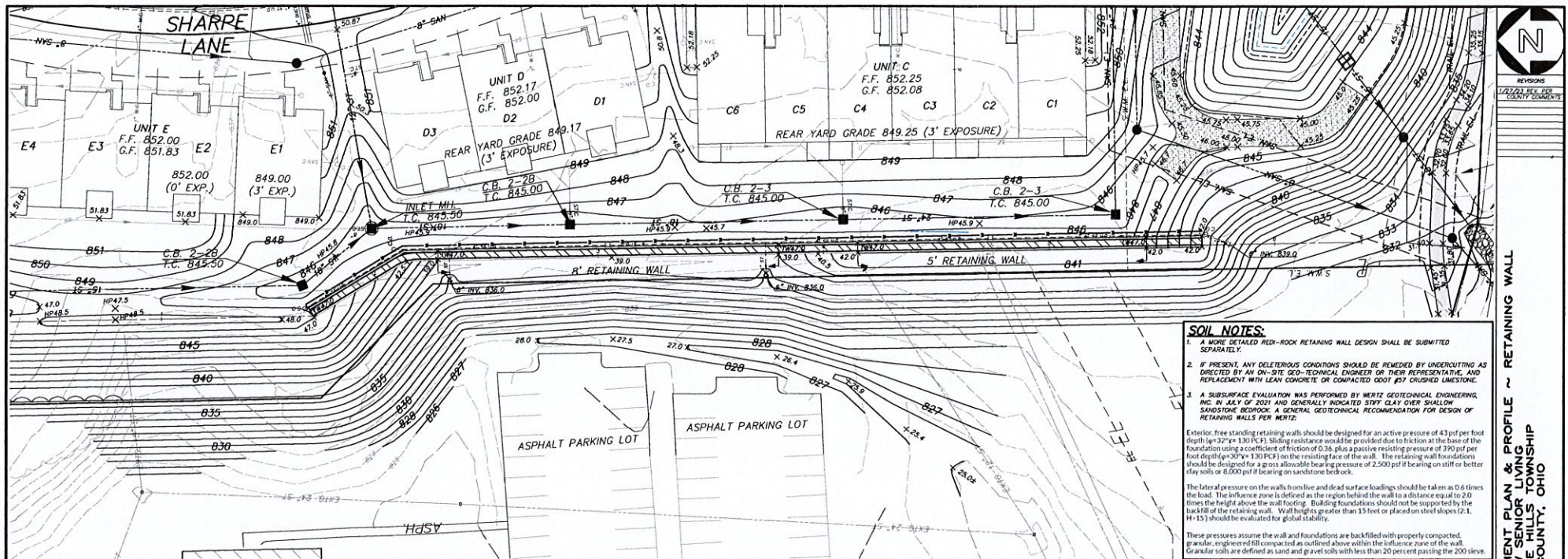




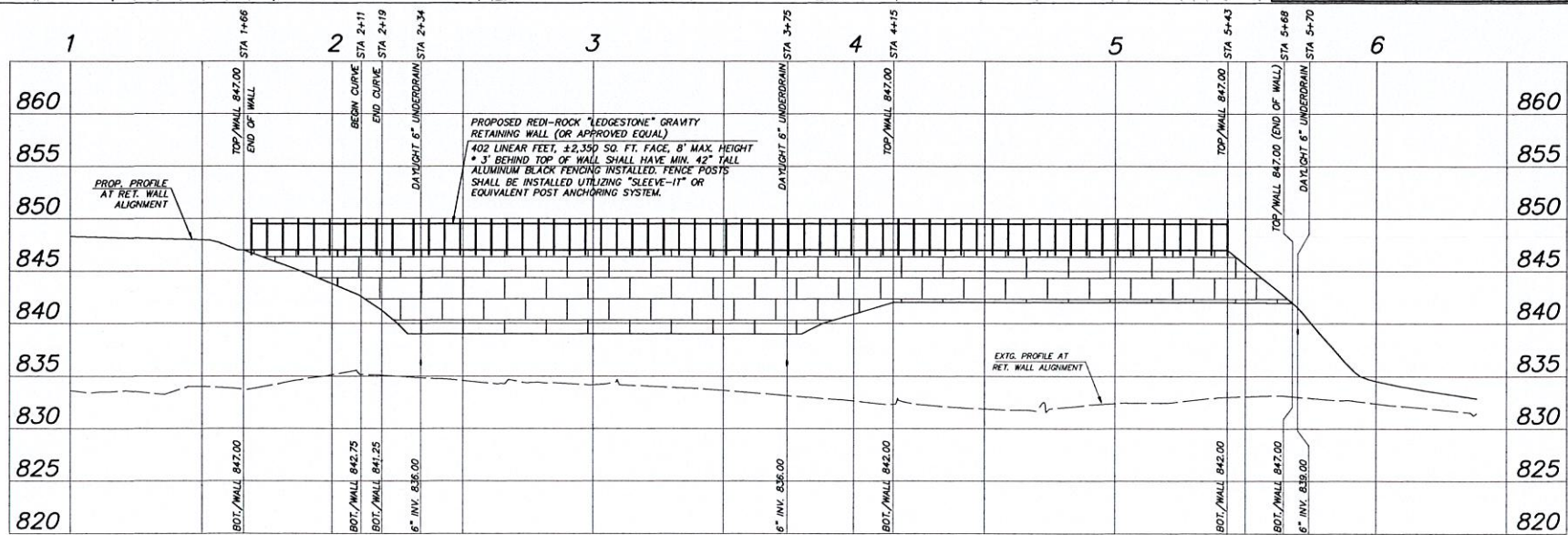
SOIL NOTES:

1. A MORE DETAILED RED-ROCK RETAINING WALL DESIGN SHALL BE SUBMITTED SEPARATELY.
2. IF PRESENT, ANY DESTRUCTIVE CONDITIONS SHOULD BE REMEDIED BY UNDERCUTTING AS DIRECTED BY AN ON-SITE GEO-TECHNICAL ENGINEER OR THEIR REPRESENTATIVE, AND REPLACEMENT WITH LEAN CONCRETE OR COMPACTED 60% CRUSHED LIMESTONE.
3. A SUBSURFACE EVALUATION WAS PERFORMED BY WERTZ GEOTECHNICAL ENGINEERING, INC. IN JULY OF 2021 AND GENERALLY INDICATED STIFF CLAY OVER SHALLOW SANDSTONE BEDROCK. A GENERAL GEOTECHNICAL RECOMMENDATION FOR DESIGN OF RETAINING WALLS PER WERTZ:

Exterior, free standing retaining walls should be designed for an active pressure of 43 pcf per foot depth (e.g. 32' x 1.33 K/ft). Sliding resistance would be provided due to friction at the base of the foundation using a coefficient of friction of 0.36, plus a passive resisting pressure of 390 pcf per foot depth (e.g. 30' x 130 K/ft) on the existing face of the wall. The retaining wall foundations should be designed for a gross allowable bearing pressure of 2,500 pcf bearing on stiff or better clay soils or 8,000 pcf if bearing on sandstone bedrock.

The lateral pressure on the walls from live and dead surface loadings should be taken as 0.6 times the load. The influence zone is defined as the region behind the wall to a distance equal to 2.0 times the height above the wall footing. Building foundations should not be supported by the backfill of the retaining wall. Wall heights greater than 15 feet or placed on steep slopes (2:1 H:1 V) should be evaluated for global stability.

These pressures assume the wall and foundations are backfilled with properly compacted, granular, engineered fill compacted as outlined above within the influence zone of the wall. Granular soils are defined as sand and gravel soils with less than 20 percent passing the 200 sieve.



PROP. RETAINING WALL PROFILE

IMPROVEMENT PLAN & PROFILE ~ RETAINING WALL
PARKVIEW SENIOR LIVING
SUMMIT COUNTY, OHIO

DONALD G. BOWING & ASSOCIATES, INC.
CIVIL ENGINEERING & SURVEYING
7895 MAPLE AVE. SUITE 100
COLUMBUS, OHIO 43235
(614) 461-1111



GRAPHIC SCALE
0' 10' 20'

HORIZONTAL SCALE
1" = 20'

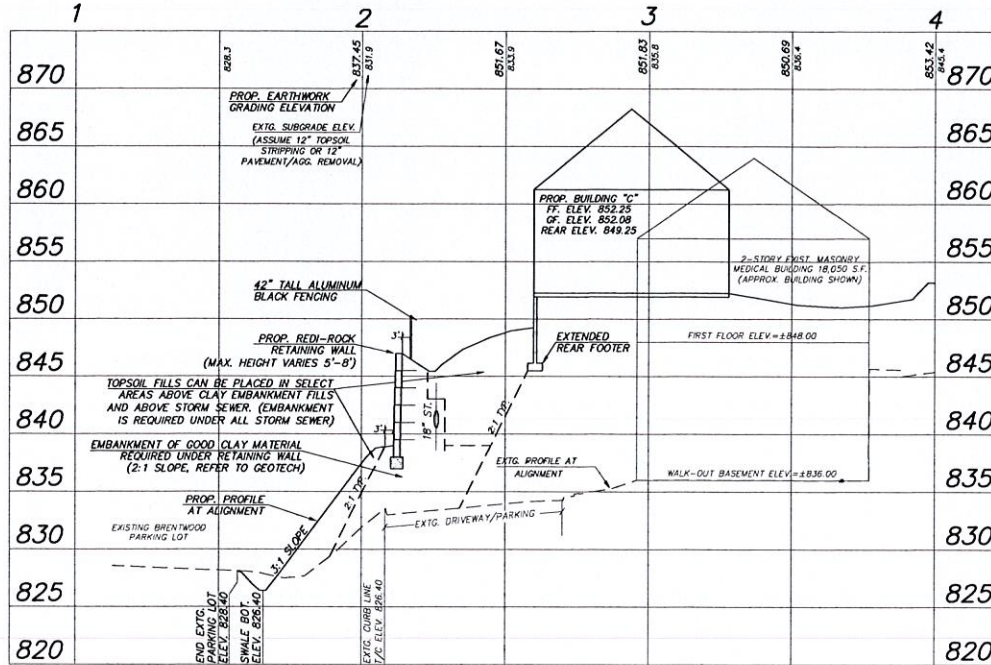
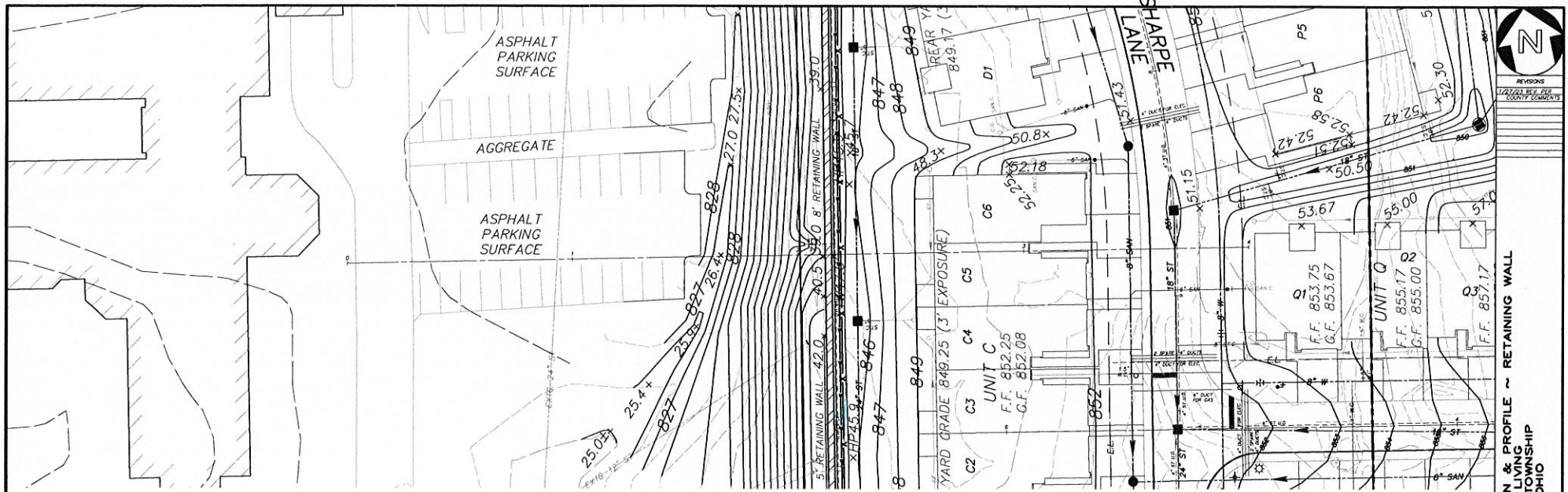
VERTICAL SCALE
1" = 5'

DATE: OCT., 2022

PROJECT NO.: 4723E

41

53



PROPOSED GRADING PROFILE



REVISIONS
DATE: 10/12/2022
BY: K.C. T.C.

IMPROVEMENT PLAN & PROFILE ~ RETAINING WALL
SAGAMORE HILLS TOWNSHIP
SUMMIT COUNTY, OHIO

DONALD C. BOWING & ASSOCIATES, INC.
CIVIL ENGINEERING & SURVEYING
10000 N. STATE ST., SUITE 100
COLUMBUS, OHIO 43240
PHONE: (614) 442-1138 FAX: (614) 442-1132



GRAPHIC SCALE
0' 10' 20'

HORIZ. SCALE
1" = 20'

VERT. SCALE
1" = 5'

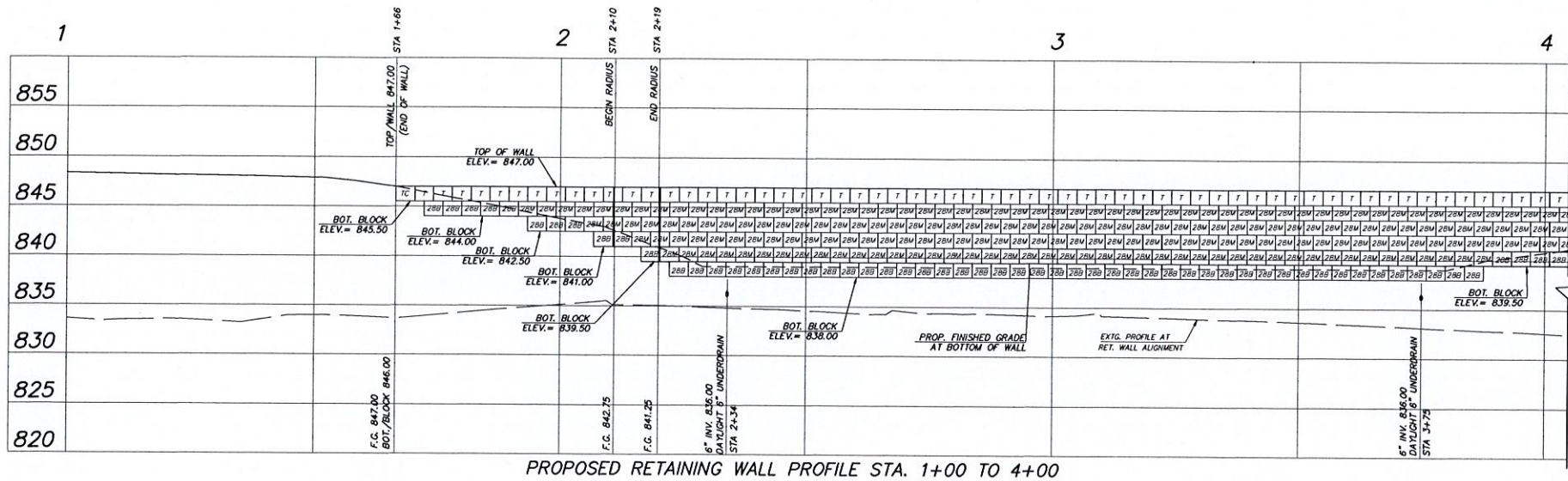
DATE: OCT., 2022

BY: K.C. T.C.

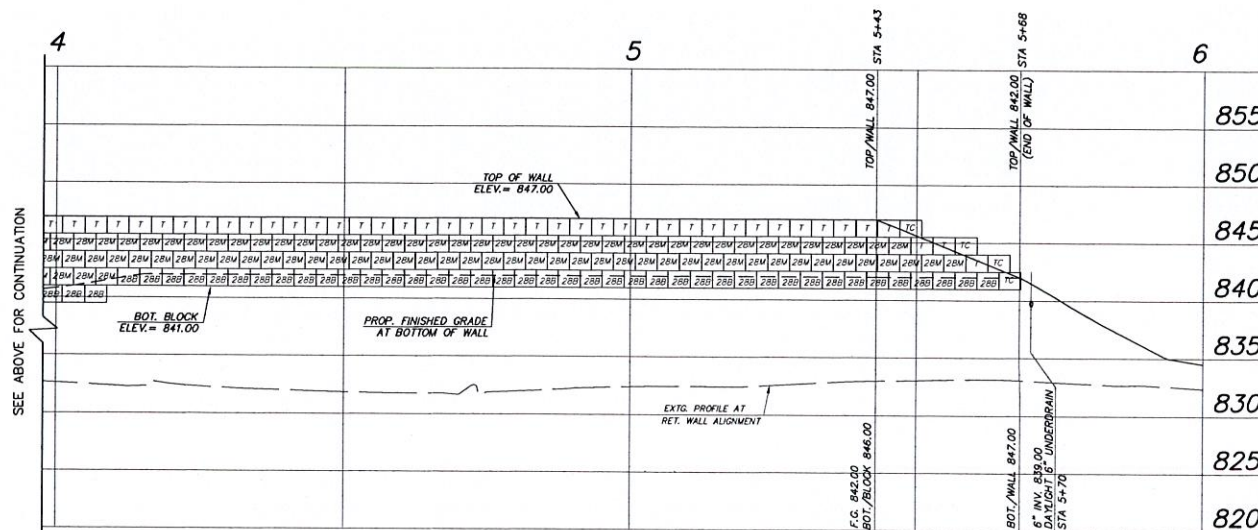
4723E

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PROPOSED RETAINING WALL PROFILE STA. 1+00 TO 4+00



PROPOSED RETAINING WALL PROFILE STA. 4+00 TO 6+00

REDI-ROCK BLOCK KEY	
Y	TOP BLOCK
28M	28" DEEP MIDDLE
28B	28" DEEP BOTTOM
TC	TOP CORNER
5	5" DEEP
1AT	TYPE 1AT CONNECTOR RODS
CONTRACTOR SHALL CONFIRM ALL QUANTITIES	

REVISIONS
1/27/2023 PLAN REV.

SEE BELOW FOR CONTINUATION

IMPROVEMENT PLAN & PROFILE ~ REDI-ROCK WALL DETAILS
PARKWAY SERVICE TOWNSHIP
SAGAMORE HILLS TOWNSHIP
SUMMIT COUNTY, OHIO

DOUGLAS & ASSOCIATES, INC.
CIVIL ENGINEERING & SURVEYING
14000 W. 14TH AVE., SUITE 100
P.O. BOX 14000
CINCINNATI, OH 45244-1400
PHONE: (513) 842-1100 FAX: (513) 842-1132

GRAPHIC SCALE
0 10 20'
HORIZONTAL SCALE
1" = 20'
VERTICAL SCALE
1" = 5'

DATE
OCT., 2022

PROJECT NO.
4723E

41B
53



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project design, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

REDI-ROCK

(Anchored Tail)

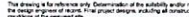


INSTALLATION STEP 1

INSTALLATION STEP 1
Place geogrid on block over the groove. Leave about 3-6" extending over the block past the groove to provide for the tail.



INSTALLATION STEP 2
Place the fiberglass rod on top of geogrid.



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DATE BY	JRU	TITLE	 REDI-ROCK EMERY ST. BOLDT, COLORADO, 80428 (303) 534-0610 or 303-444-8999 / info@redirock.com
DATE BY	JRU	Type 1-AT Connection	
	06-22-2015		
	1 of 1	PLR	1 Type 1-AT Connection 362215.dwg

Type 1 AT Correction 262215.dcm



The Ledgestone texture is available on any Redi-Rock® block. That means you can create a retaining wall, top it with a freestanding wall, and accent it with columns. Beautiful.

LEDGESTONE

Strong. Rugged. Handsome. What, you don't have those thoughts about retaining walls?

Well, we do. At Redi-Rock, we like retaining walls to look great while doing the hard job of holding back the earth. We painstakingly sought out world-class stone to create molds that give these blocks their classic stone aesthetics.

Redi-Rock LedgeStone blocks give projects a random, stacked stone look. Because they're made using architectural-grade precast concrete, the level of detail in the texture is outstanding.

- Trapezoidal shape allows convex

- 5.5 inch (140 millimeter) deep texture
- Colors can be formulated based upon local regions
- Wet-cast concrete gives a greater level of detail and durability

Regional colors and coordinating accessories are available. Contact your local Redi-Rock retailer or visit redi-rock.com to learn more about the Redi-Rock LedgeStone face today!