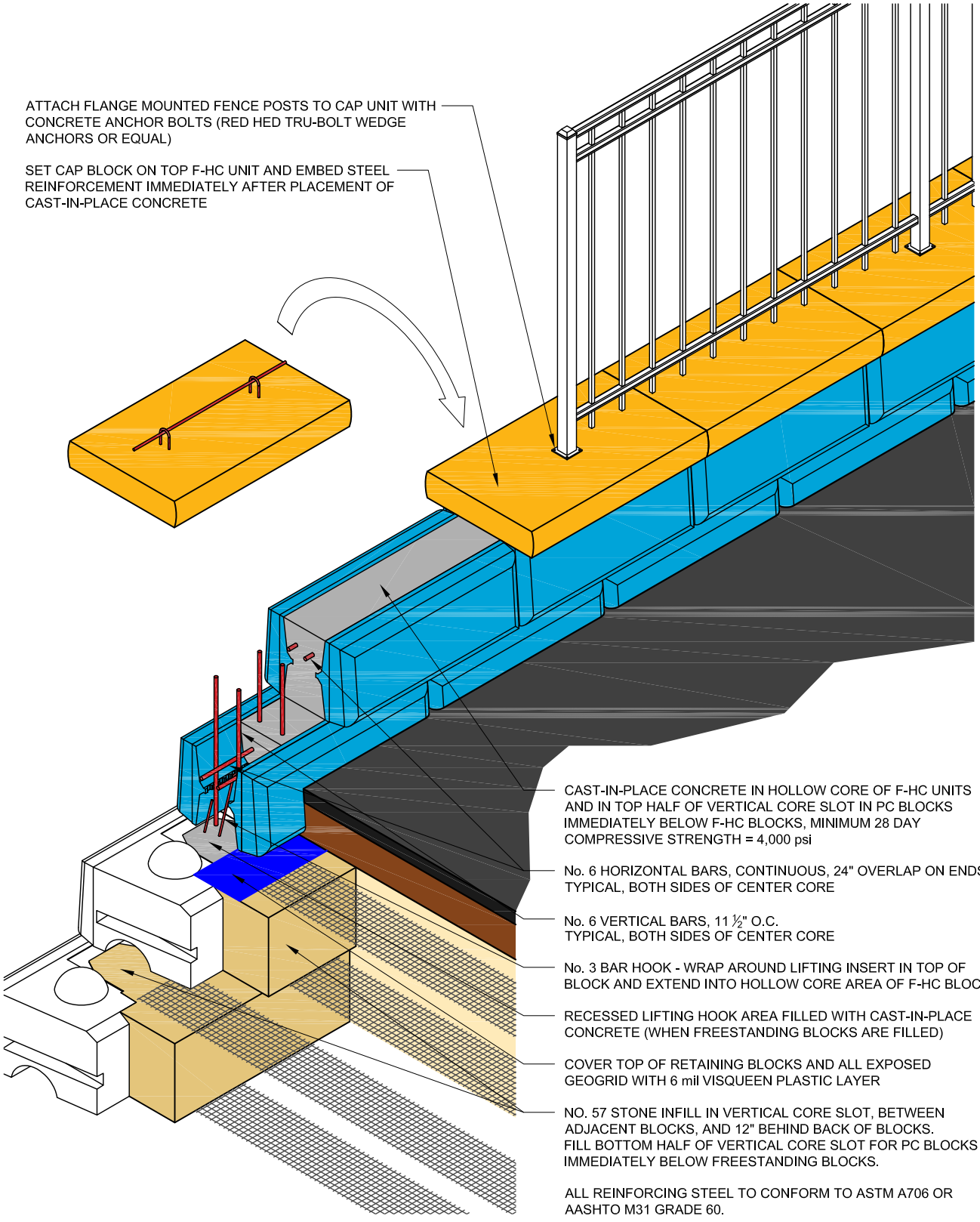

DRAWN BY: J. JOHNSON	TITLE: **F-HC FREESTANDING BLOCK COPING WITH FENCE ATTACHMENT**
APPROVED BY:	
DATE: 01/18/17	
SHEET: 1 OF 2	FILE: F-HC Coping with Fence Attachment R-Anchor Option 011817.dwg

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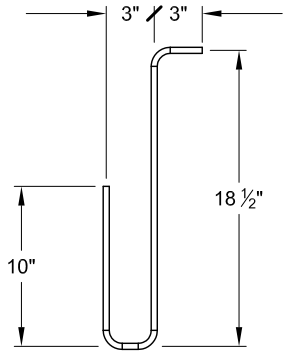
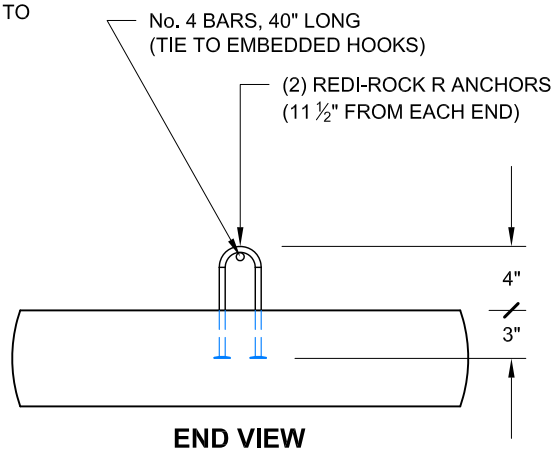
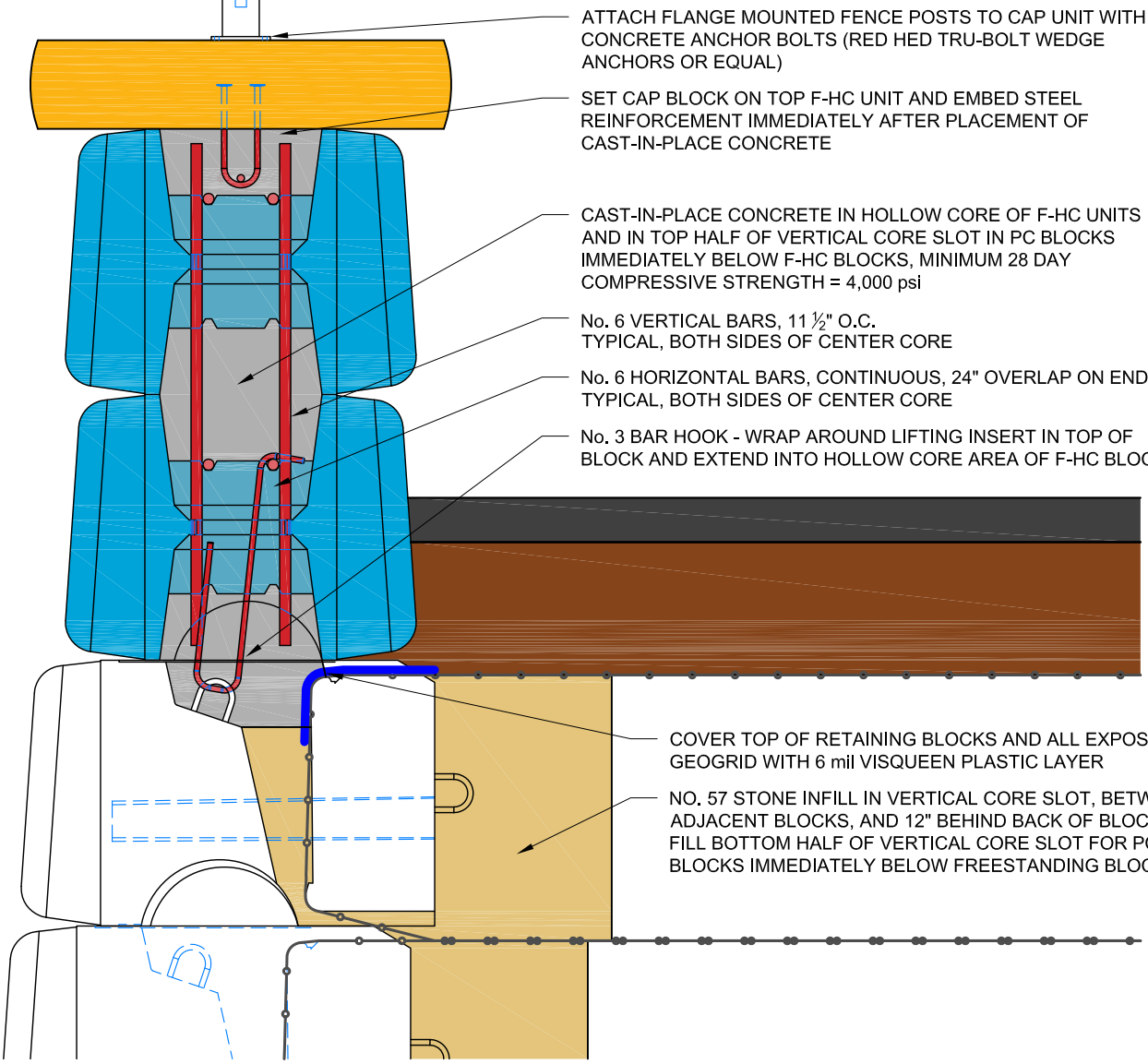
ALL REINFORCING STEEL TO CONFORM TO ASTM A706 OR AASHTO M31 GRADE 60.



BEND DETAIL
NO. 3 REBAR HOOKS



END VIEW
CAP BLOCK CAST WITH R-ANCHORS (SPECIALTY BLOCK)



DRAWN BY: J. JOHNSON	TITLE: **F-HC FREESTANDING BLOCK COPING WITH FENCE ATTACHMENT**
APPROVED BY:	
DATE: 01/18/17	
SHEET: 2 OF 2	FILE: F-HC Coping with Fence Attachment R-Anchor Option 011817.dwg

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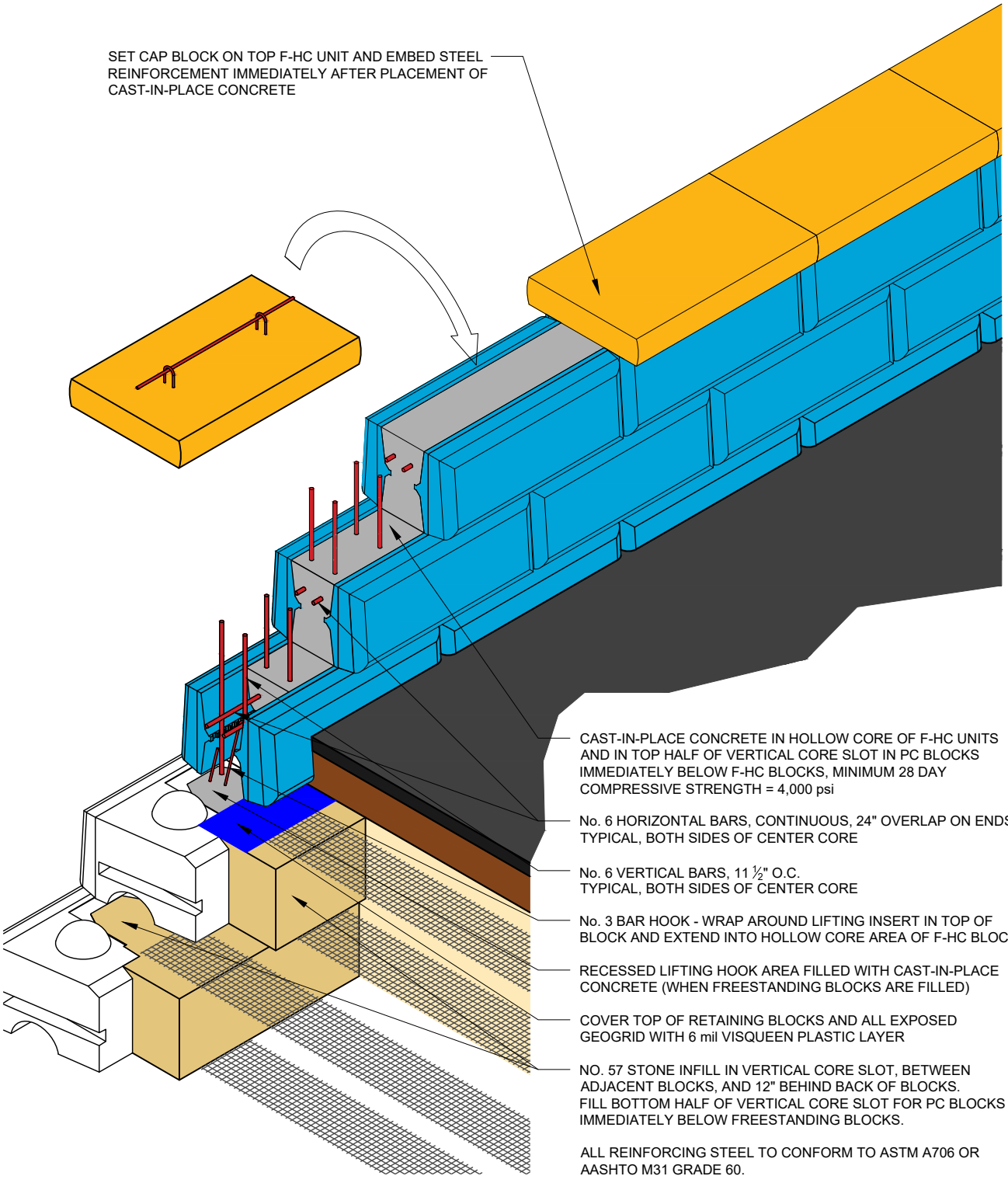

DRAWN BY: N. LINDWALL	TITLE: **F-HC FREESTANDING BLOCK COPING**
APPROVED BY: J. JOHNSON	
DATE: 06/06/2018	
SHEET: 1 OF 1	FILE: F-HC Coping R-Anchor Option 060618.dwg

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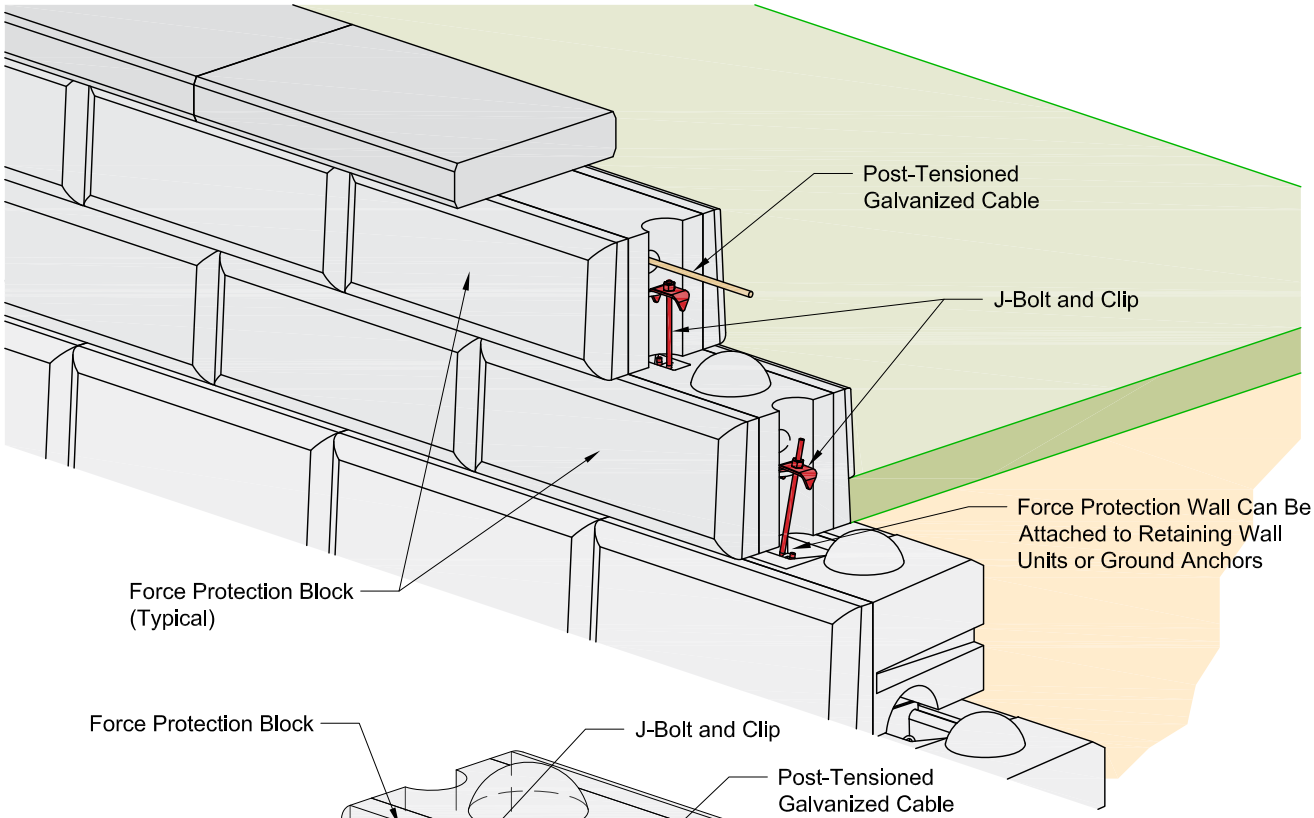
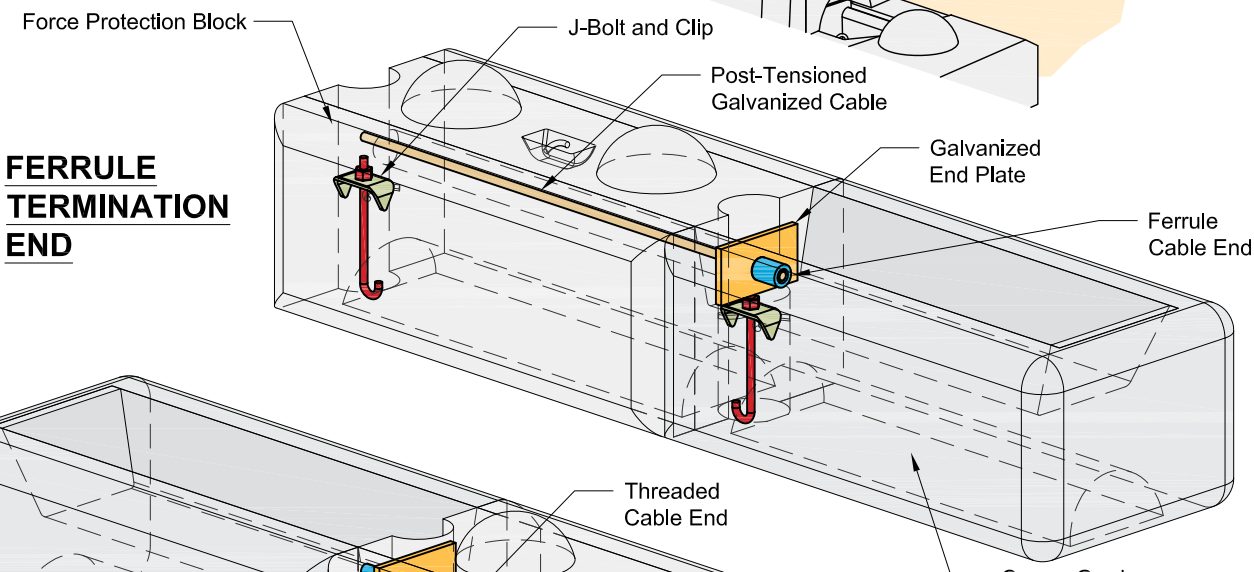
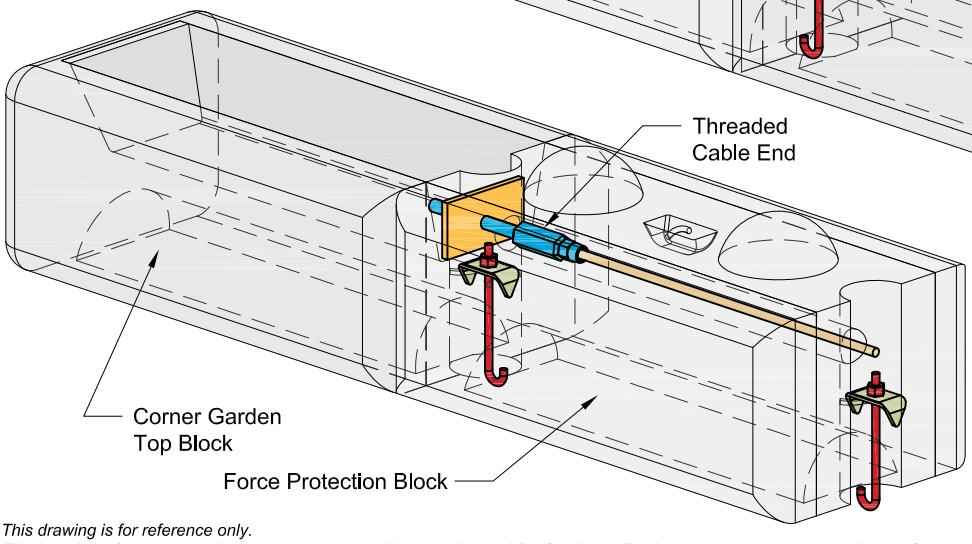




FERRULE TERMINATION END



THREADED TERMINATION END

- *This drawing is for reference only.*
- ***Final designs for construction must be prepared by a registered Professional Engineer*** *using the actual conditions of the proposed site.*
- ***Final wall design must address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the wall design.***

DRAWN BY:	J. JOHNSON	TITLE: **FORCE PROTECTION COPING WITH J-BOLTS AND POST-TENSIONED CABLE**	REDI-ROCK™
APPROVED BY:	J. JOHNSON		
DATE:	FEB. 8, 2015		
SHEET:	1 of 1	FILE: Force Protection Coping 020815.dwg	

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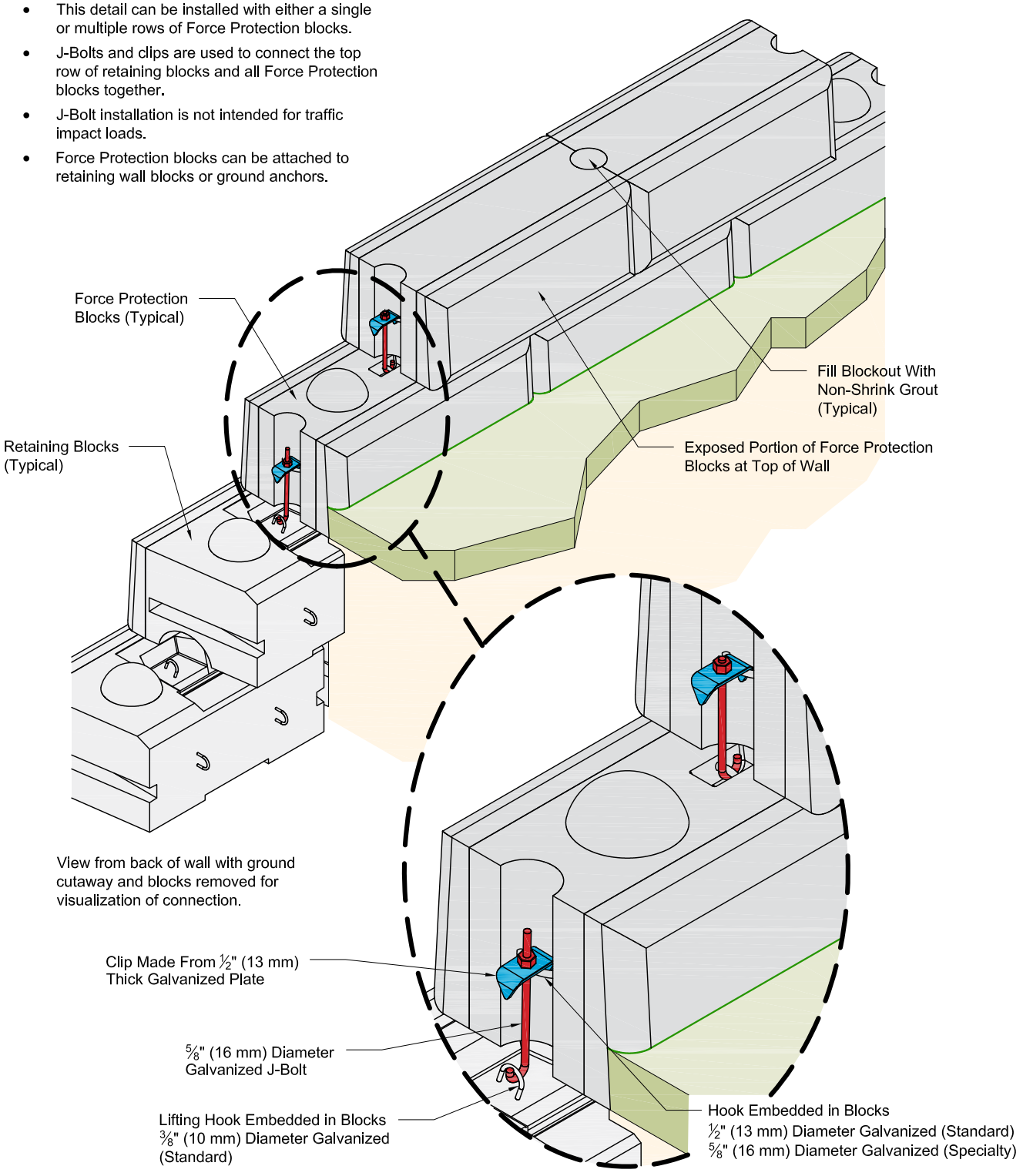
- This detail can be installed with either a single or multiple rows of Force Protection blocks.
- J-Bolts and clips are used to connect the top row of retaining blocks and all Force Protection blocks together.
- J-Bolt installation is not intended for traffic impact loads.
- Force Protection blocks can be attached to retaining wall blocks or ground anchors.



- *This drawing is for reference only.*
- ***Final designs for construction must be prepared by a registered Professional Engineer** using the actual conditions of the proposed site.*
- ***Final wall design must address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the wall design.***

DRAWN BY:	J. JOHNSON	TITLE: **FORCE PROTECTION COPING WITH J-BOLTS**	REDI-ROCK™ 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • www.redi-rock.com
APPROVED BY:	J. JOHNSON		
DATE:	FEB. 7, 2015		
SHEET:	1 of 1	FILE: FS Coping w Force Protection 020715.dwg	

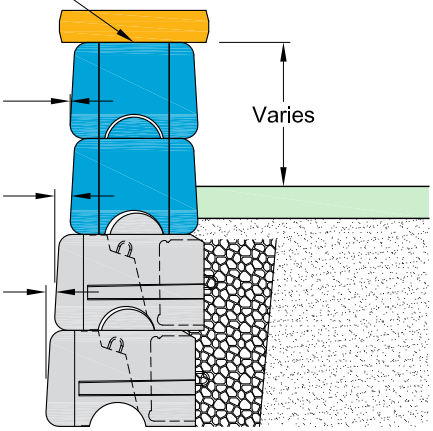
Freestanding Blocks with Cap at Top of Wall

Secure cap block to freestanding block with polyurethane sealant. Optional shear lugs cast into cap block or rebar ties that can be embedded in site-cast concrete (with garden block) are also available.

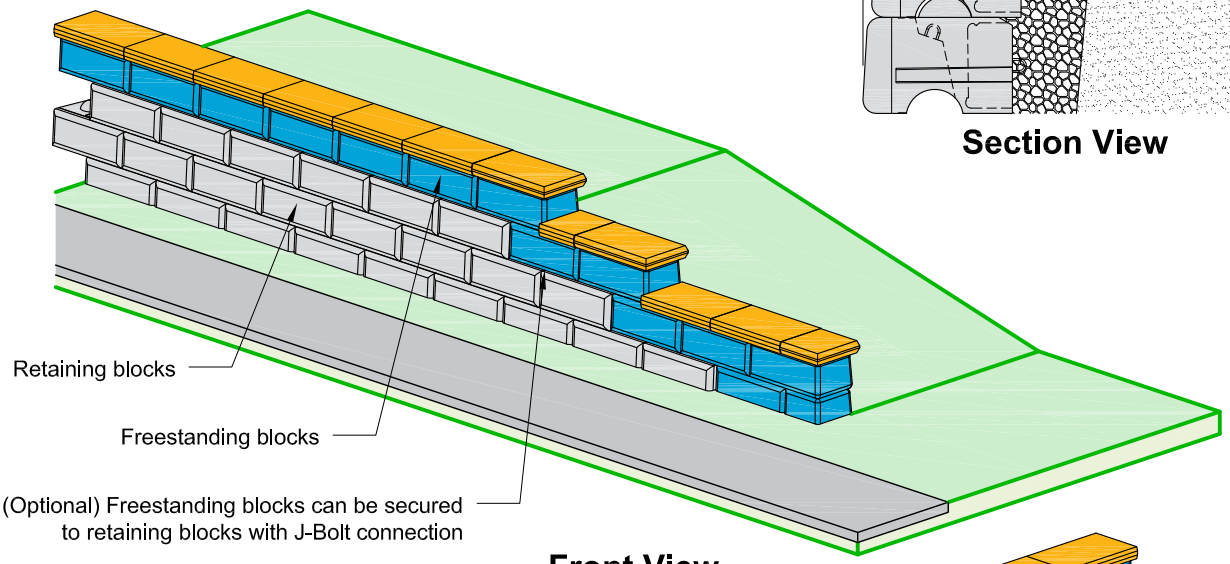
Setback = 0" (0 mm) on Freestanding blocks

Setback = 2 7/8" (73 mm) when 10" (254 mm) knob used
Setback = 1 5/8" (41 mm) when 7 1/2" (190 mm) knob used

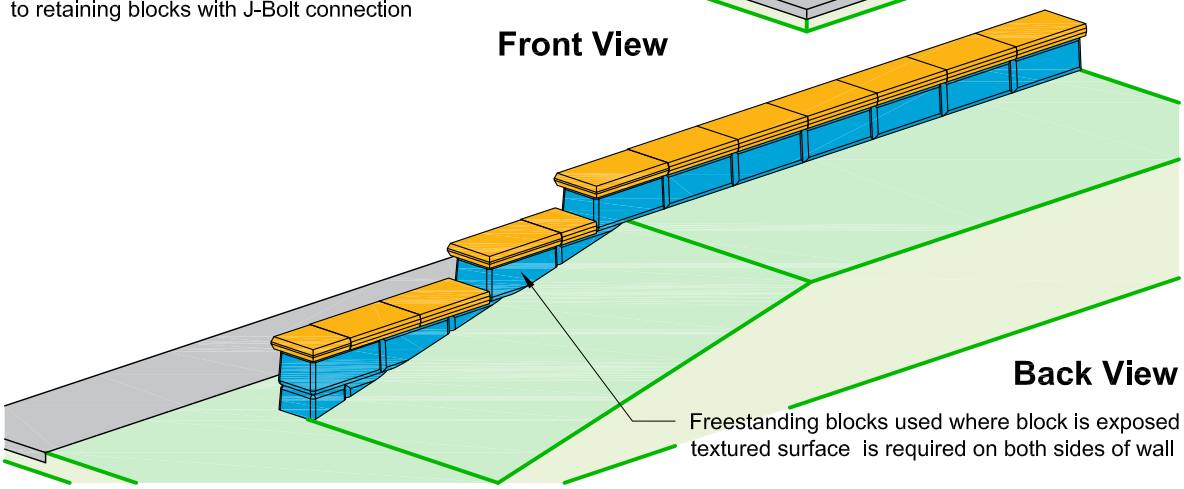
Setback = 1 5/8" (41 mm) when 10" (254 mm) knob used



Section View



Front View



Back View

One-component, highly flexible, non-priming, gun grade, high performance elastomeric polyurethane sealant shall have movement of plus or minus 25% per ASTM C719, tensile strength greater than 200 psi (1.4 MPa) per ASTM D412, and adhesion to peel on concrete greater than 20 PLI per ASTM C794. Apply sealant in one and one half-inch (1.5") (38 mm) diameter round "hersey kiss" shaped dollops located in two rows at the top of the Freestanding blocks at 8" (203 mm) on center.

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:	06-22-2015
SHEET:	1 of 1

TITLE: Freestanding Blocks with Cap at Top of Wall

FILE: 3 Freestanding Blocks with Cap at Top of Wall 062215.dwg

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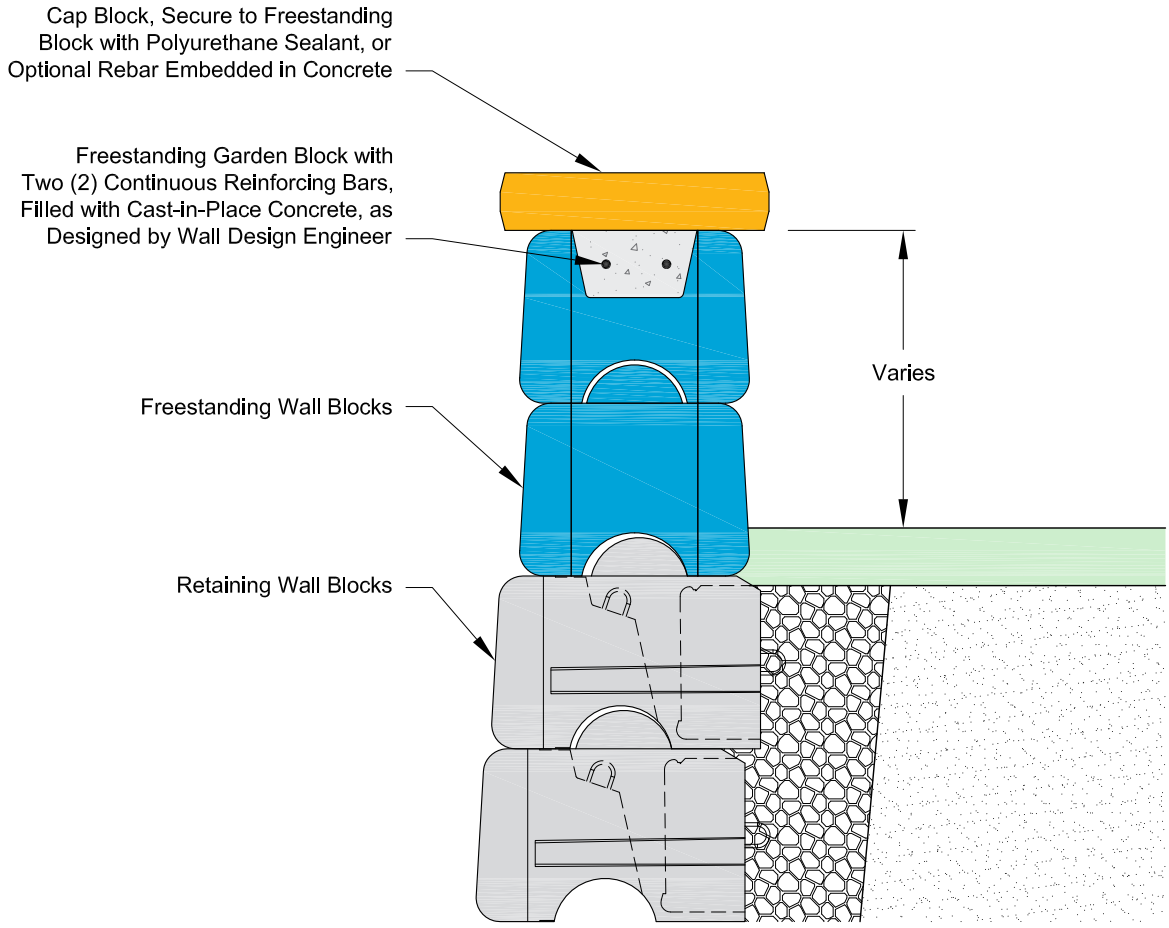

Section View

Sealant Adhesive: One-component, highly flexible, non-priming, gun grade, high performance elastomeric polyurethane sealant shall have movement of plus or minus 25% per ASTM C719, tensile strength greater than 200 psi (1.4 MPa) per ASTM D412, and adhesion to peel on concrete greater than 20 PLI per ASTM C794. Apply sealant in one and one half-inch (1.5") (38 mm) diameter round "hersey kiss" shaped dollops located in two rows at the top of the Freestanding blocks at 8" (203 mm) on center.

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DRAWN BY:	BWL	TITLE:	Freestanding Bond Beam at Top of Wall
APPROVED BY:	JRJ		
DATE:	01-14-2016		
SHEET:	1 of 1	FILE:	Freestanding Bond Beam at Top of Wall 011416.dwg

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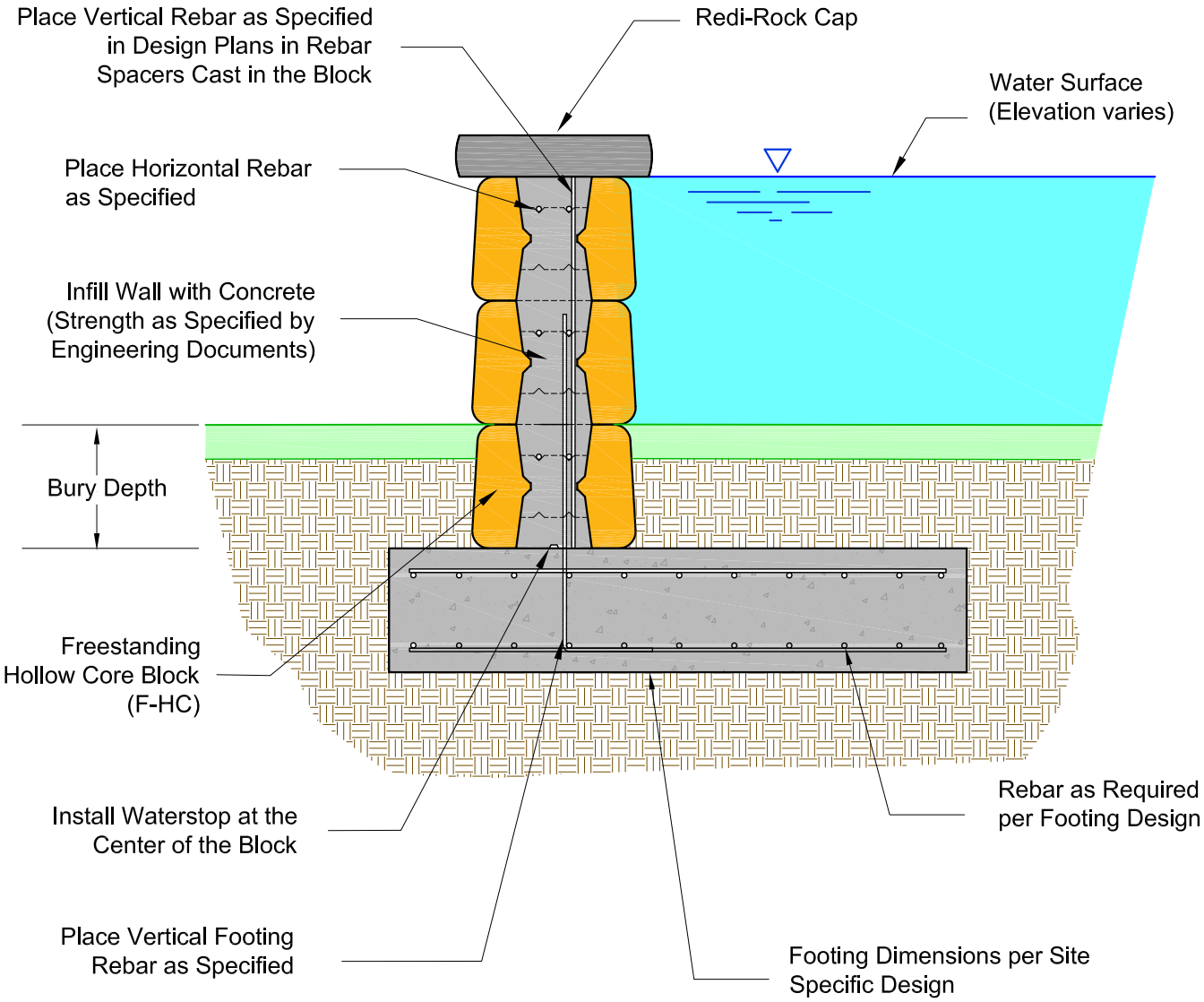
CONCEPTUAL FLOOD CONTROL WALL



NOTE: Degree of water tightness depends on many factors. Slight seepage through joints can be expected using standard construction practices. See www.Redi-Rock.com for more information on flood control walls including detailed notes from full scale demonstration project testing.

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DRAWN BY:	D. Cerminaro	TITLE: **Conceptual Flood Control Wall Section**	REDI-ROCK
APPROVED BY:	J. Johnson		
DATE:	20 December 2017		
SHEET:	1 of 2	FILE: F-HC Conceptual Flood Control Wall Section 122017.dwg	

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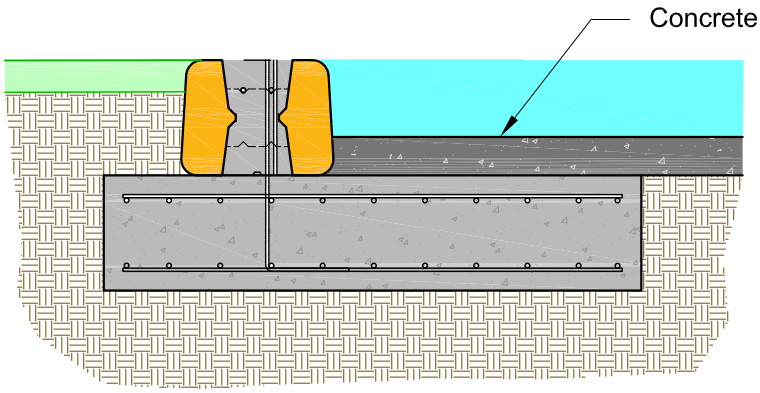
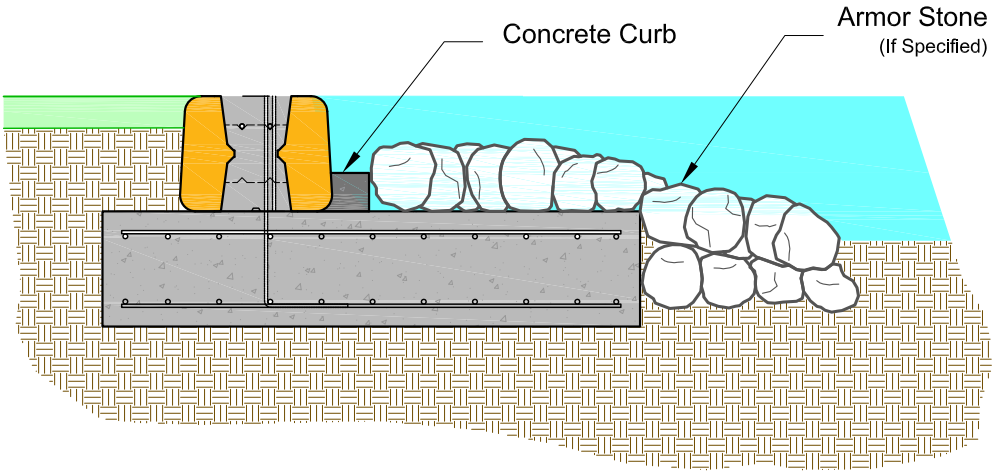
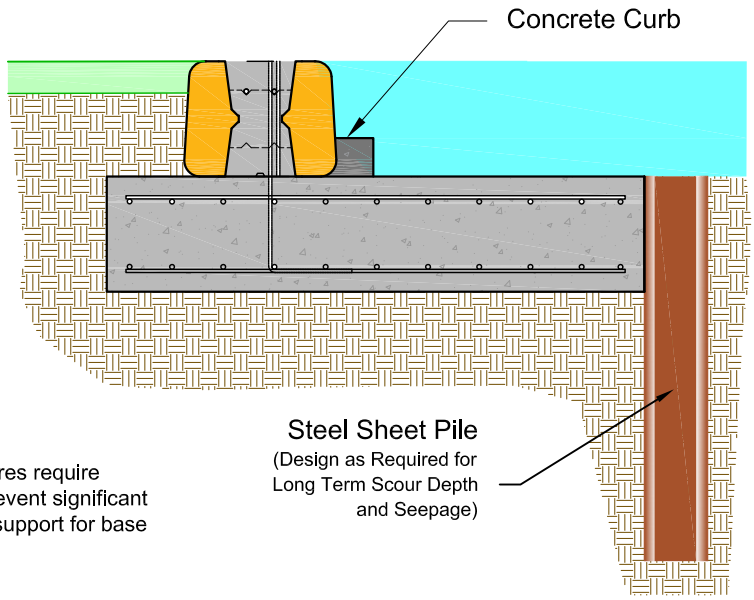
OPTIONAL BASE DETAILS FOR FLOOD CONTROL WALLS







NOTE: Flood control structures require long-term maintenance to prevent significant erosion and loss of soil and support for base of wall

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DRAWN BY:	D. Cerminaro	TITLE: **Optional Base Details for Flood Control Walls**	REDI ROCK
APPROVED BY:	J. Johnson		
DATE:	20 December 2017		
SHEET:	2 of 2	FILE: F-HC Conceptual Flood Control Wall Section 122017.dwg	

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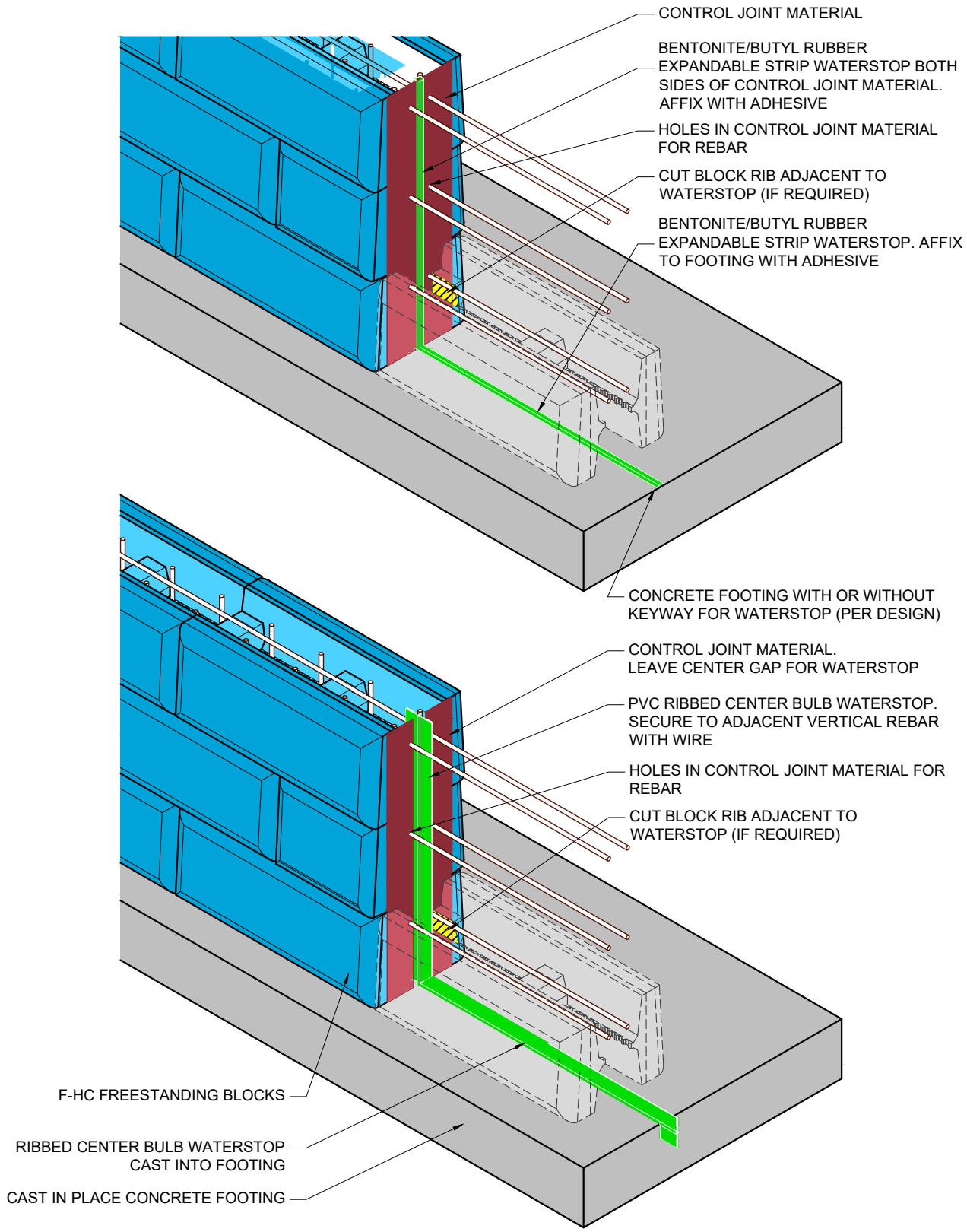

DRAWN BY:	N. LINDWALL
APPROVED BY:	J. JOHNSON
DATE:	12/20/17
SHEET:	1 of 1

TITLE:

F-HC FREESTANDING BLOCK WATERSTOP OPTIONS

FILE: F-HC Waterstop Options 122017.dwg

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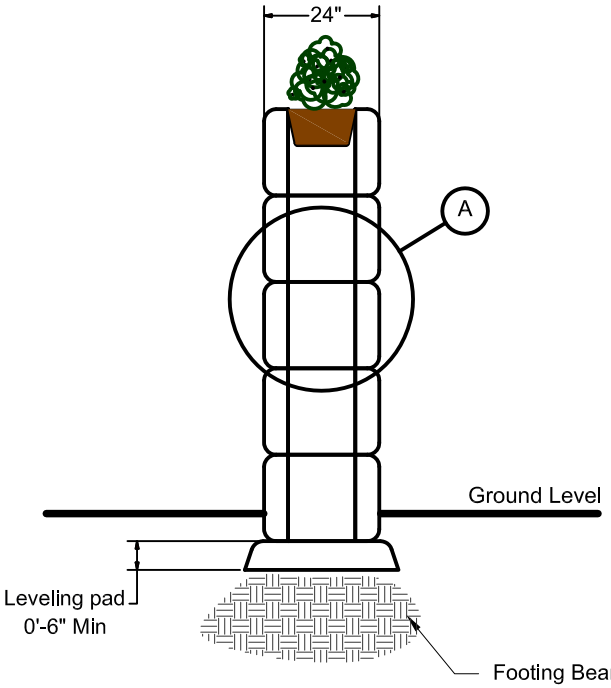
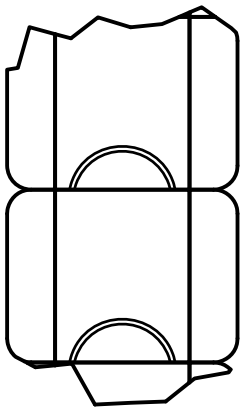
Freestanding Perimeter Wall



*Drawing Not to Scale



DETAIL A

Footing Bearing Material Shall Be Granular Compacted to 95% Of Standard Proctor or 90% of Modified Proctor and Tested To Assure Adequate Bearing Capacity

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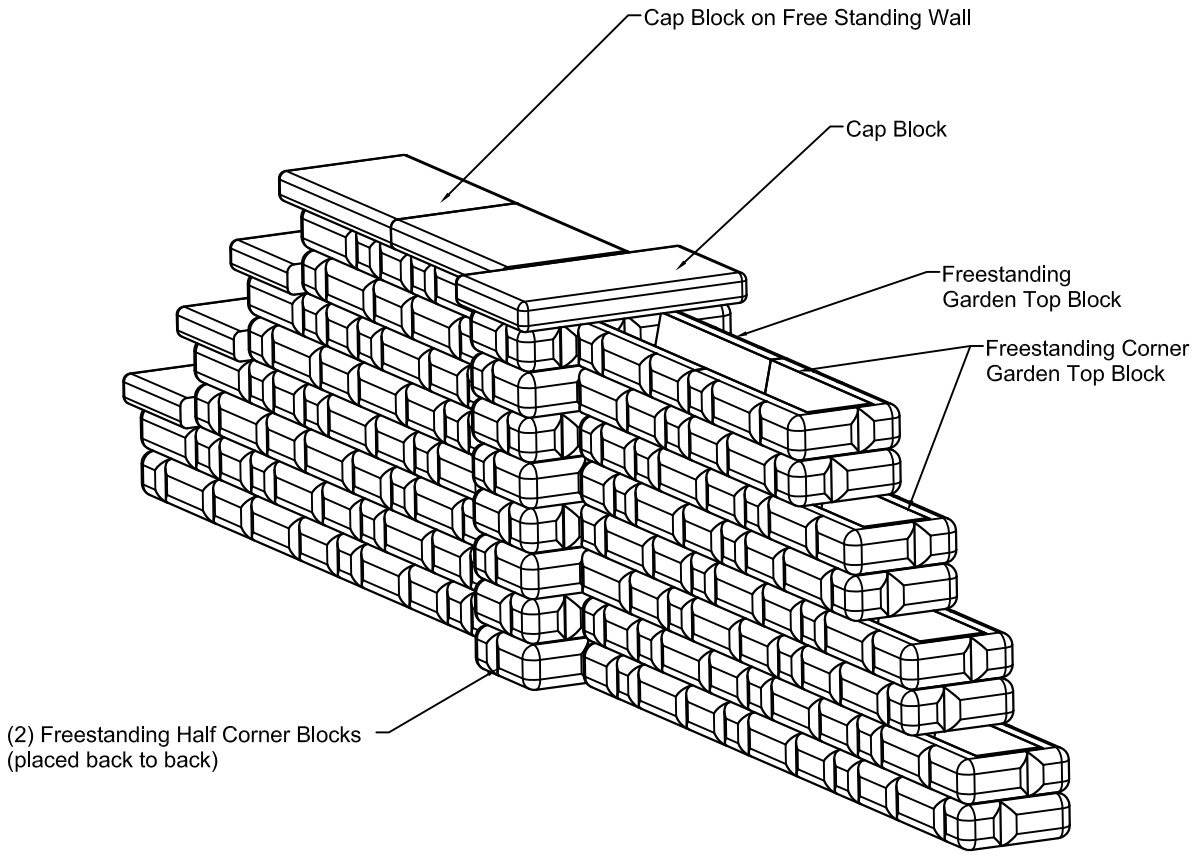
DRAWN BY:	JRJ	TITLE: Freestanding Perimeter Wall	REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE: 1 Freestanding Perimeter Wall 062215.dwg	

Freestanding Pilaster Wall



This sketch shows two options: On the near side of Pilaster, Freestanding Garden Blocks for vegetation, and solid cap blocks on the far side of the pilaster.

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DRAWN BY:	JRJ	TITLE: Freestanding Pilaster Wall	REDI-ROCK®
APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1	FILE: 2 Freestanding Pilaster Wall 062215.dwg	

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