

RESOLUTION NO. 864

A RESOLUTION APPROVING CHANGE ORDER NO. 1 -  
PARKWAY AVENUE CONSTRUCTION PROJECT.

WHEREAS, the city staff has prepared a report on the above captioned subject which is attached hereto as Exhibit "A"; and

WHEREAS, the City Council has duly considered the subject and the recommendation(s) contained in the staff report; and

WHEREAS, interested parties, if any, have had an opportunity to be heard on the subject.

NOW, THEREFORE, THE CITY OF WILSONVILLE RESOLVES AS FOLLOWS:

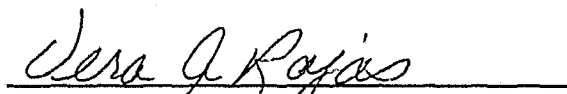
1. That the Wilsonville City Council does hereby adopt the staff report attached hereto as Exhibit "A", with the recommendation(s) contained therein and further instructs that action appropriate to the recommendation(s) be taken.

ADOPTED by the Wilsonville City Council at a regular meeting thereof this 5th day of August, 1991 and filed with the Wilsonville City Recorder this date.



GERALD A. KRUMMEL, Mayor

ATTEST:



VERA A. ROJAS, CMC, City Recorder

SUMMARY of Votes:

Mayor Krummel	<u>AYE</u>
Councilor Chandler	<u>AYE</u>
Councilor Carter	<u>AYE</u>
Councilor Lehan	<u>AYE</u>
Councilor Van Eck	<u>AYE</u>



City of  
**WILSONVILLE**  
in OREGON

30000 SW Town Center Loop E • PO Box 220  
Wilsonville, OR 97070  
(503) 682-1011

**TO: HONORABLE MAYOR AND CITY COUNCILORS**

**FROM: VERA ROJAS, CMC, CITY RECORDER**

**DATE: AUGUST 1, 1991**

**SUBJECT: RESOLUTION CB-R-540-91 - CHANGE ORDER NO. 1 -  
PARKWAY AVENUE CONSTRUCTION PROJECT**


The figures for Change Order No. 1, Parkway Avenue Construction Project were not available at the time the packets were printed. This information will come to you under separate cover.

Thank you.

**COMMUNITY DEVELOPMENT DEPARTMENT**  
**ENGINEERING**  
**MEMORANDUM**

**DATE:** AUGUST 5, 1991

**TO:** MICHAEL KOHLHOFF  
ACTING CITY MANAGER

**FROM:** JIM LONG  
ASSISTANT ENGINEER 

**RE:** PARKWAY AVENUE PROJECT CHANGE ORDER NO. 1

The Engineering Department has completed the plans and quantity estimates for the addition of the Mentor Graphics property retaining wall to the Parkway Avenue project. The estimated bid item cost for the addition should be in the area of \$51,160.

Allowing for a 10% overrun and 15% contractor profit, the total estimated is \$63,950.

The total existing contract cost for Berning Construction is \$535,056.50. Change Order No. 1 would bring that amount up to \$599,006.50. The next highest bidder for this project submitted a bid of \$592,631.90. This made a margin between bidders of \$7,374.60.

I recommend approving a negotiated bid Change Order No. 1 not to exceed \$63,950.

jl:vr

pc: Project file

TM

RETAINING WALL SYSTEMS

# STANDARD UNIT

The Preferred Choice Among Buyers,  
Specifiers and Installers

### STRUCTURAL INTEGRITY

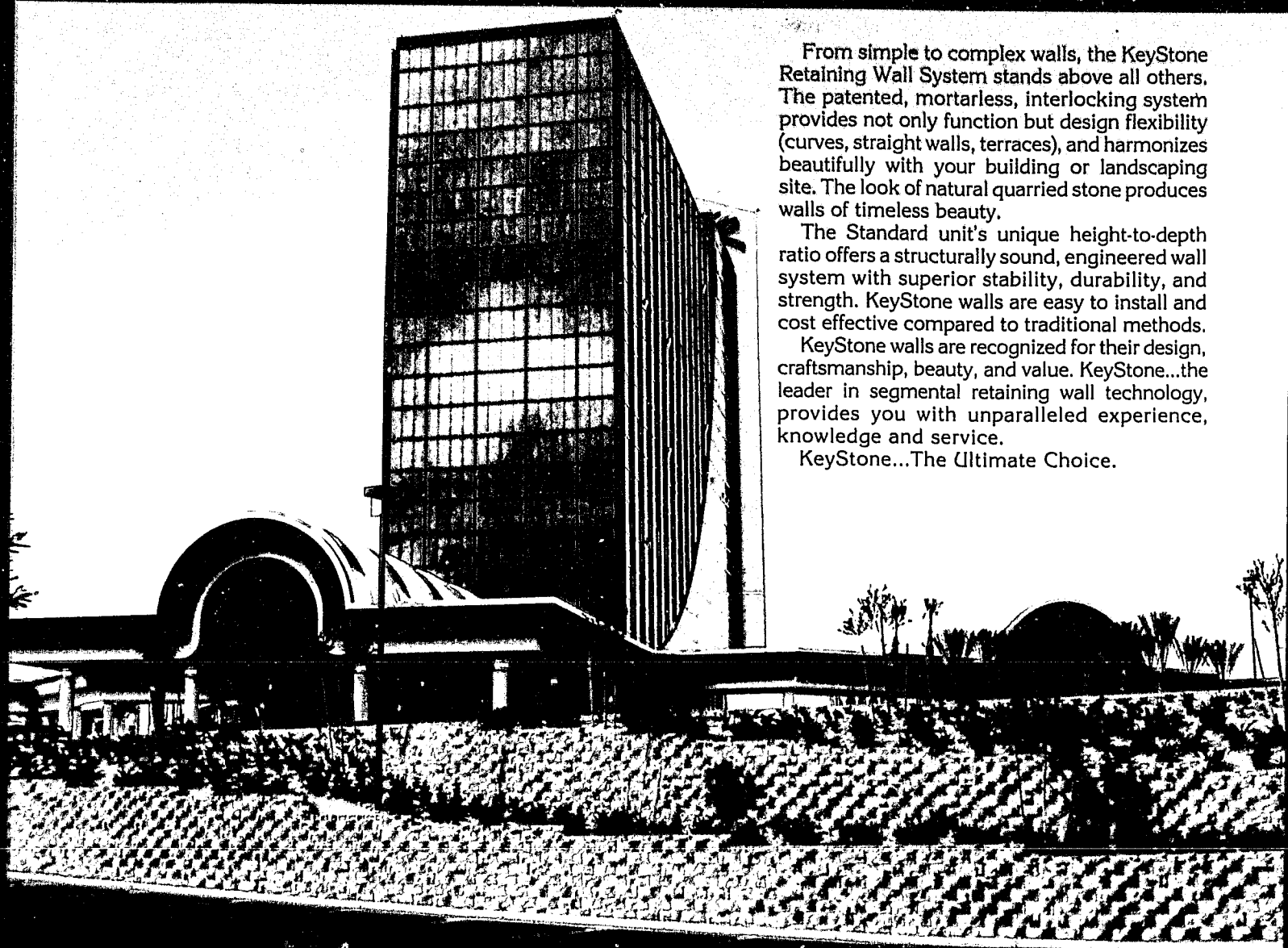
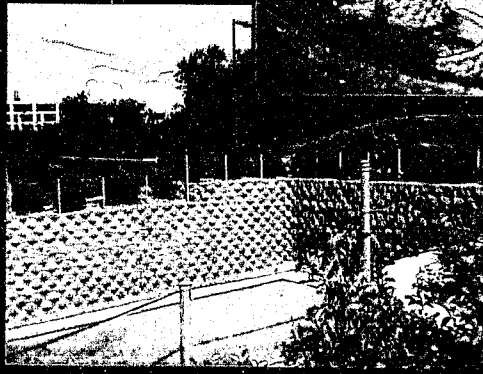
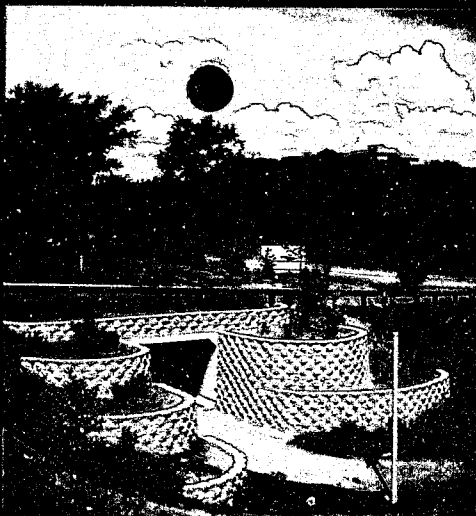
- High strength concrete modules interlocked with reinforced fiberglass pins

### TIMELESS BEAUTY FOR THE LANDSCAPE

- Non-deteriorating • Environmentally safe
- The look of natural stone

### LIFETIME VALUE

- Permanent • Maintenance free
- Enhanced real estate values



From simple to complex walls, the KeyStone Retaining Wall System stands above all others. The patented, mortarless, interlocking system provides not only function but design flexibility (curves, straight walls, terraces), and harmonizes beautifully with your building or landscaping site. The look of natural quarried stone produces walls of timeless beauty.

The Standard unit's unique height-to-depth ratio offers a structurally sound, engineered wall system with superior stability, durability, and strength. KeyStone walls are easy to install and cost effective compared to traditional methods.

KeyStone walls are recognized for their design, craftsmanship, beauty, and value. KeyStone...the leader in segmental retaining wall technology, provides you with unparalleled experience, knowledge and service.

KeyStone...The Ultimate Choice.

# KEYSTONE™

RETAINING WALL SYSTEMS

## STANDARD UNIT

### Installation Guidelines

© 1990 KeyStone Retaining Wall Systems Inc.

The **KeyStone Retaining Wall System** was developed with simplicity of construction in mind.

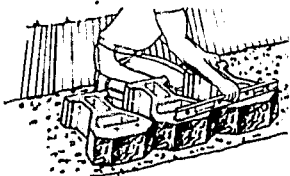
The following steps will guide you from start to finish.

#### STEP 1. PREPARATION OF BASE LEVELING PAD



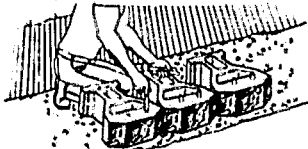
Excavate a shallow trench to the length and width dimensions of your KeyStone wall. Provide space behind the KeyStone unit to allow for granular backfill. Standard modules should be placed on a 6" leveling pad of compacted, well draining granular fill (i.e., sand, 1/2" - 3/4" crushed stone or gravel) at 95% Std. Proctor compaction or equal. We recommend additional trench depth for below grade placement of KeyStone units on a ratio of 1" below grade for each 8" of wall height above grade.

#### STEP 2. INSTALLING THE BASE COURSE

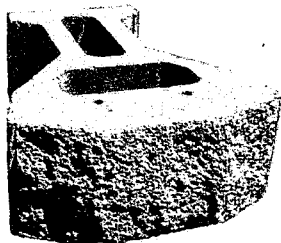


Install the first course of KeyStone Standard modules side by side over the prepared leveling pad. **Level each unit side by side and front to back.** Place the units such that the kidney shaped recess is on the bottom. Make sure units are in correct alignment. Use pins or backside of unit for straight wall alignment. Units should touch side point to side point as diagrammed.

#### STEP 3. INSTALLING INTERLOCKING PINS



Place the 9/16" x 1/2" reinforced fiberglass pins into the paired holes in each module. Once in place, the pins will automatically set back the next course from the units below per step 5.



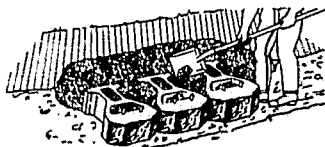
**Size:** 8"H x 18"W x 24"D\*

**Wgt:** 94 lbs. (approximately)

**Exposed Face:** 1 Square Foot

\*Unit color, weight, and depth may vary slightly by region. Consult your local KeyStone representative for current data and product options (dual setback unit, straight sided cap, and straight splitface).  
Specifications subject to change without notice.

#### STEP 4. INSTALLING BACKFILL & COMPACTION

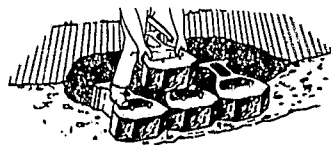


Fill all voids between KeyStone units and behind units. This fill should consist of 1/2" - 3/4" crushed stone or clean, well draining granular fill. This allows for water drainage and compacts easily. Manually compact to eliminate potential settlement.

Backfill behind gravel drainage zone using existing soils. (Note: Heavy clays or organic soils are not recommended due to water holding properties.) Compact to 95% Std. Proctor.

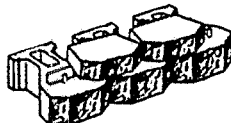
Upon completion of backfill and compaction, sweep the units to remove small pebbles, debris, etc. so the units rest evenly upon one another. Backfill and compact every 8" course.

#### STEP 5. INSTALLING ADDITIONAL COURSES:



Place the next KeyStone Standard module over the positioned fiberglass pins so it bridges two units below in a running bond pattern. Pull the KeyStone module towards the face of the wall until the module makes full contact with both pins. Repeat steps 3, 4 and 5.

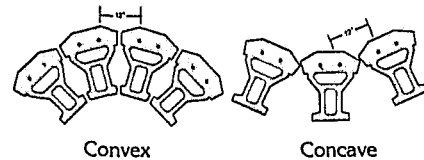
#### STEP 6. INSTALLING KEYSTONE CAPS:



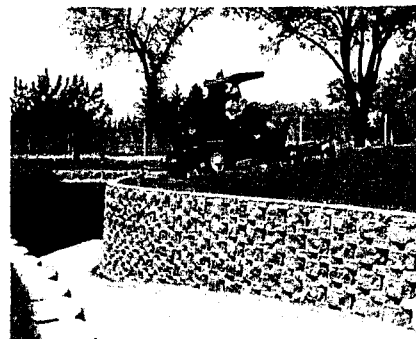
Use KeyStone Cap units (without top surface pin holes) to complete your wall. Place the KeyStone Cap over projecting pins on the unit below. Pull forward to the automatic set back position. Backfill and compact.

#### IMPORTANT CONSIDERATIONS:

1. The base course must be carefully leveled and placed on properly compacted granular fill. When constructing walls less than 3' - 0" high, modules can be placed on firm, undisturbed, inorganic soils.
2. Backfill must occur on a course by course basis.  
*Note:* Only lightweight mechanical compaction equipment should be used within 3' - 0" of the back of the units.
3. In areas of high public accessibility or potential vandalism, we recommend a construction adhesive or epoxy cement be used around the perimeter underside of the cap prior to unit placement.
4. Building curves into your KeyStone retaining wall requires a few special considerations. Convex curves require a small gap between adjacent units (see diagram). For concave curves, touching edges of each unit should be slightly overlapped (see diagram). Gapping and overlapping will vary somewhat with the degree of curvature desired. A general guideline is as follows: At the base course, set units with gap or overlap so pins of adjoining units are 12" apart. (see diagram)



5. A dramatic shadowing and textured effect can be achieved by combining KeyStone Standard with KeyStone Mini units on alternate courses (8" - 4" - 8" etc.).



6. Contact your local KeyStone representative for design options, patented soil reinforcement guidelines on walls exceeding 6' - 0", and water applications.