exterior). As such, the customer shall be solely responsible to dictate to the Helicon crew how far to manipulate any structure or support toward level or plumb and is, therefore, Customer is also responsible for any resultant damages. Helicon will endeavor to advise the customer in advance if the degree of manipulation requested is compromising the structure or finishes of the building; however, it may not always be possible to foresee or to predict exactly how it may be affected. If the customer is not present and they would like to have the Contractor re-attempt any lifting, an additional mobilization fee of \$300 will be charged.

Customer's Responsibility:

A. Cosmetic Repairs: Unless specifically noted in the Contract, Contractor is not responsible for any cosmetic repairs. Rather, Customer is responsible for any resetting and releveling of pavers, broken pavers, finished carpentry, pool coping/pool tiles, painting, paneling, repointing, electrical work, extending discharge lines, replacement of floor tiles, carpeting, paneling, decorative concrete, stained surfaces, etc. that may be necessary after Contractor has completed the Work, unless such repairs are specifically identified in the Contract.

B. Landscaping: When trenching or excavation is required, Contractor will backfill and compact soil to the best of its ability; however, Customer may need to add more topsoil at a later date if the excavated area settles. Customer is also responsible for any landscaping, reseeding, and resodding that may be necessary after Contractor has completed the Work.

C. On-Site Meetings: Customer shall meet with Contractor on-site before the Work begins and shall meet with Contractor on-site when the Work is completed and ready for inspection such that Contractor can explain the Work and finalize payment by Customer. **Customer shall be responsible for being present on-site during any attempts to lift any part of the structure and/or concrete pavement. If the customer is not present and they would like to have the Contractor re-attempt any lifting, an additional mobilization fee of \$300 will be charged.**

D. Removal and/or Replacement: Any associated fees/costs for the removal and/or replacement of personal contents and/or obstructions (including but not limited to) – pavers, furniture, appliances, cabinets, fixtures, floor coverings, HVAC, pool pumps, screen enclosures, low overhead clearances and pavers are not included in this proposal unless otherwise noted. This work should be performed by contractor(s) who specialize in these areas/ specialty trades.

E. Utilities: Contractor will call the appropriate utility protection service or damage prevention authority (i.e., 811 or "Miss Utility") to have all public underground utilities located. If Customer lives at a rural address, public lines will only be located to the pole or Customer's property line. Customer is responsible for marking any private lines such as satellite dish cables, propane lines, low voltage lighting wires, sprinkler system lines, security system wires, services to outbuildings and swimming pools, etc. Unless otherwise stated, Customer assumes all responsibility for damage caused to hidden, buried, or unmarked fuel/utility/service/private lines. Unless otherwise noted, electrical work is not included in this Contract and problems with electrical connections are the responsibility of Customer.

F. Water Drainage: Customer agrees to maintain positive drainage away from the repaired area(s) which includes but is not limited to: keeping gutters clean and in good working order and directing downspouts a sufficient distance away from the repaired area(s).

G. Access and Personal Property: Customer shall provide access to the areas where the Work is to be performed and shall furnish utilities of electric and water at no cost to Contractor. Customer shall prepare such areas so that Contractor can begin work, including moving all items at least 10 feet away from areas where Work is to be performed or move items 4 feet away from the perimeter and adequately sealing off living space from work areas. Customer shall remove or protect personal property, inside and outside of the residence, including but not limited to carpets, rugs, shrubs and plants, and Contractor shall not be responsible for said items. In the event that the removals have not been completed by the scheduled start date for Work, Customer shall be assessed a trip fee of \$300. Contractor may offer, but is not required, to assist (i) in the preparation of the Work areas and/or (ii) in the removal and replacement of drywall, paneling, flooring, finish carpentry, wall coverings, or landscaping at a rate of \$40 per man hour.

H. Representations: Customer warrants that except as described in the request for service, all electrical, plumbing, HVAC, restoration, and handyman services located on the property are in good repair and condition and agrees to indemnify Contractor for any defective conditions that exist prior to or that occur after performance of the Work through no fault of Contractor. Customer is responsible for protecting the components that Contractor provides from future damage and shall follow all instructions provided in maintaining and protecting such components.

Change Order: Contractor reserves the right to amend the scope of the Work in order to best address the project and/or problems. Contractor reserves the right to substitute a product with an equivalent or superior product. Contractor reserves the right to request change orders for extra work required because of conditions unforeseen based on the original information obtained during the proposal stage. Any amendments to the Work, including without limitation, an addition to, deduction from, or other revision to the Work, the Schedule, or the Compensation, shall be in a written document signed by both parties herein ("Change Order"). The contractor is not required to make changes to Work unless pursuant to a prior written Change Order. All materials and labor previously furnished and executed will be paid by Customer.

Notice of Cancellation: Should you need to cancel or move your start date, please give at least 72-hour notice. You may CANCEL this transaction, without any penalty or obligation, if the request to cancel is more than 72 hours before 8am on the morning of the Work start date. If you cancel, any property traded in, any payments made by you under the Contract or sale, and any negotiable instrument executed by you will be returned within 10 BUSINESS DAYS following receipt by Contractor of your cancellation notice, and any security interest arising out of the transaction will be canceled. Any work performed prior to cancellation not limited to permitting and engineering fees would need to be paid in full. To cancel this transaction, email, mail or deliver a signed and dated copy of this cancellation notice or any other written notice, to: Helicon Foundation Repair Systems, Inc. dba Helicon at 11103 N 46th Building B., Tampa, FL 33617 or info@heliconusa.com. If 72 hours before 8am on the morning of the start date this transaction has not been canceled, then the deposit will be non-refundable.

Acceptance of Contract: By signing the Contract, Customer acknowledges that he/she understands and accepts all terms, the Terms and Conditions and the Warranties, and desires to enter into a contract with Contractor for the completion of the Work. Customer's signature authorizes Contractor to perform the Work as specified in the Contract. The Contract may be withdrawn by Contractor if it is not accepted within thirty (30) days from the date of delivery.

Compensation: Customer agrees to pay Contractor compensation as set forth in the Contract. Payment must be made in full upon completion of the Work, and Customer acknowledges that the final invoice may include Change Orders approved by both Contractor and the Customer for any additional Work performed after the Effective Date of this Agreement. "Compensation" shall mean the funds to be paid by Customer to Contractor in consideration of Contractor's obligations under this Agreement or any approved Change Order. Failure by Customer to make payments when due shall constitute a breach of the Contract. A service fee of \$25 will be charged for each returned check, and interest at a rate of 1.5% per month shall be applied to any amounts owed by Customer to Contractor (both pre-judgment and post-judgment) if Customer fails to pay the amounts owed for the Work as agreed.

Notice and Contractor's Right to Cure: Customer shall promptly report, in writing, any problems with the Work to Contractor. Expenses incurred will be the sole responsibility of the customer if Helicon is denied the first opportunity to cure. If the problem with the Work is attributable to Contractor, Contractor will begin to repair/correct the problem within fourteen (14) days of receipt of written notice and shall complete the repair/correction in a reasonable time. The Customer must submit this notification in writing via e-mail and/or certified mail to 11103 N 46th St. Building B, Tampa, FL 33617. Helicon will always do its best to remedy any outstanding issues. Regardless of outcome, this does not relinquish the customer's obligation to make timely final payment.

Seawall Soil Stabilization: Customer acknowledges that Helicon's SWRP-1 Foam Injections are solely intended to provide strength and support to the problematic Soils by solidifying and stabilizing the Soils and for no other purpose whatsoever. For the avoidance of doubt, Helicon makes no representations or warranties that the SWRP-1 Foam Injection(s) will provide any structural support to the Seawall, or that the SWRP-1 Foam Injection(s) will lift pavers or any other material on top of the Soils. Customer further acknowledges that Helicon shall not be responsible for any damage, deficiencies, or defects (each, a "Defect" and collectively, the "Defects") in the Seawall, pavers, tiles, landscaping, or other improvements on the Property or adjacent property (collectively, the "Improvements"), whether such Defects are pre-existing or arise in the future, whether known or unknown, foreseeable or unforeseeable, or discoverable or undiscoverable. Customer expressly agrees that any claims, damages, losses, costs, or expenses arising from or related to any Defect (collectively, the "Claims"), whether incurred by Customer or a third party, shall be the sole responsibility of the Customer, and Customer hereby agrees to indemnify, defend, and hold Helicon harmless from and against any such Claims. Helicon hereby disclaims any and all warranties and guarantees, whether express or implied, related to the Seawall or any Improvements, and any warranties or guarantees provided by Helicon under this Agreement shall solely apply to the solidification and stabilization of the problematic Soils and shall not extend to the Seawall or any other Improvements.

Insurance: Contractor represents and warrants that it maintains insurance as set forth in the Contractor's Certificate of Liability Insurance, which can be made available upon request.

Disputes: The Contract shall be governed by the law of the place where the project is located, excluding that jurisdiction's choice of law rules. Except for instances of failure to pay the full amount of the Contract, any claim, dispute, or other matter in controversy arising out of or related to this Contract or breach thereof shall be settled by arbitration administered by the American Arbitration Association ("AAA") in accordance with its Construction Industry Arbitration Rules in the place where the project is located, unless another location is mutually agreed upon, and judgment on the award rendered by the single arbitrator appointed to decide such proceeding may be entered in accordance with applicable law in any court having jurisdiction thereof. The fee schedule is listed on the AAA website at https://adr.org/sites/default/files/Construction_Arbitration_Fee_Schedule_0.pdf.

The arbitrator has the discretion and authority to award such remedies as may be available under applicable law. Each party shall be responsible for its own attorneys' fees for the arbitration.

If payment in full is not made when due, Contractor is entitled to proceed with litigation and may recover all expenses of collection, including attorneys' fees, court costs, court reporter fees, and expert witness fees, in such amount as the court may adjudge reasonable. Contractor is also entitled to recover interest on the unpaid amount from the date due until paid at the rate of 1.5% per month. EACH PARTY TO THIS CONTRACT FOR ITSELF, ITS SUCCESSORS AND ASSIGNS, WAIVES ALL RIGHTS TO TRIAL BY JURY FOR ANY CLAIM, DISPUTE, OR OTHER MATTER IN CONTROVERSY ARISING OUT OF OR RELATED TO THIS CONTRACT.

Attorneys' Fees: The prevailing party in any lawsuit, arbitration, appeal, bankruptcy, or other legal proceeding arising out of or related in any way to this Agreement shall be entitled to recover from the non-prevailing party all reasonable attorneys' fees and costs incurred in connection with said legal proceeding, including all reasonable attorneys' fees and costs incurred in attempting to collect any sum rendered against the other party under a judgment or award in the legal proceeding.

Governing Law; Venue: This Agreement shall be interpreted and governed by the laws of the State of Florida. Venue for any action that includes a claim to foreclose a construction lien shall be the County in which the property subject to the lien is located. Venue for any other litigation that is not subject to arbitration, whether initiated by the Customer or Helicon, shall lie exclusively in Hillsborough County, Florida, and the Customer hereby waives any and all rights it may otherwise have to the selection of venue.

Assignment: This Contract will be binding upon the parties hereto and their respective successors and assigns. This Contract is not assignable without the written consent of both parties.

Miscellaneous: This Contract constitutes the entire agreement of the parties. All prior agreements, whether written or oral, are merged herein and shall be of no force or effect. This Contract shall not be modified except in writing signed by both parties. The waiver by any party of a breach or the failure to enforce any provision of this Contract shall not operate as a continued waiver or agreement or be construed as any other waiver or agreement. The validity, performance, and construction of this Contract shall be governed and interpreted in accordance with the law of the place where the project is located. If any term, condition, or provision of this Contract is found unenforceable by a court of law or equity, this Contract shall be construed as though that term, condition, or provision did not exist, and its unenforceability shall have no effect whatsoever on the rest of this Contract.

Signatures: This Contract may be executed in any number of counterparts, each of which shall, when executed, be deemed to be an original and all of which shall be deemed to be one and the same instrument. This Contract may be executed by facsimile or electronic signature pages which shall have the same force and effect as original executed signature pages. The person signing below for Customer represents that he/she has authority to act on behalf of the owner(s) of the property described in the Contract. The "Effective Date" of this Agreement is the last date that either Customer or Helicon executes this Agreement.

Limitation of Liability: The total liability of Helicon, its directors, officers, shareholders, employees, agents, and affiliates for any conduct or Work related to or arising under this Agreement, whether in tort or contract, shall be limited to actual damages sustained by Customer, the total of which shall not exceed the total amount of payments made by Customer to Helicon under this Agreement, and such amount shall be the sole and exclusive remedy of Customer. In no event shall Helicon, its directors, officers, shareholders, employees, agents, or affiliates be liable for any additional damages, expenses, or costs, including direct, indirect, incidental, special, or consequential damages, or damages for loss of use, profits or revenue.

Indemnification: Customer shall indemnify, defend, and hold harmless Helicon, its officers, directors, agents, employees and representatives from and against all expenses (including reasonable attorneys' fees and expenses and court costs), losses, claims, demands, damages and judgments which arise or are alleged to arise from (i) Customer's breach of this Agreement or (ii) the negligent, willful or intentional misconduct, or dishonest acts or omissions of Customer or Customer's invitees or licensees.

Disclosures In accordance with Florida Statute, Section 713.015 we are providing the following notice for residential property owners:
ACCORDING TO FLORIDA'S CONSTRUCTION LIEN LAW (SECTIONS 713.001-713.37, FLORIDA STATUTES), THOSE WHO WORK ON YOUR PROPERTY OR PROVIDE MATERIALS AND SERVICES AND ARE NOT PAID IN FULL HAVE A RIGHT TO ENFORCE THEIR CLAIM FOR PAYMENT AGAINST YOUR PROPERTY. THIS CLAIM IS KNOWN AS A CONSTRUCTION LIEN. IF YOUR CONTRACTOR OR A SUBCONTRACTOR FAILS TO PAY SUBCONTRACTORS, SUB-SUBCONTRACTORS, OR MATERIAL SUPPLIERS, THOSE PEOPLE WHO ARE OWED MONEY MAY LOOK TO YOUR PROPERTY FOR PAYMENT, EVEN IF YOU HAVE ALREADY PAID YOUR CONTRACTOR IN FULL. IF YOU FAIL TO PAY YOUR CONTRACTOR, YOUR CONTRACTOR MAY ALSO HAVE A LIEN ON YOUR PROPERTY. THIS MEANS IF A LIEN IS FILED YOUR PROPERTY COULD BE SOLD AGAINST YOUR WILL TO PAY FOR LABOR, MATERIALS, OR OTHER SERVICES THAT YOUR CONTRACTOR OR A SUBCONTRACTOR MAY HAVE FAILED TO PAY. TO PROTECT YOURSELF, YOU SHOULD STIPULATE IN THIS AGREEMENT THAT BEFORE ANY PAYMENT IS MADE, YOUR CONTRACTOR IS REQUIRED TO PROVIDE YOU WITH A WRITTEN RELEASE OF LIEN FROM ANY PERSON OR COMPANY THAT HAS PROVIDED TO YOU A "NOTICE TO OWNER." FLORIDA'S CONSTRUCTION LIEN LAW IS COMPLEX, AND IT IS RECOMMENDED THAT YOU CONSULT AN ATTORNEY.

In accordance with Florida Statute, Section 489.1425 we are providing the following notice for residential property owners:

**FLORIDA HOMEOWNERS' CONSTRUCTION
RECOVERY FUND**

PAYMENT, UP TO A LIMITED AMOUNT, MAY BE AVAILABLE FROM THE FLORIDA HOMEOWNERS' CONSTRUCTION RECOVERY FUND IF YOU LOSE MONEY ON A PROJECT PERFORMED UNDER CONTRACT, WHERE THE LOSS RESULTS FROM SPECIFIED VIOLATIONS OF FLORIDA LAW BY A LICENSED CONTRACTOR. FOR INFORMATION ABOUT THE RECOVERY FUND AND FILING A CLAIM, CONTACT THE FLORIDA CONSTRUCTION INDUSTRY LICENSING BOARD AT THE FOLLOWING TELEPHONE NUMBER AND ADDRESS:

Construction Industry Licensing Board
2601 Blair Stone Road
Tallahassee, Florida 32399
Telephone (850) 921-6593
Fax (850) 921-5450

In accordance with Florida Statute, Section 558.005 we are providing the following notice for residential and commercial property owners:

ANY CLAIMS FOR CONSTRUCTION DEFECTS ARE SUBJECT TO THE NOTICE AND CURE PROVISIONS OF CHAPTER 558, FLORIDA STATUTES.

IN WITNESS WHEREOF, Customer and Contractor have caused their duty authorized representatives to execute this Contract as of the date first written above.

Warranties:

These Warranties are in effect only after the Work is completed and Customer has paid in full. If payment is not received, these Warranties are null and void. These Warranties are made in lieu of all other warranties, express or implied, and of all other obligations on the part of Contractor to Customer. There are no other oral or written warranties. There are no warranties which extend beyond the descriptions that appear below, including no warranties of express or implied merchantability and no warranties of express or implied fitness for a particular purpose. These Warranties are transferable to future owners of the structure on which the Work is completed. To transfer the warranties the new property owner(s) must notify Helicon of the transfer of title to property and provide Helicon with a copy of the original signed contract and warranty documentation, all within 30 calendar days of the transfer of the title to property. All warranty claims must be brought prior to the expiration of the applicable warranty period to be valid. Contractor does not warrant products not mentioned herein.

What will Helicon do to Correct Any Problems with Products and/or Workmanship?

To obtain service under this warranty, call Helicon's customer service department at 813-567-1065. Helicon reserves the right to investigate its work and/or remedy an issue(s) as it relates to the services/products that are warranted. If we determine that additional damage has occurred due to a material defect in the workmanship, Helicon will carry out additional repairs and/or replace products free of charge, not to exceed original cost of repairs completed by Helicon.

Definitions. The term "stabilize," as used in these Warranties, shall mean to make unlikely to give way or fail. The term "horizontal movement," as used in these Warranties shall mean bowing. The term "vertical movement," as used in these Warranties shall mean settlement.

Exclusions. THIS WARRANTY DOES NOT COVER, AND CONTRACTOR SPECIFICALLY DISCLAIMS LIABILITY FOR: (a) any product or system that is altered in any way; (b) exterior waterproofing; (c) system damage caused by Customer's negligence, misuse, abuse, or alteration; (d) damage, issues, and conditions incidental to installation, including dust and dirt; (e) changes to wood framing system; (f) damage to personal property of any type; (g) unmarked utility line breakage; (h) private utilities and lines (e.g., sprinkler, plumbing, discharge lines, etc.); (i) damage caused by unforeseen conditions such as mold, asbestos, or lead based paint; (j) removal and/or disposal of any hazardous materials; (k) failure or delay in performance or damage caused by acts of God (flood, fire, storm, earthquake, sinkhole, expansive clays, methane gas, etc.), acts of civil or military authority, or any other cause outside of Contractor's control; (l) damage beyond Contractor's control caused by dry rot, corrosion, termite infestation, and substandard construction; (m) damage done during a lifting operation; (n) basement water seepage, unless a full perimeter drainage system has been installed; (o) heave or any damage caused by it; (p) In addition, this warranty does not cover grout supplied by cement companies or the repair plans created and recommended by geological or structural engineers since Helicon is required to follow the professional recommendations of these entities; and (q) damage caused by lateral movements and forces of hillside creep, land sliding or slumping of fill soils of deep embankments. EXCEPT AS EXPRESSLY SET FORTH, ALL SERVICES, MATERIALS, PARTS AND COMPONENTS PROVIDED BY CONTRACTOR ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, AND CONTRACTOR EXPRESSLY DISCLAIMS ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. HELICON SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING UNDER CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR UNDER ANY OTHER THEORY OF LIABILITY.

Hurricane, Flooding, and Storm Surge Exclusion:

The customer acknowledges and agrees that Helicon's services, including SWRP-1 Foam Injections, are not designed to withstand the effects of hurricanes, tropical storms, flooding, storm surges, or other extreme weather events. These weather-related events may cause damage to the seawall, surrounding soils, or other property improvements, including soil erosion or structural failure of the seawall itself, all of which are beyond Helicon's control. Any damage or erosion resulting from hurricanes, tropical storms, storm surges, or flooding that leads to loss of soil stabilization or further erosion is not covered by this warranty. Should damage occur as a result of such natural disasters, additional soil stabilization services may be necessary. These services will be provided under a new contract and are subject to separate charges. Helicon offers repeat customers a discount on these additional services, as well as priority scheduling to expedite necessary repairs.

Structural Chemical Grout Injections:

Contractor warrants that our Chemical Grout injection process will stabilize the treated foundation areas against further appreciable vertical settlement, "structural damage", for a period of 20 (twenty) years from the date of the installation. Structural damage under this warranty means that the direct area where our injections took place has experienced settlement in excess of acceptable variances as defined in the Florida Building Code. For the purposes of this Warranty, "structural damage" shall mean that the Owner's dwelling has experienced a) interior floor displacement or deflection in excess of acceptable variance as defined in ACI117-80 or the Florida Building Code, which results in settlement-related damage to the interior such that the interior building structure or members become unfit for service or represents a safety hazard as defined within the Florida Building Code. b) foundation displacement or deflection in excess of acceptable variances as defined in ACI318-85 of the Florida Building Code, which results in settlement-related damage to the primary structural members or primary structural systems that prevents those members or systems from supporting the loads and forces they were designed to support to the extent that stresses in those primary structural members or systems exceeds one and one third the nominal strength allowed under the Florida Building Code for new buildings of similar structure, purpose or location. c) damage that results in listing, leaning, or buckling of the exterior load bearing walls or other vertical primary structural members to such an extent that a plumb line passing through the center of gravity does not fall inside the middle one third of the base as defined within the Florida Building Code; or d) damage that results in the building, or any portion of the building containing primary structural members or primary structural systems being significantly likely to imminently collapse because of the movement or instability of the ground within the influence zone of the supporting ground within the shear plane necessary for the purpose of supporting such building as defined within the Florida Building Code. If the Owner believes there is a material defect in the workmanship of the work performed, the Owner shall promptly notify Helicon in writing of alleged material defect. The warranty only covers the foundation/footings where our Chemical Grout was injected and is directly shown on this contract drawing. Helicon does not represent that our Chemical Grout Injections will lift the foundation/footings but rather will stabilize the foundation from further appreciable vertical settlement. The Owner's exclusive remedy pursuant to this Warranty and Helicon's only liability shall be for Helicon to repair the material defect in the workmanship of the work at no

cost to the Owner; provided, however, in no event shall the value of the services, labor and materials provided pursuant to this Limited Warranty exceed the original contract price for the work provided by Helicon.

AP Lift 440

TWO COMPONENT, STRUCTURAL POLYURETHANE FOAM



2-Component

DESCRIPTION

AP Lift 440 is a two component, high strength, high density, hydro insensitive structural polyurethane foam. Unconfined density is approximately 4 lbs/cubic foot (64 kg/cubic meter)

USES

- Stabilizing soil.
- Lifting concrete slabs.
- Filling voids.
- Filling abandoned pipes.
- Supplemental sinkhole remediation.

ADVANTAGES

- High strength.
- Low viscosity.
- Works in wet environments - displaces water.
- Bonds with soil and concrete.
- Traffic ready in 15 minutes.
- Closed cell.

APPLICATION

Note: the following are a few typical application descriptions. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSIS

For slab lifting, soil stabilization, consolidation grouting, and all other forms of geotechnical grouting, it is advised to review soil reports from the job site. Take note of all structural elements and considerations and consult with geotechnical or structural engineers as needed. Locate all utilities prior to drilling or driving pipes into the ground.

PREPARATION OF THE SUBSTRATE

Soil probe spacing is most commonly 4-5' 4-5' (1.22-1.52 m) on center and as needed across the surface of the substrate. Depths will vary from job to job but must be established before work is to begin. Injection Technician should always confirm clearances and paths to injection sites for large equipment and/or Alchemy-Spetec mobile injection rigs.

PREPARATION OF THE PRODUCT

Read the technical and safety data sheets prior to commencement of the injection work.

PREPARATION OF THE EQUIPMENT

Alchemy-Spetec proportioning equipment in Cart System or Rig configurations should be tested to confirm equal flow and pressures from both A and B lines. MixMaster Pro should always be thoroughly inspected for cross-contamination or foreign buildup of any kind prior to injection.

APPLICATION

- Start the injection at the first probe and work way across grid pattern as needed taking note of travel of foam, connectivity to next hole location, and volumes used.
- Do not over pressurize while injecting; the correct injection pressure is the pressure that allows resin to penetrate the soils and/or fill the voids and keep the MixMaster Pro operating properly
- Take note of reaction time of material and be sure to purge injection gun regularly to prevent material curing in the gun.
- If lifting slabs, monitor lift with Alchemy-Spetec Dial Indicator Cranes to prevent over-lift.
- If stabilizing soil, pay attention to volume/vertical distance estimation and for material not penetrating and exiting around probe only.
- Clean the MixMaster gun thoroughly with Alchemy-Spetec pressure pot system, and cap supply lines.
- Run material through the pump as a maintenance step every 7-10 days.

REQUIRED TOOLS

Proportioning pump with heated lines, drill bits, MixMaster Pro injection gun, ports, Alchemy-Spetec Flush, soil probes.

CLEANING AND MAINTENANCE

After the injection, clean the pump with AP Flush 121. Conduct a full Alchemy-Spetec-recommended gun flush after every use. Material can remain in cleaned and capped lines. After injection, remove the packers from the concrete and fill the holes with a fast setting cement or any other appropriate filler material.

COMPLIMENTARY PRODUCTS

½" (12.7 mm) hydraulic tubing, flush pot, dial indicator cranes, airless flush pump, air compressor, ports, AP Flush 121.

ADVICE / FOCAL POINTS

Avoid injecting by temperatures below -4°F (-20°C). In extreme cold conditions it is recommended to warm both components to 60-80 degrees F (16 – 27 degrees C).

TECHNICAL DATA

APPEARANCE

Physical Properties - Cured

AP Lift 440			
Compressive Strength	(ASTM D-1621)	80 p.s.i. or 11,520 p.s.f	5,516 millibar
Tensile Strength	(ASTM D-638)	88 p.s.i.	5,516 millibar
Expansion	(Unconfined)	17-19 times	-

Density	(ASTM-D 1622)	3.75 to 4.25 lb/ft ³	60.07 to 68.08 kg/m ³
Shrinkage	(ASTM D-1042/D-756)	-	-

Properties will vary depending on application conditions.

REACTION TIMES

Reaction Time @ 77° F / 25° C

Initial Reaction Time	20 seconds
Tack Free	45 seconds
90% Full Strength	15 minutes

ESTIMATING QUANTITIES

Consumption has to be assessed on site and is influenced by the amount of water leaking, thickness of the concrete.

PACKAGING

AP Lift 440 is supplied in 10 Gallon Units, 100 Gallon Units and 500 Gallon Units (37.8 Liter Units, 378.5 Liter Units and 1892.7 Liter Units).

SHELF LIFE AND STORAGE

Store between 50° - 80° F (10° - 26° C).

SAFETY PRECAUTIONS

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Safety Data Sheet before use. Safety Data Sheets are available on www.alchemy-spetec.com

When in doubt contact Alchemy-Spetec Technical Service.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. READ MATERIAL SAFETY DATASHEET PRIOR TO EVERY USE.