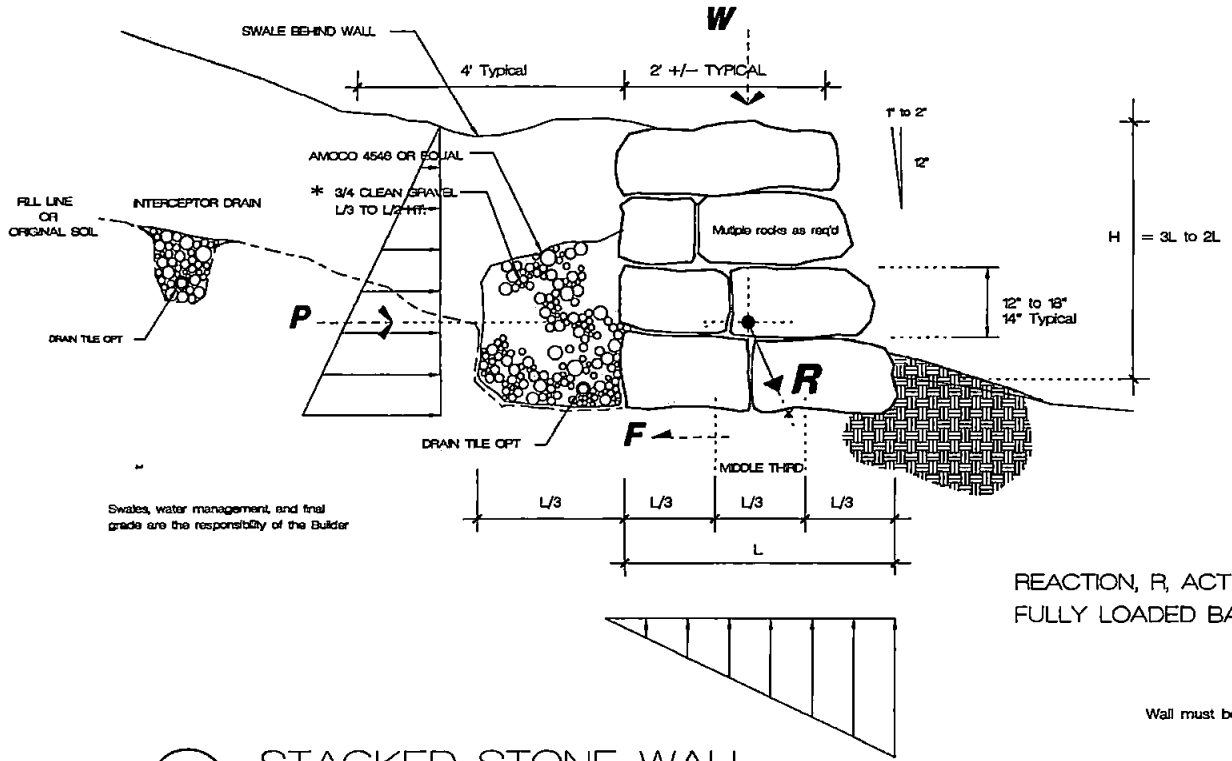


Swales, water management, and final grade are the responsibility of the Builder

SOIL DENSITY – 100 PCF
FRICTION, STONE TO STONE = 0.5
PHI = 30
STONE DENSITY = 175 PCF

	6'	8'	10'	12'
P_y	3620	5163	8259	12096
F (P_x)	5576	7950	12716	18632
Bearing	1412	1488	1766	1911
μN	5747	10719	14780	22935

μN > F

N < P_y + W / AREA : 1500 PSF

SOIL BEARING AND SLIDING FRICTION CONTROL DESIGN

REACTION, R, ACTS IN MIDDLE 1/3rd
FULLY LOADED BASE

Wall must bear on undisturbed soil

NTS 1 S1 STACKED STONE WALL

Cantilevered Wedge, Soil Retention

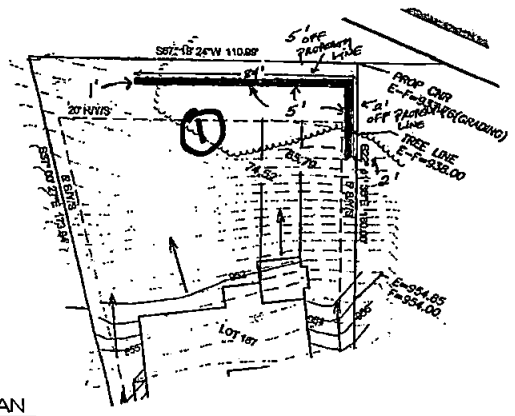
PROJECT DATA

2218 NW Killarney Lane

Lee's Summit, MO

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/14/2025

Brandon Kalwei
Digitally signed by Brandon Kalwei
DN: CN=Brandon Kalwei, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2025.05.14 14:44:28-05'00'



NS 2 S1 KEY PLAN

NOTES ON WALL CONSTRUCTION:

WALL STONE SHALL BE AS PROVIDED BY CONTRACTOR
STACKED STONE WALL SHALL CARRY NO SURCHARGE
PROPERLY BENCH ALL UPHILL SLOPES AND/OR PIER DRIVES AND WALKS
CONSULT ENGINEER IF GROUNDWATER IS ENCOUNTERED
NO DRAINAGE SHALL OCCUR OVER OR BELOW THE WALL
ALL NEARBY DRAINAGE SHALL BE HARDPIPED AWAY FROM THE WALL
THE SUPPORTING BASE MATERIAL SHALL BE UNDISTURBED SOIL
THE SUPPORTING BASE MATERIAL SHALL BE PROPERLY BENCHED
CONSULT ENGINEER IF SOIL BEARING IS NOT UNDISTURBED
GLOBAL STABILITY ANALYSIS IS NOT PART OF WALL CONSTRUCTION
THIS DETAIL IS FOR WALLS TO AND INCLUDING 14' IN HEIGHT
CONSULT ENGINEER FOR WALLS OVER 14' IN HEIGHT

Ken Sidorowicz, PC
Tel. (816) 741-0352

ISSUE DATE
REVISIONS

Keith Scott & Company

STATE OF MISSOURI
KENNETH SIDOROWICZ
NUMBER E-19568
PROFESSIONAL ENGINEER
4/24/25

R1