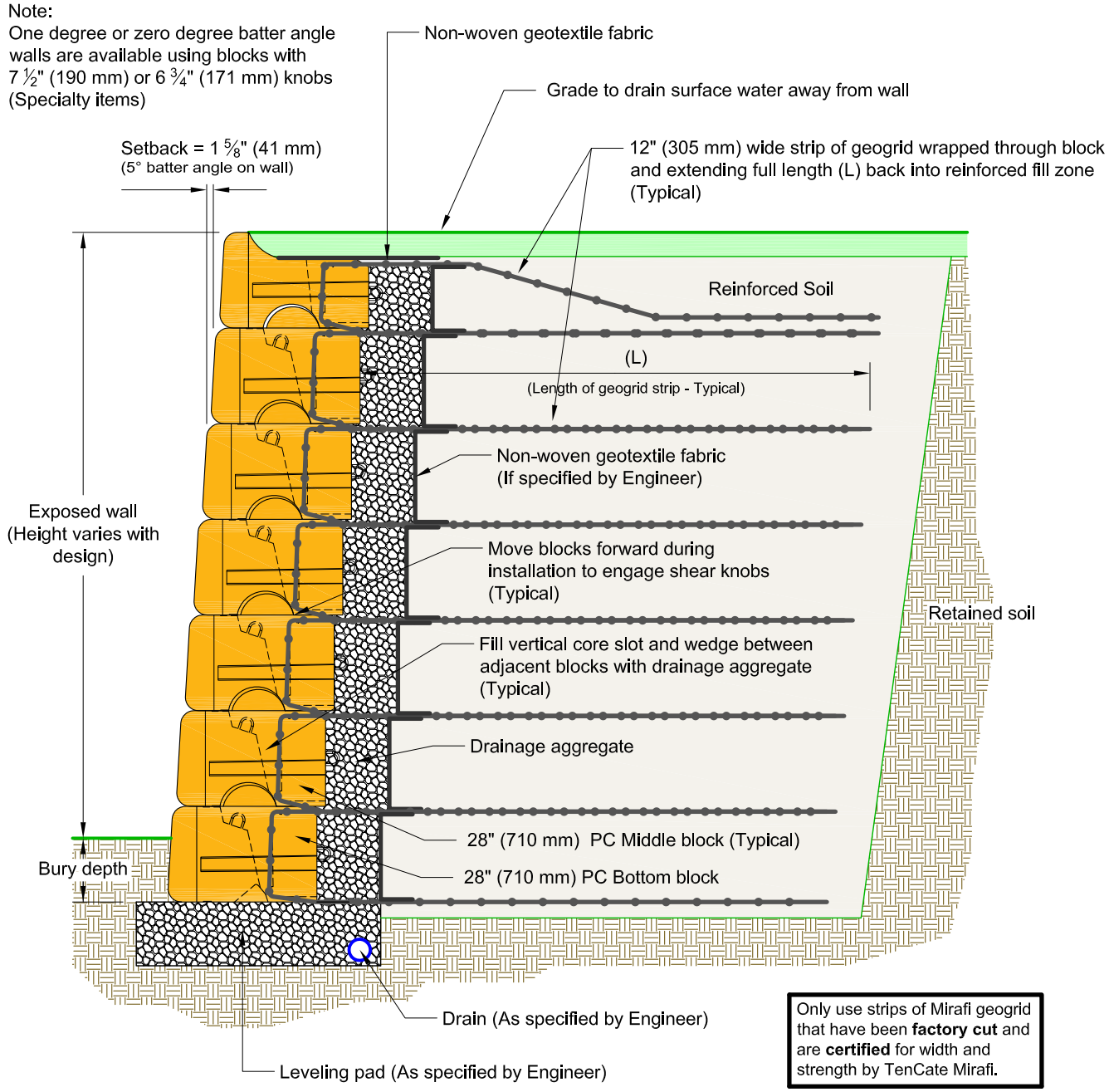
Typical Reinforced Wall Section

Note:
One degree or zero degree batter angle walls are available using blocks with 7 ½" (190 mm) or 6 ¾" (171 mm) knobs (Specialty items)



Only use strips of Mirafi geogrid that have been **factory cut** and are **certified** for width and strength by TenCate Mirafi.

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 designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	JRJ
APPROVED BY:	JRJ
DATE:	17MAR2016
SHEET:	1 of 1

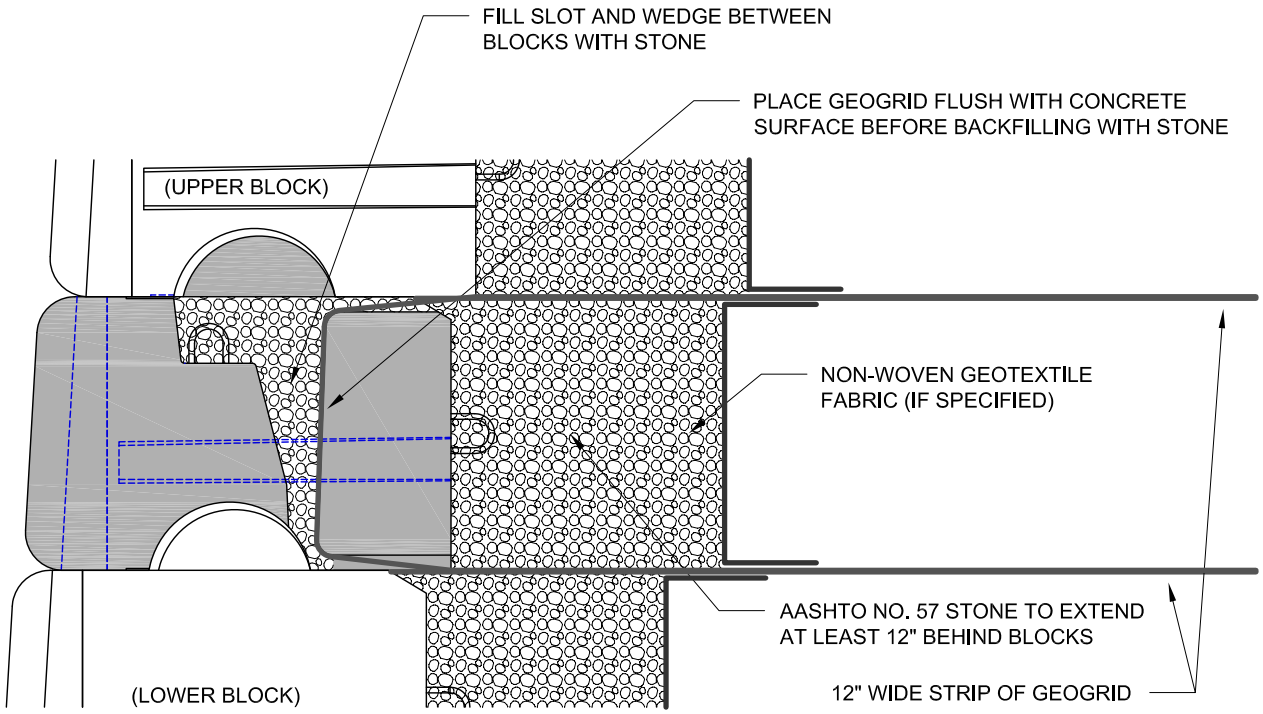
TITLE: Typical Reinforced Wall Section

FILE: 2 Typical Gravity Wall Section 031716.dwg

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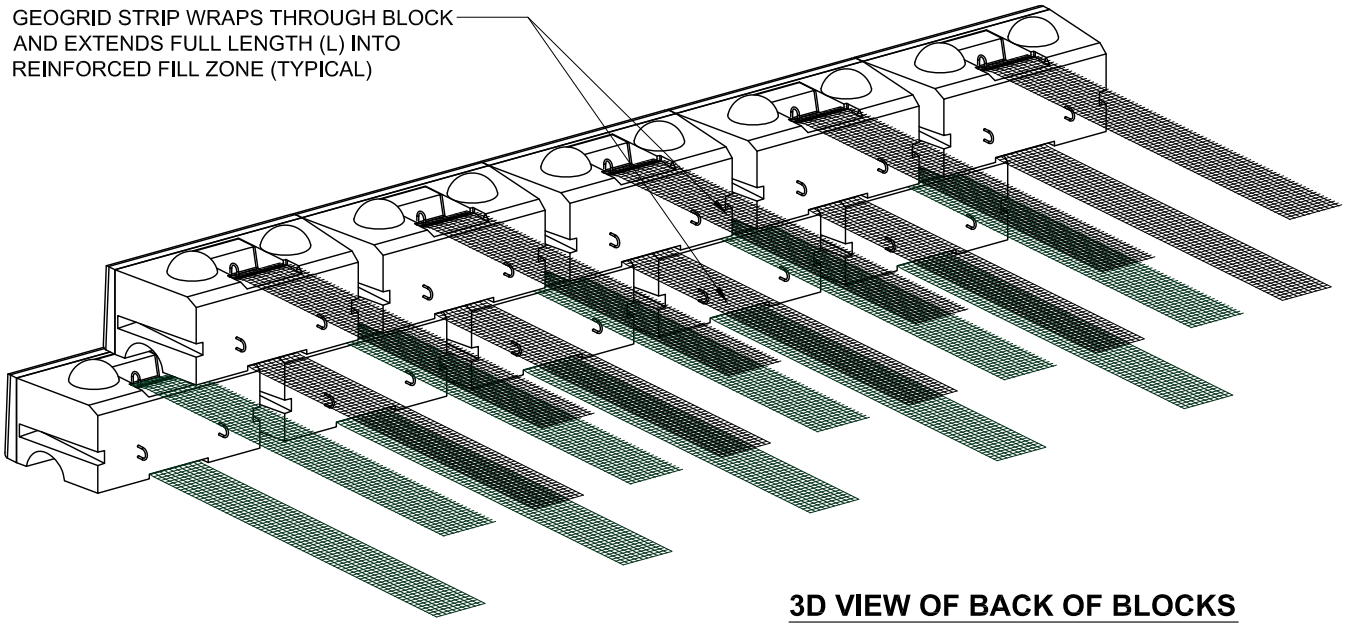
POSITIVE CONNECTION (PC) DETAILS

NO SCALE



SECTION VIEW THROUGH BLOCKS

NO SCALE

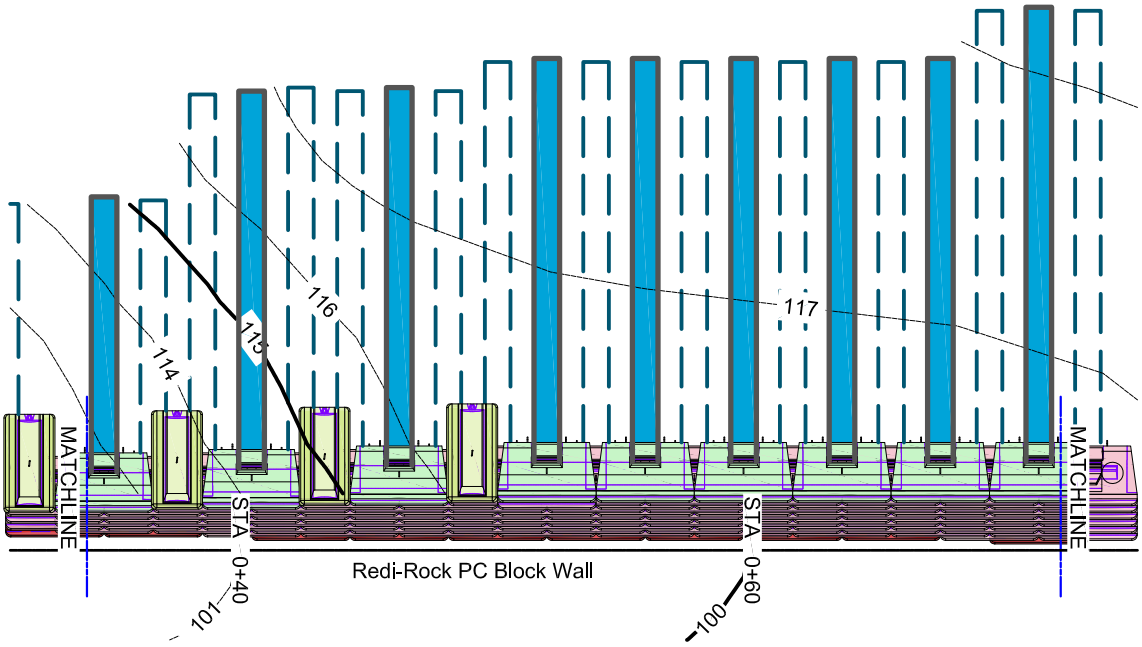


3D VIEW OF BACK OF BLOCKS

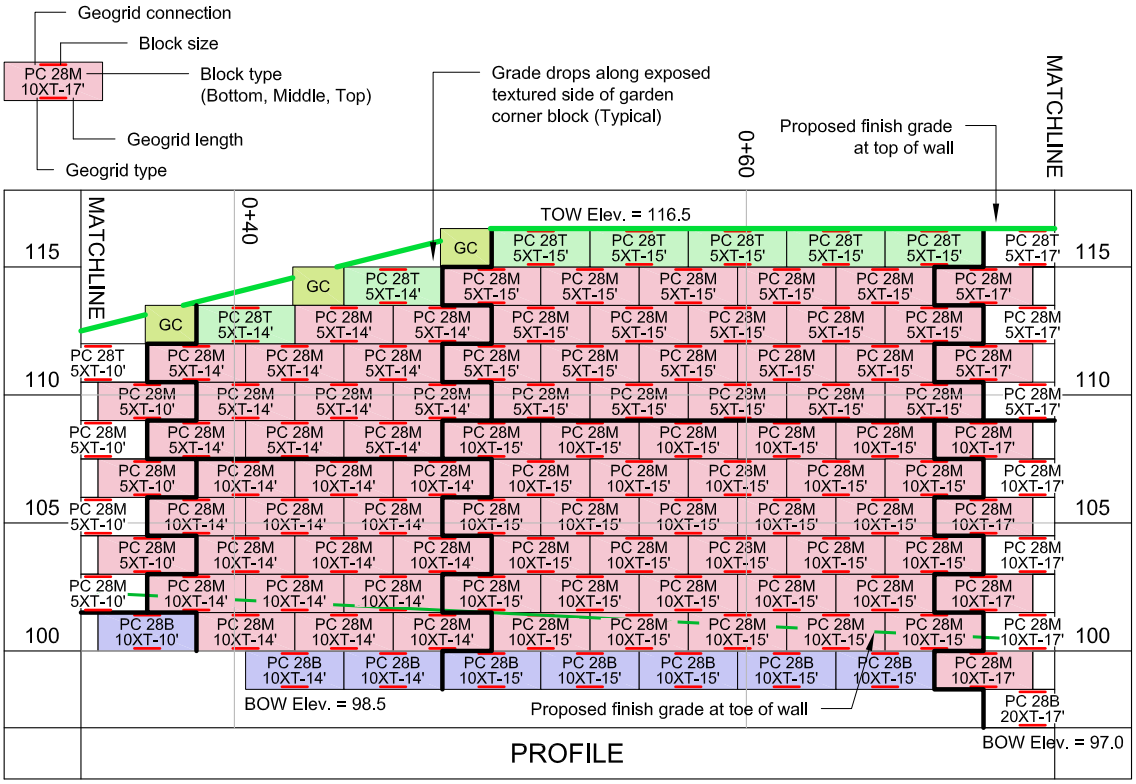
NO SCALE

DRAWN BY:	JRJ	TITLE: Positive Connection Detail	REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE: 1 Positive Connection Detail 062215.dwg	

Sample Plan and Profile



LEGEND:



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DRAWN BY:	JRJ	TITLE:	Sample Plan and Profile
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE:	2 Sample Plan and Profile 062215.dwg

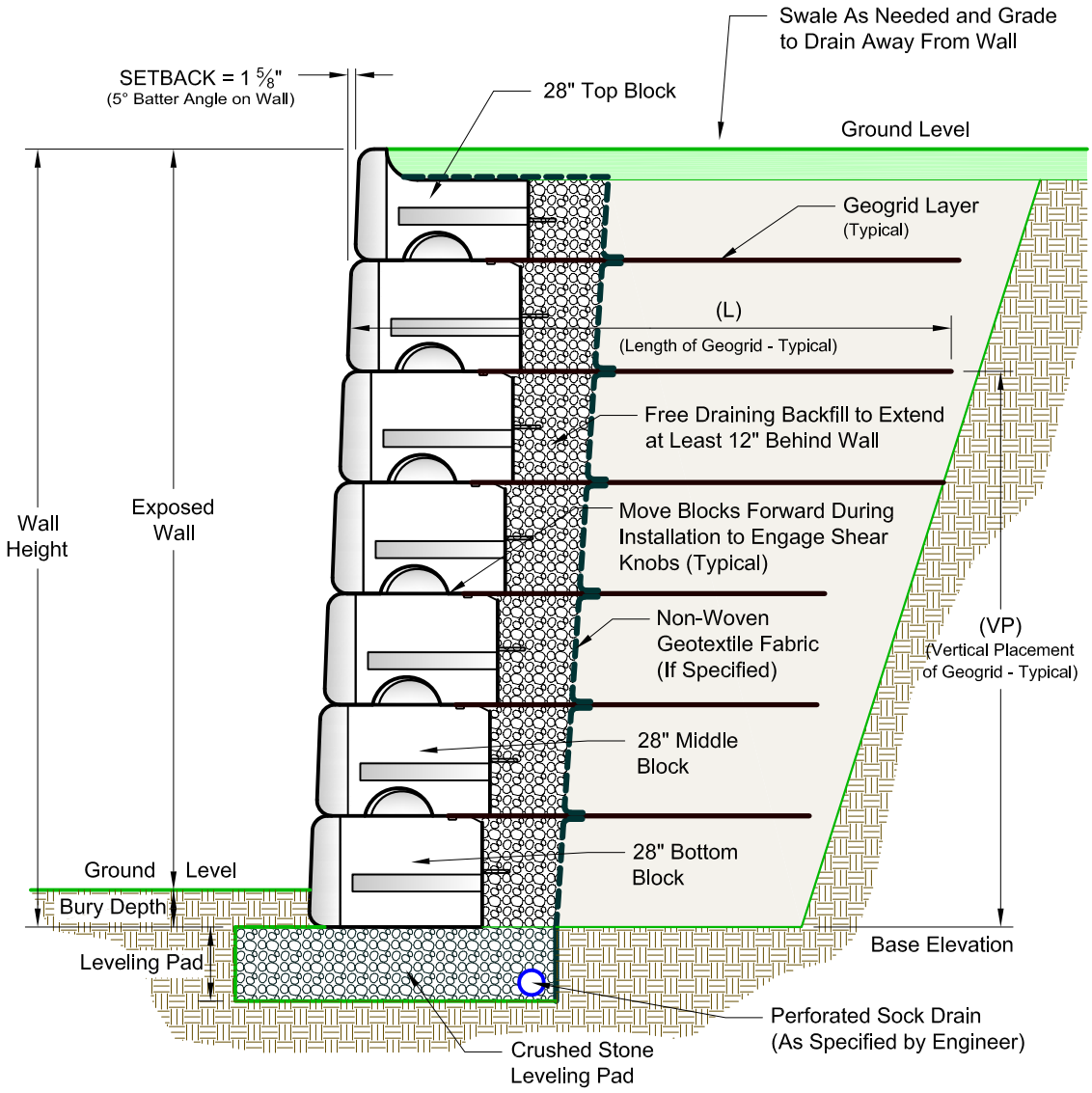
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MSE Wall Section with Type 1-AT Connection

No Scale

(VP) = Vertical placement of geogrid layers. Measurements are from the base elevation.

(L) = Length of geogrid. Measurements are from the face of the block.



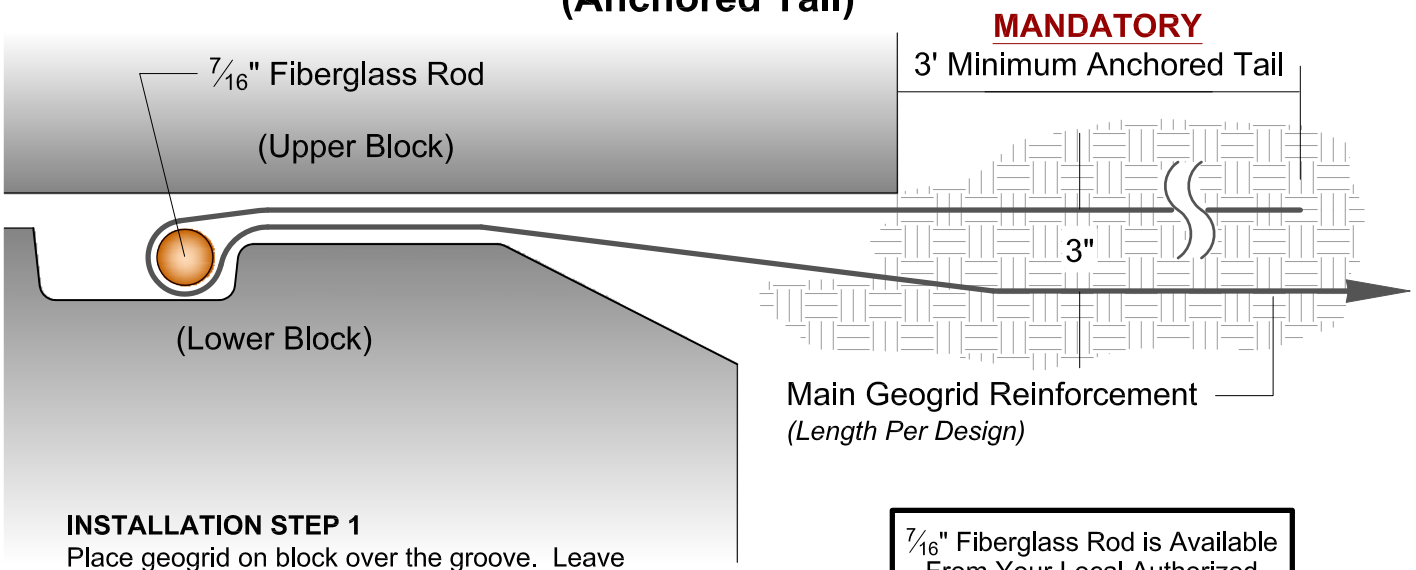
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DRAWN BY:	JRJ	TITLE:	MSE Wall Section with Type 1-AT Connection
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE:	MSE Wall Section with Type 1-AT Connection 070615.dwg

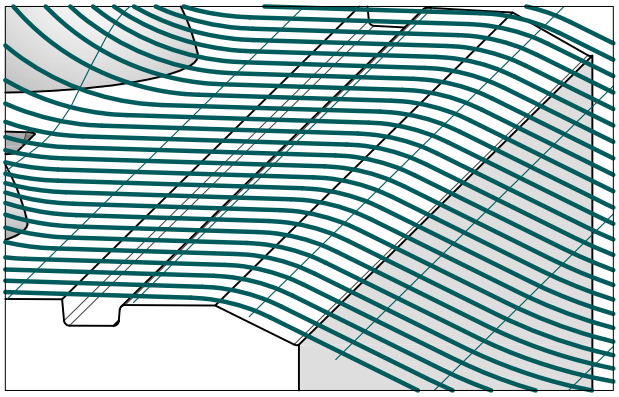
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Type 1AT Connection

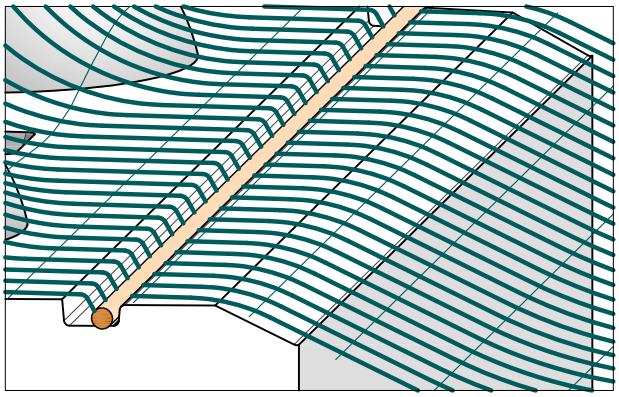
(Anchored Tail)



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.

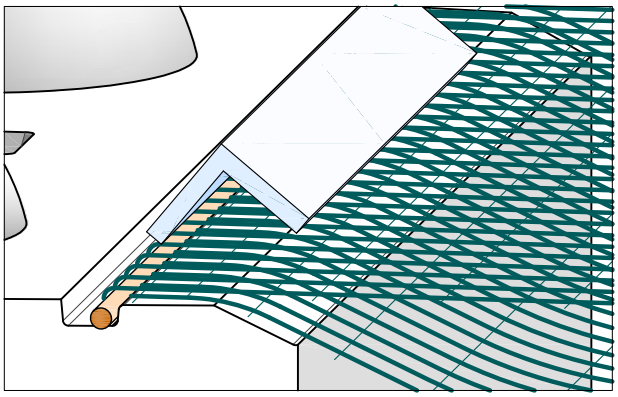


7/16" Fiberglass Rod is Available From Your Local Authorized Redi-Rock Dealer

See www.redi-rock.com for Geogrid Connection and Interface Shear Test Reports.

TIP FOR STEP 3
A steel angle can be used to hold the geogrid and rod in position.

INSTALLATION STEP 3
Fold the geogrid over the fiberglass rod. Pull to tighten rod snug with the back of the groove. Extend the geogrid tail behind the block to provide a minimum of 3'-0" embedment behind the back of the block.

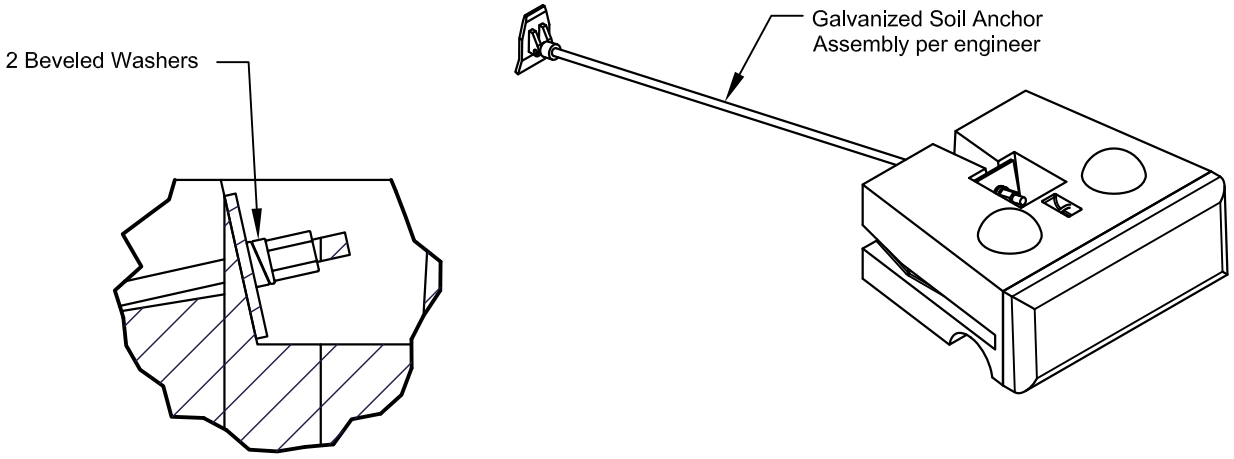


This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer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

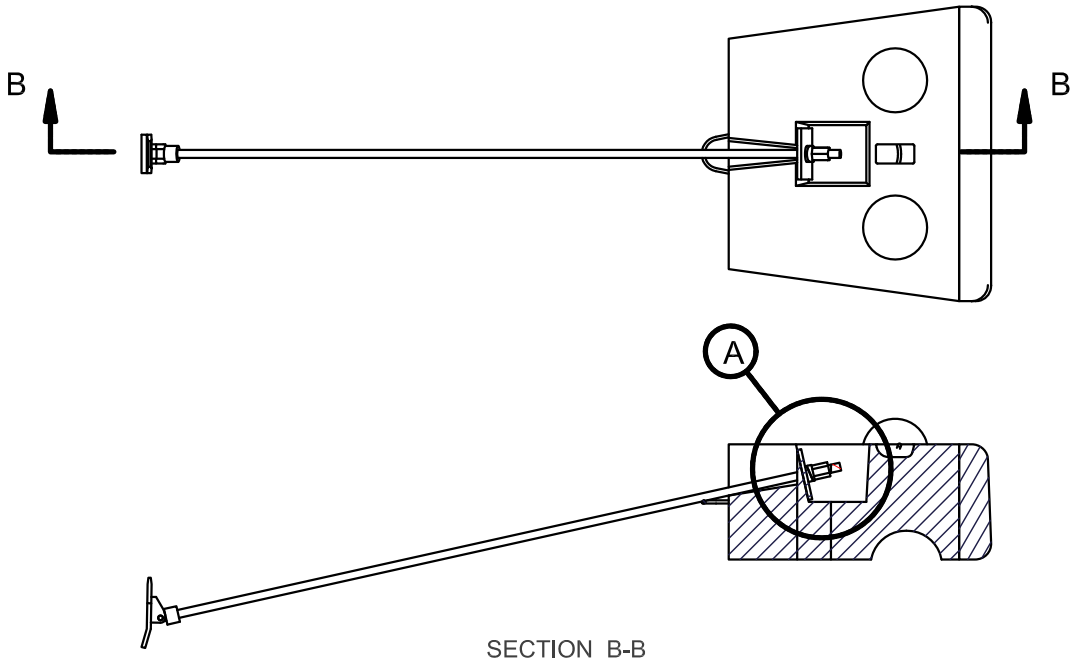
DRAWN BY:	JRJ	TITLE:	Type 1-AT Connection
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE:	1 Type 1-AT Connection 062215.dwg

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Anchor Block Retaining System



DETAIL A

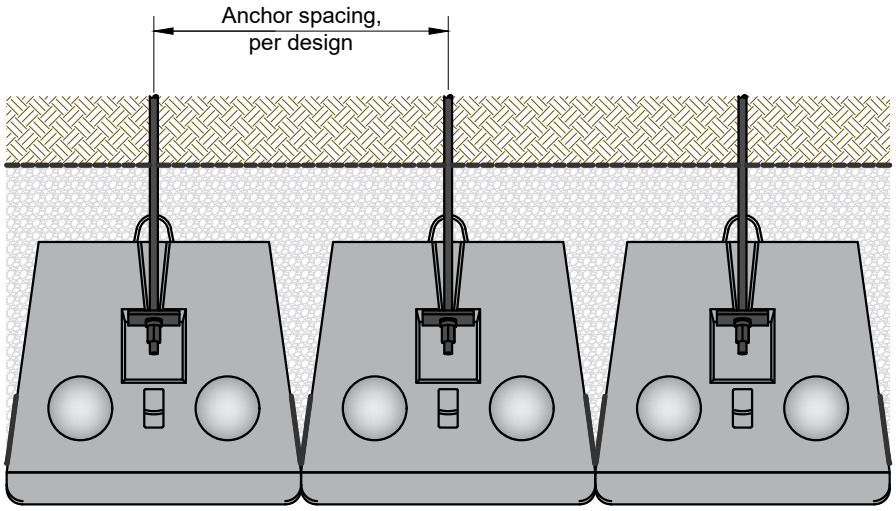


SECTION B-B

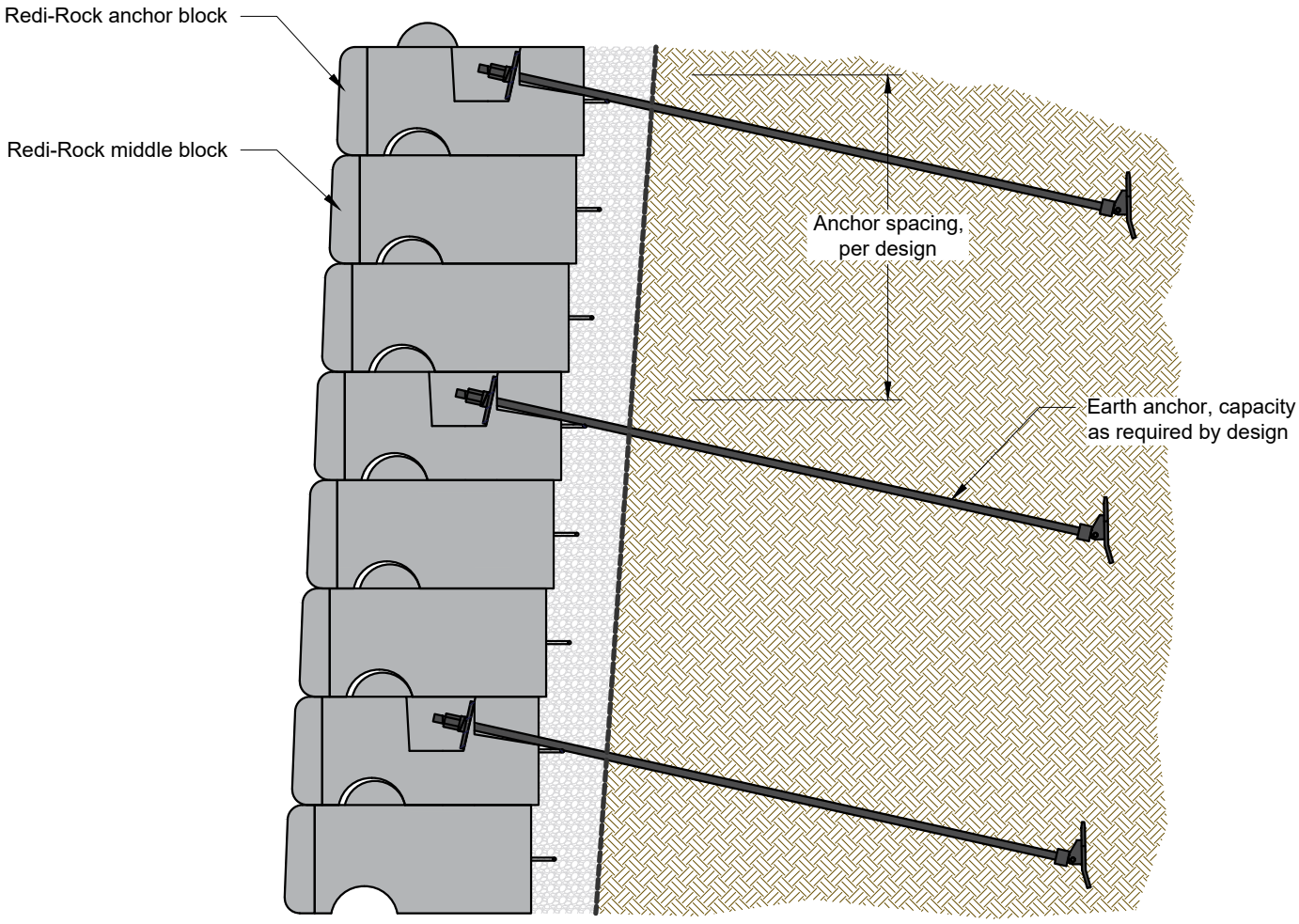
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DRAWN BY:	JRJ	TITLE: Anchor Block Retaining System	REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE: 1 Anchor Block Retaining System 062215.dwg	

Typical Section



PLAN VIEW



CROSS-SECTION

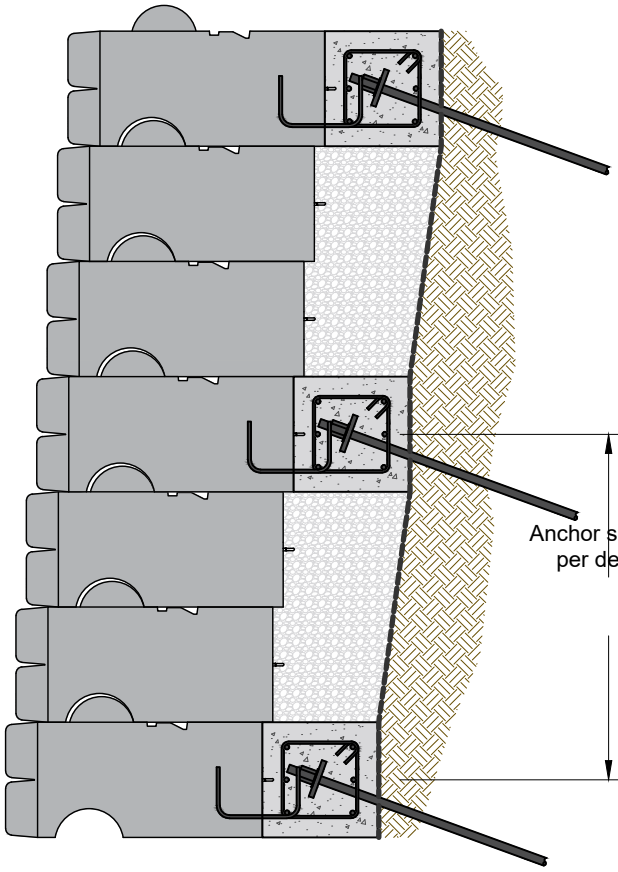
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DRAWN BY:	NWL
APPROVED BY:	NWL
DATE:	27JUL2018
SHEET:	1 of 1

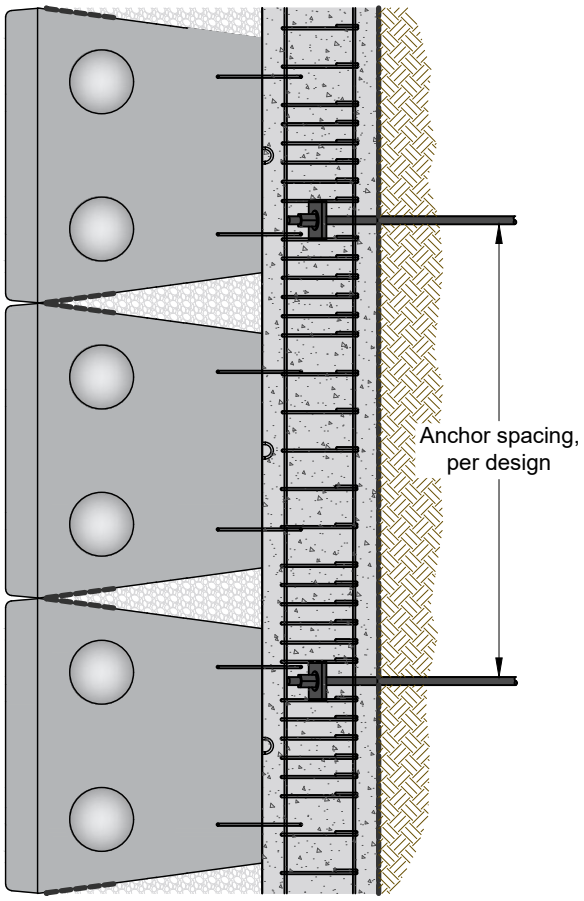
TITLE: Anchor Block Retaining System

FILE: 2 Anchor Block Retaining System 072718.dwg

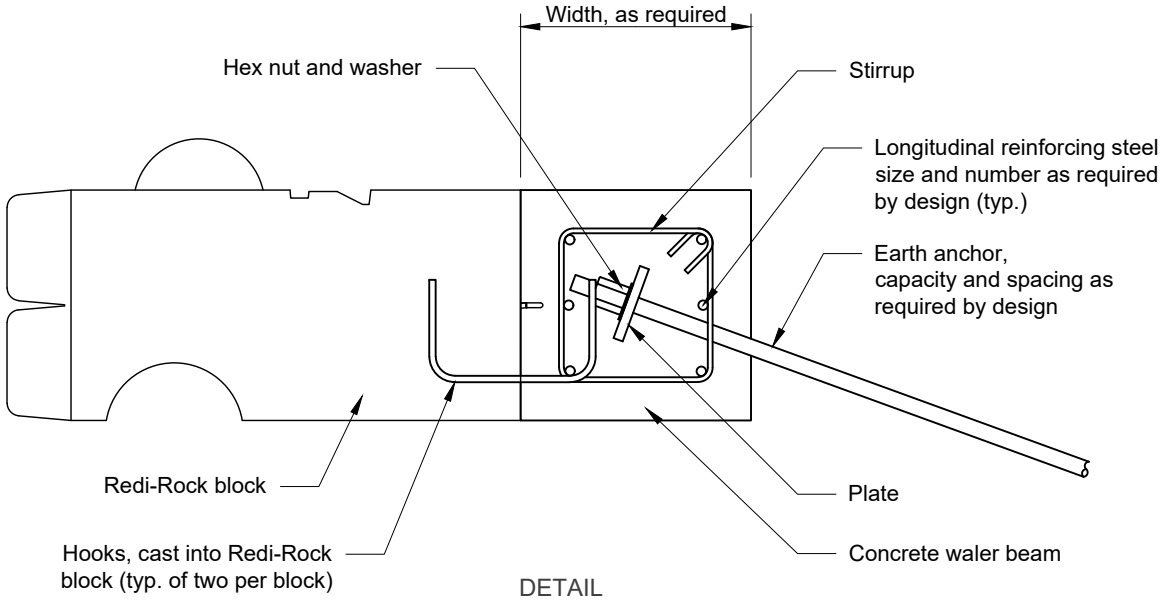
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CROSS-SECTION



PLAN VIEW



DETAIL

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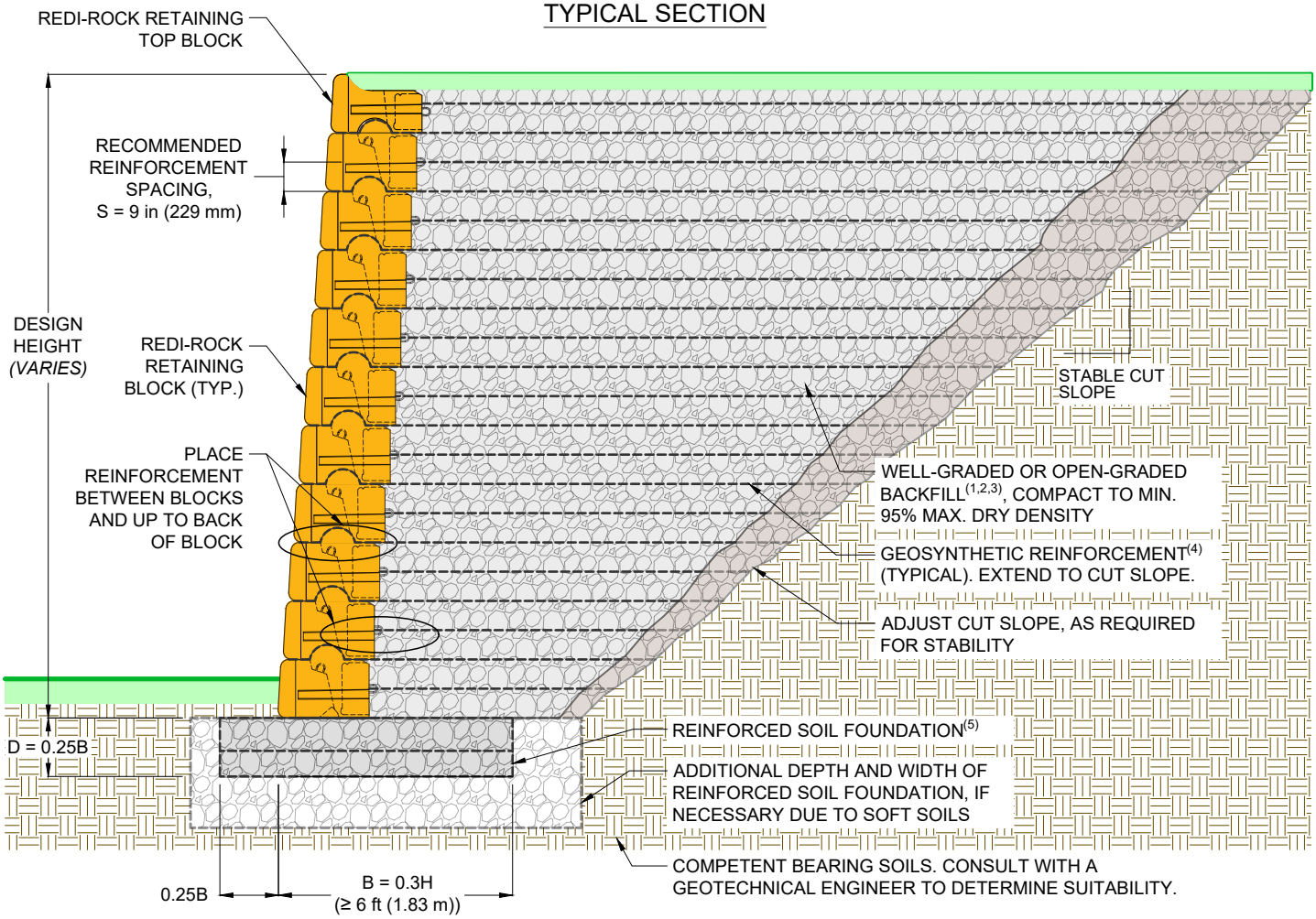
DRAWN BY:	NWL
APPROVED BY:	NWL
DATE:	23JUL2018
SHEET:	1 of 1

TITLE: Anchor and Waler Beam Detail

FILE: Anchor and waler beam detail 072318.dwg

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GEOSYNTHETIC REINFORCED SOIL (GRS)
TYPICAL SECTION



TYPICAL SECTION

(NO SCALE)

GEOSYNTHETIC REINFORCED SOIL (GRS) IS A RETAINING WALL METHODOLOGY THAT UTILIZES CLOSELY-SPACED REINFORCEMENT IN HIGH-QUALITY BACKFILL TO CREATE INHERENTLY INTERNALLY-STABLE COMPOSITE STRUCTURES. THIS DETAIL DEMONSTRATES THE CONCEPT FOR USE WITH REDI-ROCK BLOCKS, AND IT IS BASED ON THE GUIDANCE PROVIDED BY THE FHWA'S *DESIGN AND CONSTRUCTION GUIDELINES FOR GEOSYNTHETIC REINFORCED SOIL ABUTMENTS AND INTEGRATED BRIDGE SYSTEMS* (FHWA-HRT-17-080, JUNE 2018).

Notes:

1) USE WELL-GRADED BACKFILL CONTAINING 100% CRUSHED, HARD, DURABLE PARTICLES OF NATURAL STONE OR GRAVEL WITH A MAXIMUM AGGREGATE SIZE OF 1/2 in (13 mm) TO 2 in (51 mm) AND LESS THAN 12% PASSING THE No. 200 SIEVE. COEFFICIENT OF UNIFORMITY SHOULD BE BETWEEN 1 AND 3, AND COEFFICIENT OF CURVATURE LESS THAN OR EQUAL TO 6. FRICTION ANGLE SHOULD BE AT LEAST 38°. DENSE-GRADED ROAD BASE MATERIAL OF MANY TRANSPORTATION AGENCIES WILL MEET THESE REQUIREMENTS.
2) OPEN-GRADED BACKFILL SHOULD BE CLEAN, HARD, DURABLE, CRUSHED, ANGULAR PARTICLES OF NATURAL STONE OR GRAVEL WITH A MAXIMUM PARTICLES SIZE OF 2 in (51 mm) AND A MINIMUM PARTICLE SIZE OF 1/2 in (13 mm). NO MORE THAN 5% SHOULD PASS THE No. 50 SIEVE. THE FRICTION ANGLE SHOULD BE AT LEAST 38°. AASHTO No. 89 TO No. 5 AGGREGATES MEET THESE REQUIREMENTS.
3) OPEN-GRADED BACKFILL IS RECOMMENDED WHEN THE WALL IS LOCATED IN A FLOOD ZONE, OR FOR OTHER SITUATIONS IN WHICH WATER IS A CONCERN.
4) GEOSYNTHETIC REINFORCEMENT FOR GRS WALLS HAS TRADITIONALLY BEEN WOVEN POLYPROPYLENE WITH A MINIMUM AVERAGE ROLL VALUE (MARV) STRENGTH OF AT LEAST 4,800 lbs/ft (kN/m). CONFIRM STRENGTH FOLLOWING FHWA-HRT-17-080, CHAPTER 4. SPACING IS DESIGN-SPECIFIC WITH A MAXIMUM ALLOWABLE SPACING OF 12 in (305 mm). PLACE REINFORCEMENT BETWEEN BLOCKS WHERE POSSIBLE.
5) REINFORCED SOIL FOUNDATION CAN CONSIST OF WELL-GRADED OR OPEN-GRADED BACKFILL (DEFINED ABOVE), WRAPPED WITH WOVEN GEOTEXTILE. PLACE GEOSYNTHETIC REINFORCING LAYERS WITHIN FOUNDATION AT VERTICAL INTERVALS OF NO MORE THAN 9 in (229 mm).
6) 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 DESIGNS, INCLUDING ALL CONSTRUCTION DETAILS, INTERNAL AND EXTERNAL STABILITY, AND DRAINAGE, SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER USING THE ACTUAL CONDITIONS OF THE PROPOSED SITE.

DRAWN BY: EGS	TITLE: GEOSYNTHETIC REINFORCED SOIL (GRS) TYPICAL SECTION
APPROVED BY: LBH	
DATE: 09-NOV-2026	
SHEET NO. : 1 of 1	DRAWING FILE: GRS_Wall_Typical_Section_09NOV2026.dwg

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