PLAN VIEW

20 10 0 10 20

SCALE IN FEET
1" = 10'

T NORTH

EXISTING ACCESS
& STORAGE

EXISTING SALT SHED
40' X 60'

EXISTING ASPHALT
APRON & PARKING

EXISTING GRAVEL DRIVE

BRANCH HILL ROAD

1630 1628 1632 1634 1635.95 1636.65 LEDGE 1638.01 1636.64 LEDGE 1637.95 1636.86 TREELINE CUT POTENTIAL LEDGE 1637.28 1637.14 1632.35 1636.25 GRADE
BM TOP BOX 1639.05 1637 1632.05 1636 1634 1636.24 CRNR FENCE TREELINE 1638.35 EDGE PAV 1637.35 1638 1638.82 1640 1631 1632 1634

*NOTE:
1) ELEVATION CONTOURS DERIVED FROM MASSGIS LIDAR DATA. EXISTING CONTOURS FOR BASIC REFERENCE ONLY. BUILDING, DRIVEWAY, FENCE LOCATIONS ARE APPROXIMATE.
2) BENCH MARK IS BASED ON SURVEYED POINT BY W.C.A. IN AUGUST OF 2024.

T North

Walter Cudnohufsky Associates

Landscape Architects/ Planners

Box 489, 455 Bug Hill Road
Ashfield, MA 01330

PHONE: 413-628-4600
FAX: 413-628-0117
E-MAIL: wcala@wcala.com
WEB SITE: www.wcala.com

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No.	Description	Date

Date: 10/15/2024

Scale 1" = 10'-0"

Heath Salt Shed
Heath, MA

Base Map

L0

PLAN VIEW

20 10 0 10 20

SCALE IN FEET
1" = 10'

T NORTH

PROPOSED CONTOURS
EXISTING CONTOURS
WALL DRAIN PIPE
INV. OUT 29.0
GRADE 29.1
TW 31.1
TW 32.1
TW 33.1
TW 34.1
TW 34.1
TW 35.1
GRADE OUT TO MEET
EXISTING SLOPE
RIP RAP EMBANKMENT.
MAX SLOPE 1V:1H
1V:1H
MAX
TS 38.2
TS 38.2
CONCRETE BLOCK
RETAINING WALL SYSTEM.
SEE SHEET L2 FOR DETAILS.
SPOT ELEVATIONS BASED
ON A DURAHOLD SYSTEM.
PROPOSED
SALT SHED
52' X 70'
SHED STRUCTURE AND PAD BY OTHERS
LEDGE
EXISTING SALT SHED
40' x 60'
HP 38.4
STRAW WATTLE INSTALLED UNTIL
VEGETATION IS ESTABLISHED
LEDGE
2 FT WIDE SWALE
APPROX. TREELINE
1V:3H
MAX
TW 35.1
TW 34.1
TW 34.1
GRADE 32.5
TS 37.9
1638
WALL DRAIN PIPE
INV. IN 30.0
LOAM AND SEED
DISTURBED AREAS WITH
CONSERVATION MIX
POLE (APPROX.)
BM 1639.05
T.O. BOX
LOAM AND PLANT
DISTURBED AREAS
STRAW WATTLE INSTALLED UNTIL
VEGETATION IS ESTABLISHED
EXISTING ASPHALT PARKING (TO REMAIN)
BRANCH HILL ROAD
ASPHALT APRON
& PARKING
EXISTING GRAVEL DRIVE
EXISTING FENCE
TRANSFER STATION

*NOTE:
1) ELEVATION CONTOURS DERIVED FROM MASSGIS LIDAR DATA. EXISTING CONTOURS FOR BASIC REFERENCE ONLY. BUILDING, DRIVEWAY, FENCE LOCATIONS ARE APPROXIMATE.
2) BENCH MARK IS BASED ON SURVEYED POINT BY W.C.A. IN AUGUST OF 2024.
3) SPOT ELEVATIONS HAVE BEEN ABBREVIATED DOWN TO ELIMINATE THE THOUSANDS AND HUNDREDS (i.e., 38.2 REPRESENTS 1638.2)

T North

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No.	Description	Date

Date: 10/15/2024

Scale 1" = 10'-0"

Heath Salt Shed
Heath, MA

Site Plan

L1

General Landscape Notes

1. This base plan was compiled from MassGIS contour and aerial information data. The base information presented here is not the result of a professional survey. Existing contours are for basic reference only. Buildings, Driveway, Road, Fences and other site features are approximate. Locations and information regarding underground pipes and utilities is not present and any information regarding utilities and site features should not be considered as exact or complete. Prior to commencing excavation, the excavator shall give adequate advance notice to the Dig Safe Center, the municipal and/or State Public Works Department, and private utility companies, to allow for field location of facilities in the vicinity.

2. If the Contractor observes any field conditions which vary significantly from what is shown on these plans, the contractor shall immediately notify the owner and designer for resolution of the conflicting information.

3. The contractor shall record tie measurements, depths, dimensions, materials, field conditions and other pertinent data about all underground pipes, utilities and structures encountered during the work, both existing and constructed. Contractor shall submit record drawings with this information to the owner and designer prior to completion of the work.

4. The contractor shall immediately report any damage to existing pipes, utilities, or structures to the owner and designer, and obtain directions as to repair, replacement or abandonment.

5. The scope of work includes furnishing and installing all necessary materials for: site work, grading, retaining walls, and drainage outlined on these drawings. All work shall be performed by persons familiar with landscape construction and under the supervision of a qualified foreman.

6. Contractor shall inspect the site and be familiar with all existing conditions prior to submitting his/her bid.

7 The contractor shall verify all property and lot lines existing conditions, utilities, grades and dimensions at the site prior to construction and report any discrepancies to WCA before proceeding.

8. Any errors or omissions on these drawings shall be brought immediately to the attention of the designer.

9. All work to be performed shall conform to all applicable local codes and ordinances.

10. The contractor shall coordinate all work to prevent conflicts between trades and shall report all conflicts or incongruities between new improvements and existing facilities to the designer. It shall be the sole responsibility of the contractor to protect all utilities and structures to remain, and to repair or replace at his/her own expense all utility lines or structures damaged during construction whether shown or not.

11. All (piping/electrical) sleeving, conduit etc. shall be installed prior to the installation of construction items.

12. The site will be kept in a neat, clean and orderly manner during installation and all refuse shall be moved from site after completion.

13. The drawings show only representative and typical details to assist the contractor. They do not illustrate every condition. All attachments, connections, fastenings etc. are to be properly executed in conformance with the best acceptable practices and the contractor is responsible for providing and installing all materials.

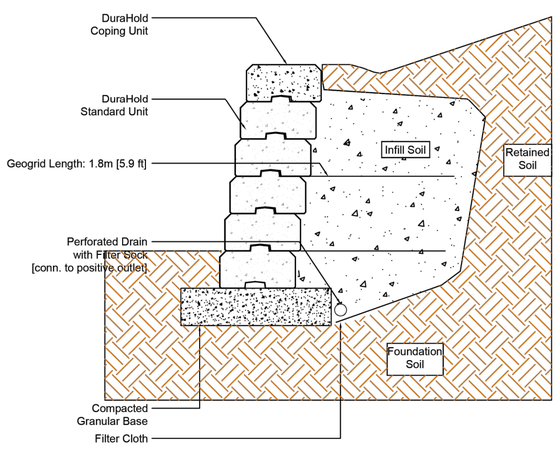
Retaining Wall

Due to the sloping nature of the asphalt parking area and the need for the concrete block construction to begin 6-12" below grade, it may be that a unit block system similar to the Durahold units shown below may be more efficient in the amount of material needed for a retaining wall along the parking area. These units are 6' wide and 2' deep, but only 12" high, allowing the wall to step up and down as needed with less overall wall height.

Included below are typical details for a Durahold system and a 2' x 2' x 6' Block system, with an elevation showing the stepping that should occur to maintain the base required and a level top of wall. Find a local source for 2' x 2' x 6' precast blocks at: https://binblocksupply.com/locations/springfield-ma/. Plain face with chamfered edges preferred.

Walls over 4' in height will require the review of a qualified engineer.

TYPICAL SECTION - NOT FOR CONSTRUCTION



Design Specific Geometric Information

Retaining Wall System	DuraHold w/ Geogrid	Geogrid Type and Manufacturer	See Notes
Maximum Height mm (in)	1830 (72)	Minimum Geogrid LTDS kN/m (lb/ft)	See Notes
Maximum Slope Above Wall	1V:3H	Maximum Slope Below Wall	None
Max. Surcharge Above Wall kPa (lb/sq.ft)	None	Depth of Embedment mm (in)	305 (12)
Batter of Wall	7.12 °	Compacted Base Dimension mm (in)	1228 x 305 (48 x 12)

Design Specific Soil Information

	Soil Region				
	Infill	Retained	Foundation	Base	Drainage
Description (by USCS)	GW Well graded, free draining Granular	CL Inorganic Clays Low Plasticity	CL Inorganic Clays Low Plasticity	GW Well graded, free draining Granular	see infill
Effective Internal Friction Angle	35 °	28 °	28 °	39 °	NR
Moist Unit Weight kN/cu.m (lb/cu.ft)	22 (140)	20 (127)	20 (127)	22 (140)	NR
Effective Cohesion kPa (lb/sq.ft)	NR	NR	NR	NR	NR
Soil Notes	Placed in 150mm (6") lifts and compacted to 95 % SPD.	Undisturbed dense soil or well compacted Eng. fill.	Allowable bearing cap.must exceed 100kPa (2100 psf)	Crushed Gravel (free draining) compacted to 98 % SPD.	Gravel infill must be well graded, angular, free drain w/max. 8 % fines

NR - Not Required

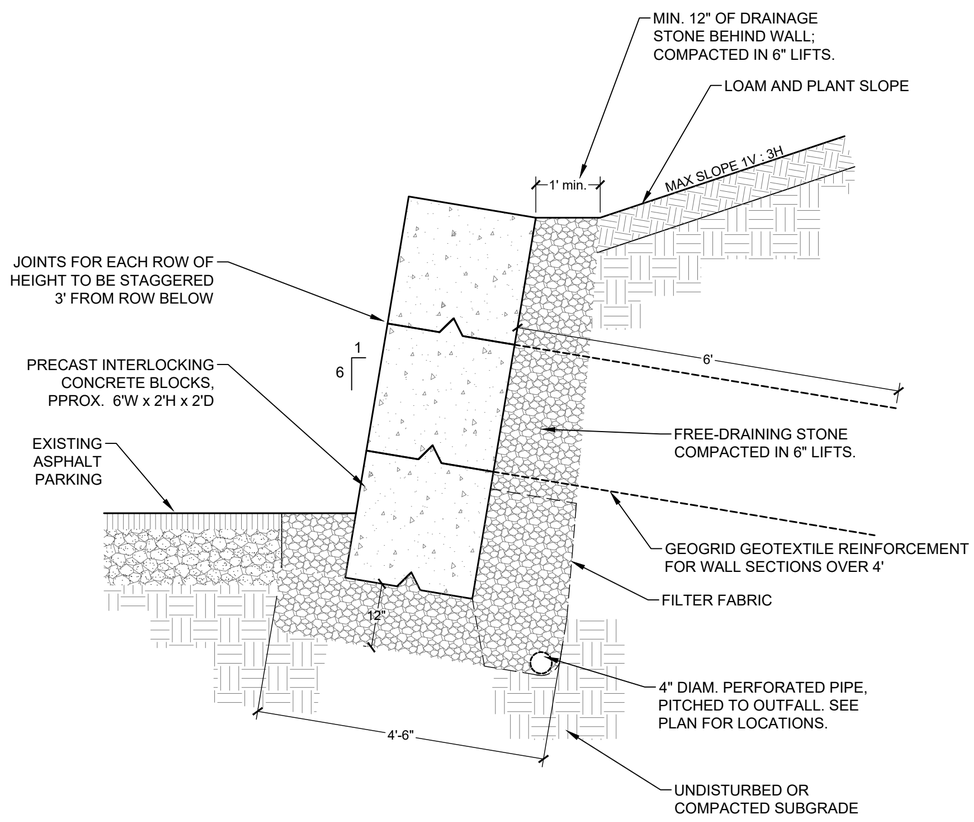
Notes:
1. This design meets or exceeds the minimum factors of safety required by Risi Stone Systems based on the design parameters listed above. The analysis was performed as outlined in the National Concrete Masonry Association Design Manual for Segmental Retaining Walls, Third Edition. This is a typical, non site-specific Design.
2. No analysis of global stability, total or differential settlement, or seismic effects has been performed.
3. This design is only provided to illustrate the general arrangement of the SRW structure for preliminary costing and feasibility purposes only. This drawing is not for construction. A qualified Engineer must be retained to provide the Final Design prior to construction.
4. Structures such as handrails, guardrails, fences, terraces, and site conditions such as water applications, drainage and soil conditions, additional live and dead loads, etc., have significant effects on the wall design and have not been taken into account in this typical section. When accounted for in the Final Design, other conditions and elements may result in additional design measures (geogrid, drainage, etc) and cost.
5. For geogrid reinforced structures, a minimum Long Term Allowable Design Strength of 14 kN/m was assumed. Contact your manufacturer or Risi Stone Systems for a list of approved geogrid reinforcements.

RisiStone retaining wall systems
www.risistone.com
1-800-626-9255

DuraHold®
Retaining Wall Geogrid Section
1830mm (6.00ft)
Site: 3H:1V Slope - Clays
Infill: Granular
DH1RBSAI183

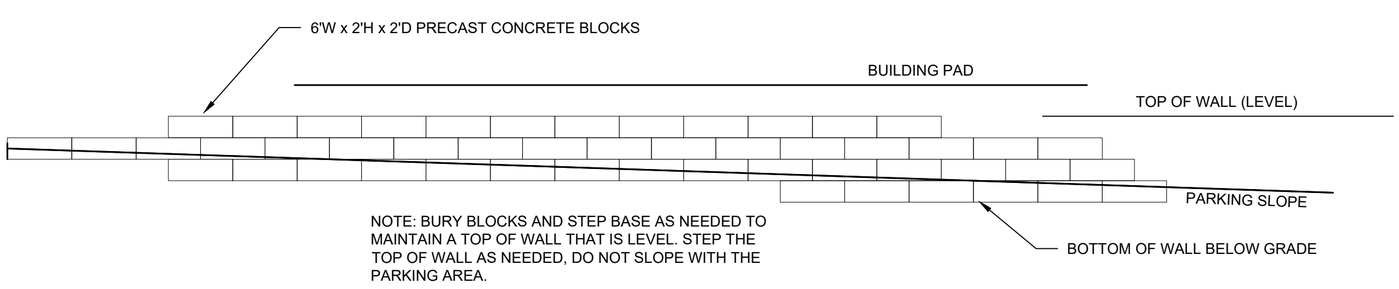
1 ELEVATION: WALL COURSES

not to scale



1a TYP. LARGE PRECAST BLOCK WALL

not to scale



2 ELEVATION: WALL COURSES

not to scale

Walter Cudnohufsky Associates

Landscape Architects/ Planners

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Ashfield, MA 01330

PHONE: 413-628-4600
FAX: 413-628-0117
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No.	Description	Date

Date: 10/15/2024

Scale: Not to Scale

Heath Salt Shed
Heath, MA

Notes & Typical Details

L2