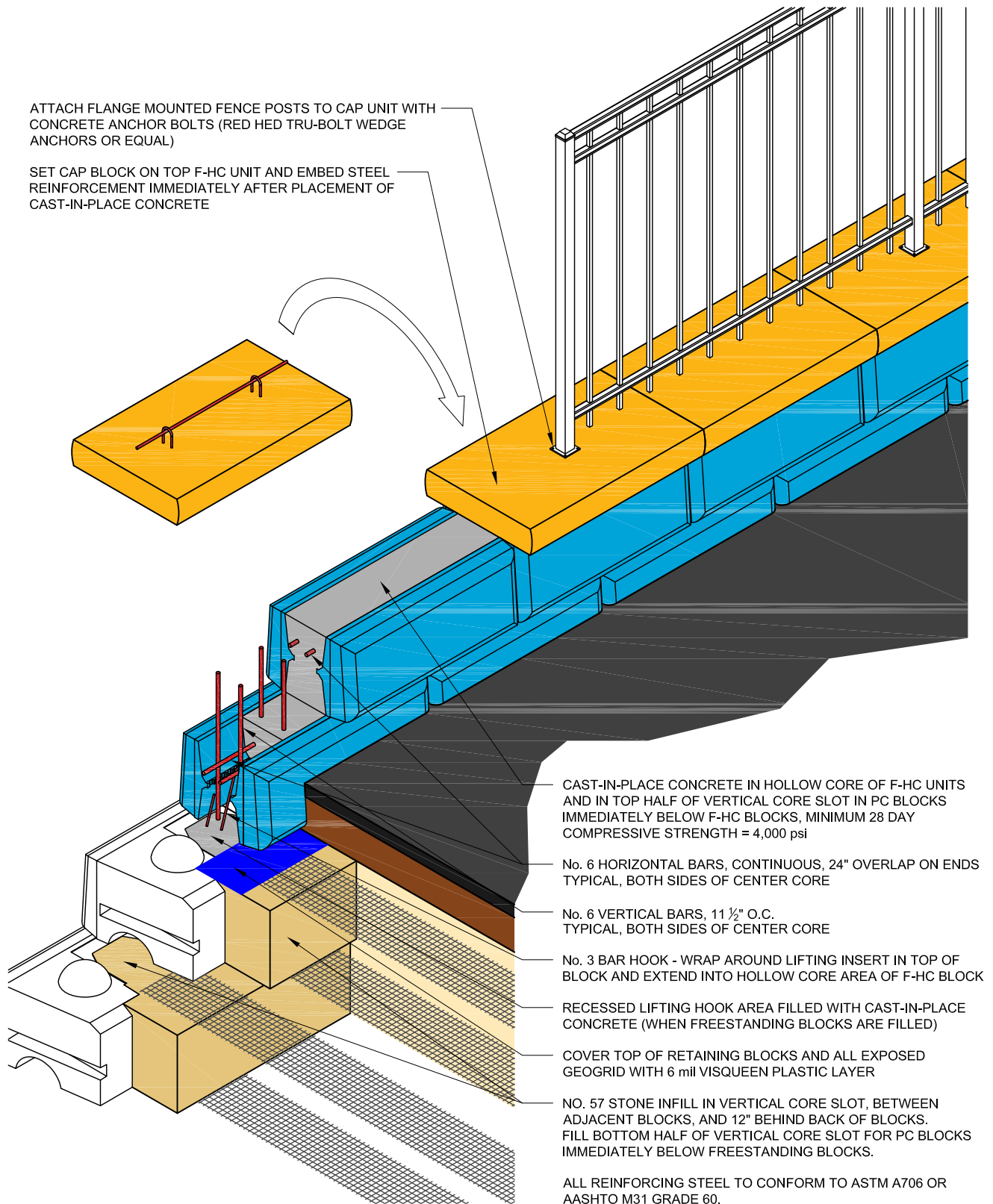


ATTACH FLANGE MOUNTED FENCE POSTS TO CAP UNIT WITH CONCRETE ANCHOR BOLTS (RED HED TRU-BOLT WEDGE ANCHORS OR EQUAL)

SET CAP BLOCK ON TOP F-HC UNIT AND EMBED STEEL REINFORCEMENT IMMEDIATELY AFTER PLACEMENT OF CAST-IN-PLACE CONCRETE



DRAWN BY: J. JOHNSON

APPROVED BY:

DATE: 01/18/17

SHEET: 1 OF 2

TITLE:

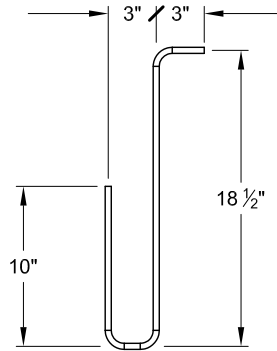
F-HC FREESTANDING BLOCK COPING WITH FENCE ATTACHMENT

FILE: F-HC Coping with Fence Attachment R-Anchor Option 011817.dwg

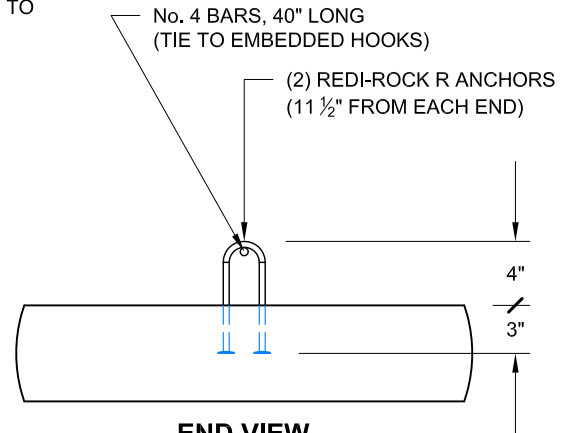
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ALL REINFORCING STEEL TO CONFORM TO
ASTM A706 OR AASHTO M31 GRADE 60.

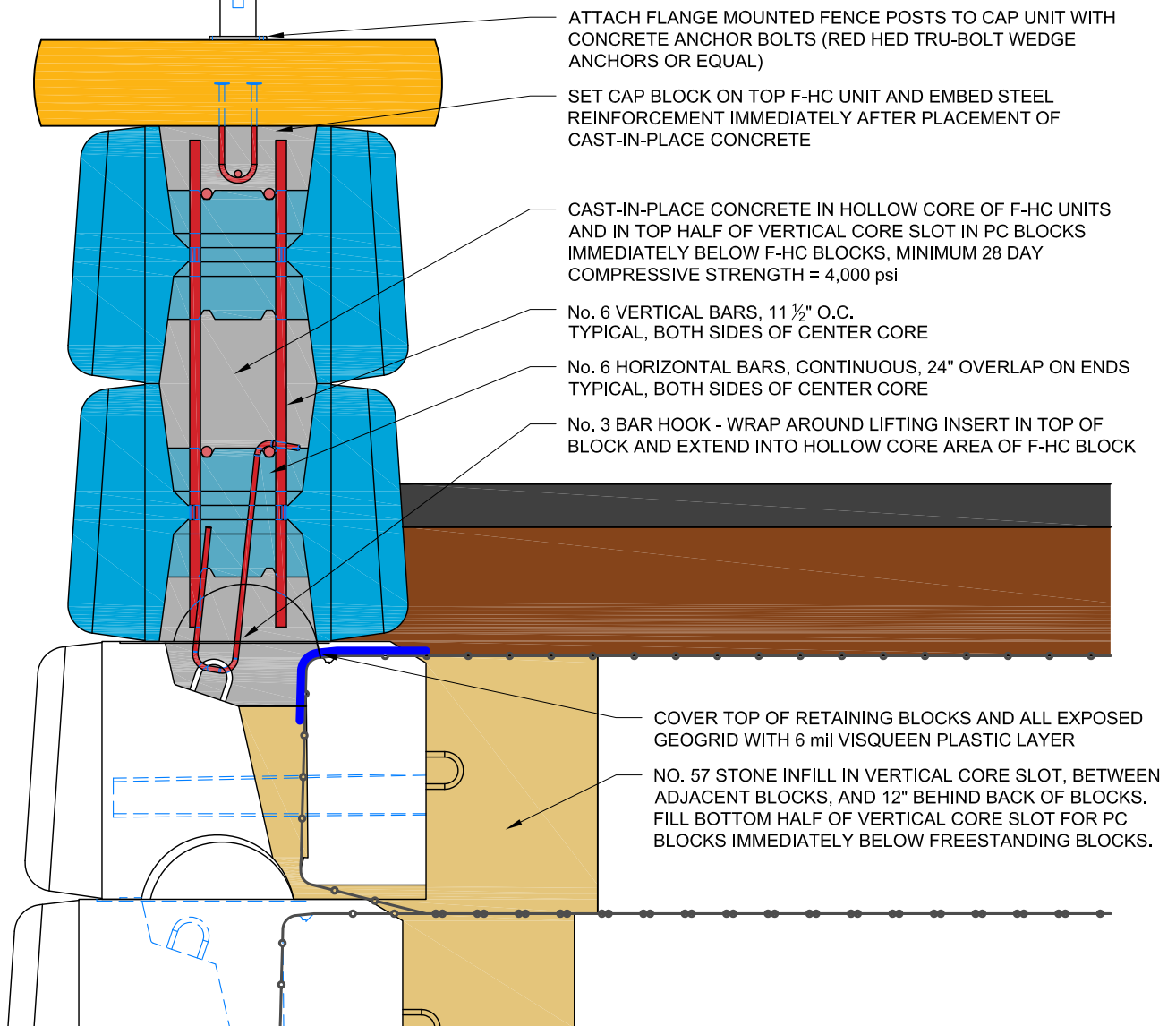


BEND DETAIL
NO. 3 REBAR HOOKS



END VIEW

CAP BLOCK CAST WITH R-ANCHORS (SPECIALTY BLOCK)



DRAWN BY: J. JOHNSON

APPROVED BY:

DATE: 01/18/17

SHEET: 2 OF 2

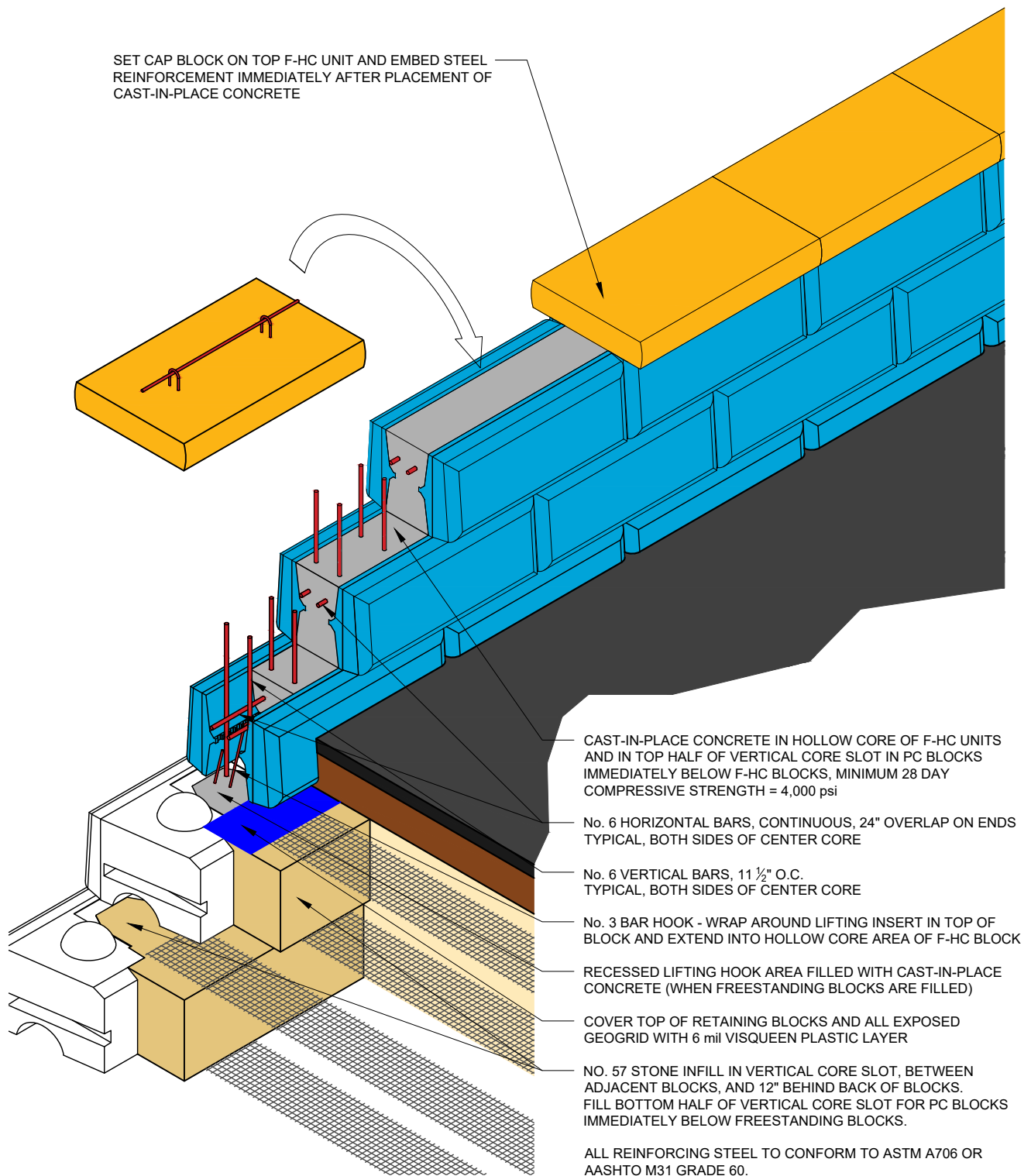
TITLE:

F-HC FREESTANDING BLOCK COPING WITH FENCE ATTACHMENT

FILE: F-HC Coping with Fence Attachment R-Anchor Option 011817.dwg

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DRAWN BY: N. LINDWALL

APPROVED BY: J. JOHNSON

DATE: 06/06/2018

SHEET: 1 OF 1

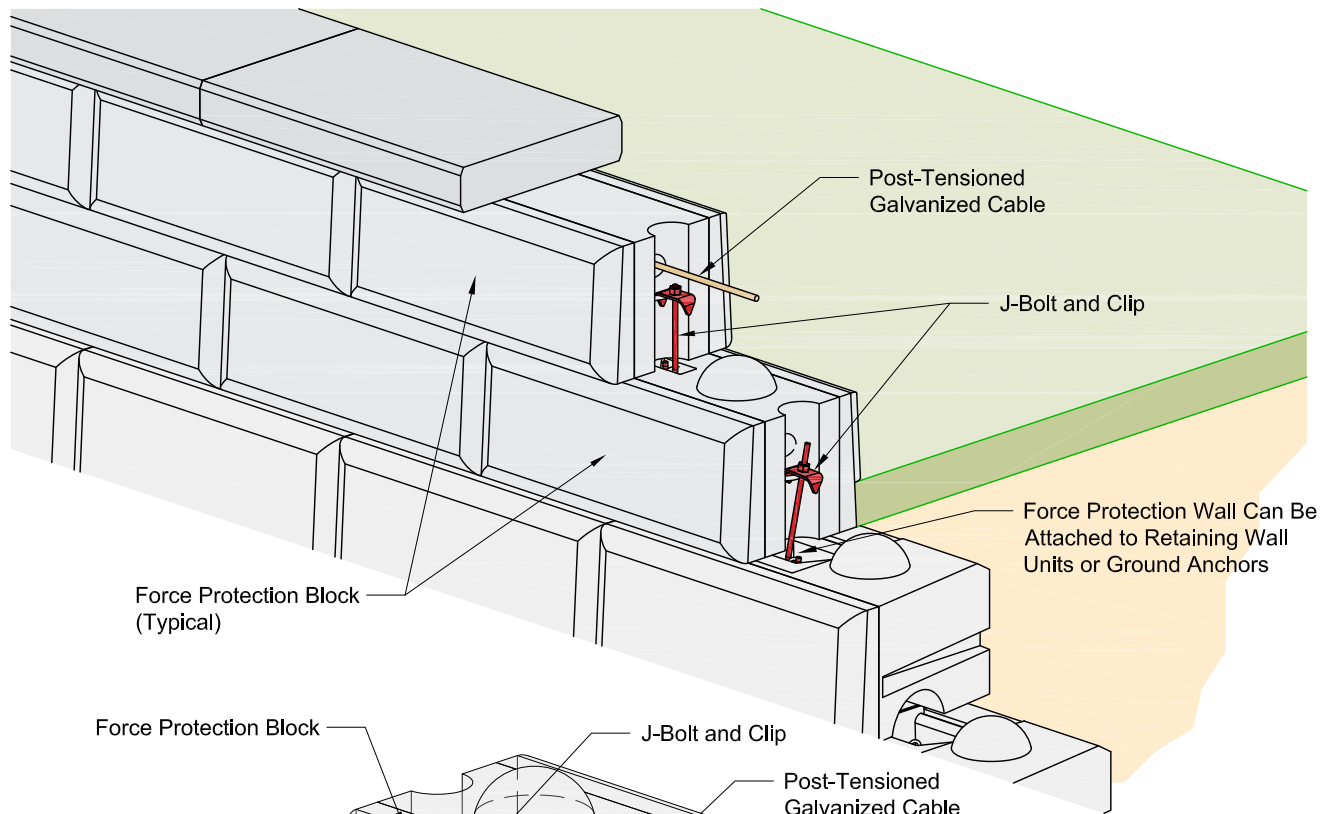
TITLE:

F-HC FREESTANDING BLOCK COPING

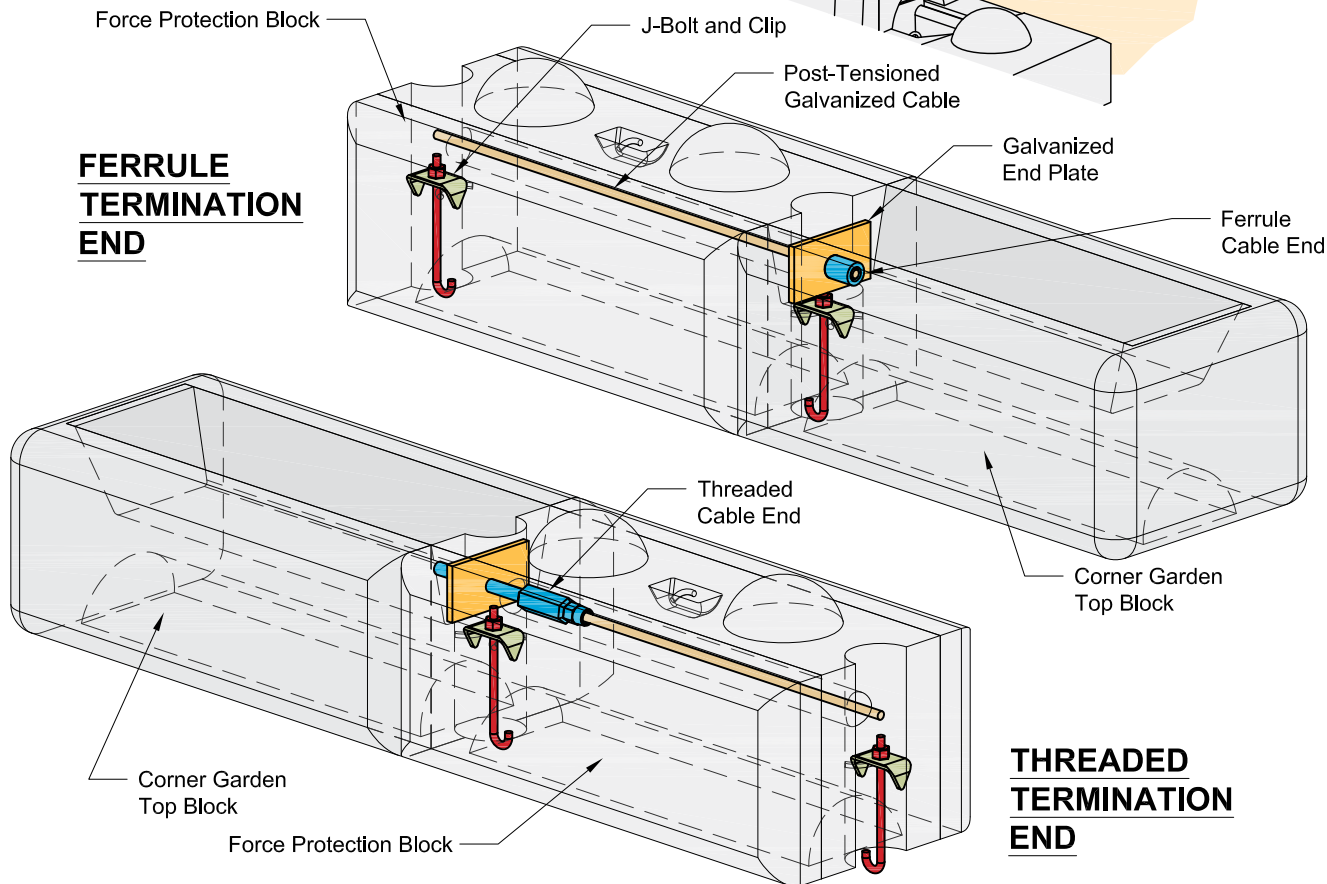
FILE: F-HC Coping R-Anchor Option 060618.dwg

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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

APPROVED BY: J. JOHNSON

DATE: FEB. 8, 2015

SHEET: 1 of 1

TITLE:

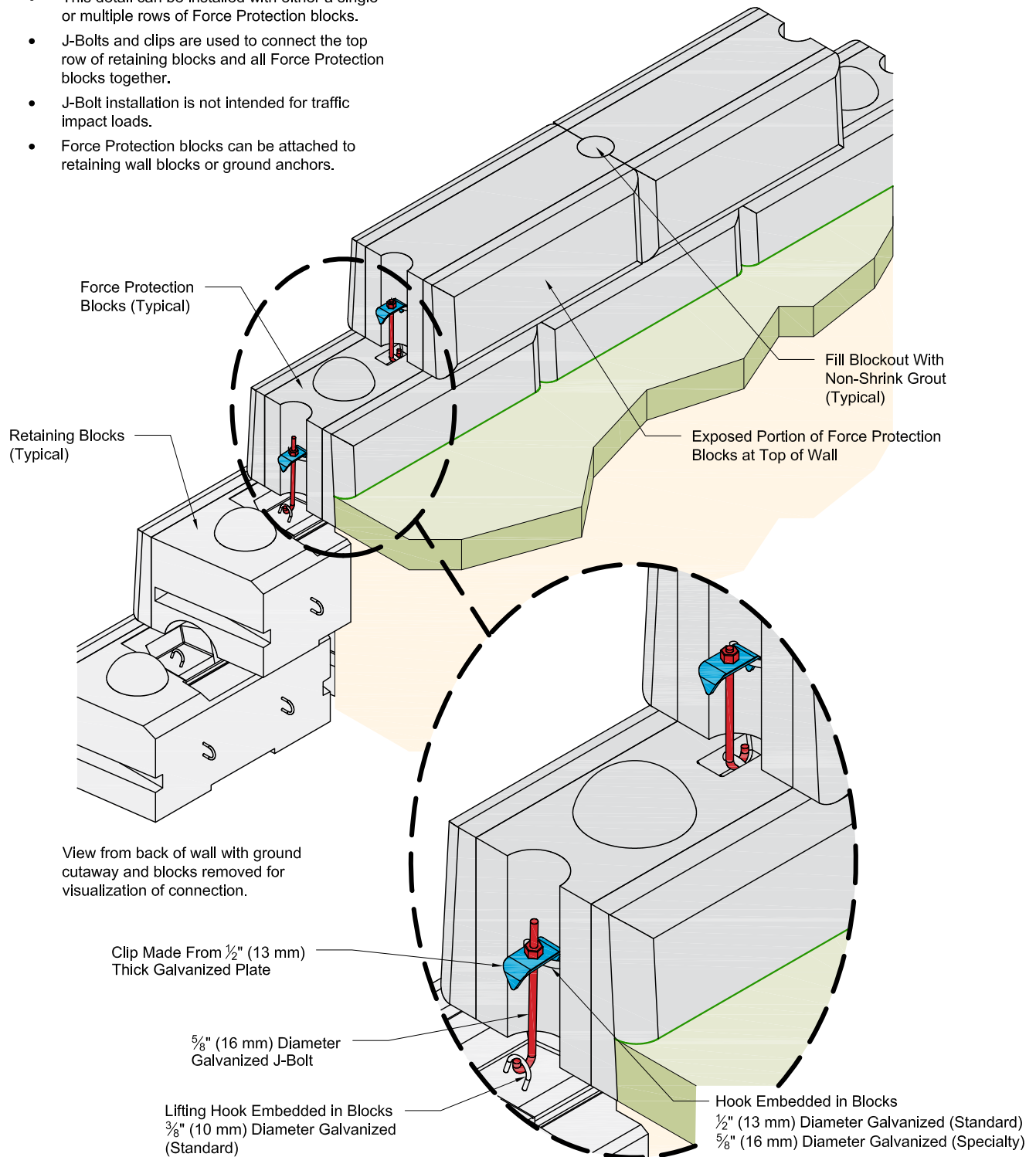
**FORCE PROTECTION COPING WITH J-BOLTS
AND POST-TENSIONED CABLE**

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

APPROVED BY: J. JOHNSON

DATE: FEB. 7, 2015

SHEET: 1 of 1

TITLE: **FORCE PROTECTION COPING WITH J-BOLTS**

FILE: FS Coping w Force Protection 020715.dwg

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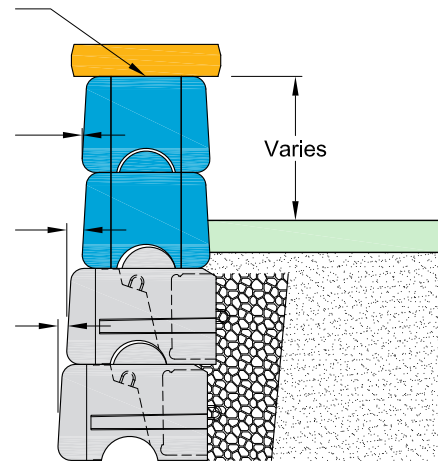
Freestanding Blocks with Cap at Top of Wall

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.

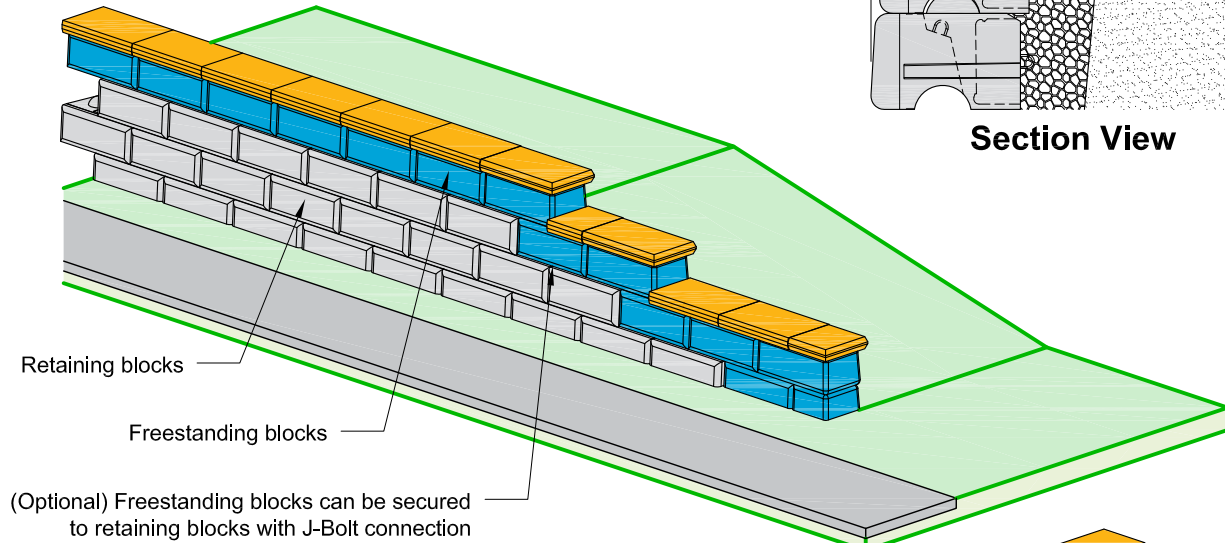
Setback = 0" (0 mm) on Freestanding blocks

Setback = $2\frac{7}{8}$ " (73 mm) when 10" (254 mm) knob used
Setback = $1\frac{5}{8}$ " (41 mm) when $7\frac{1}{2}$ " (190 mm) knob used

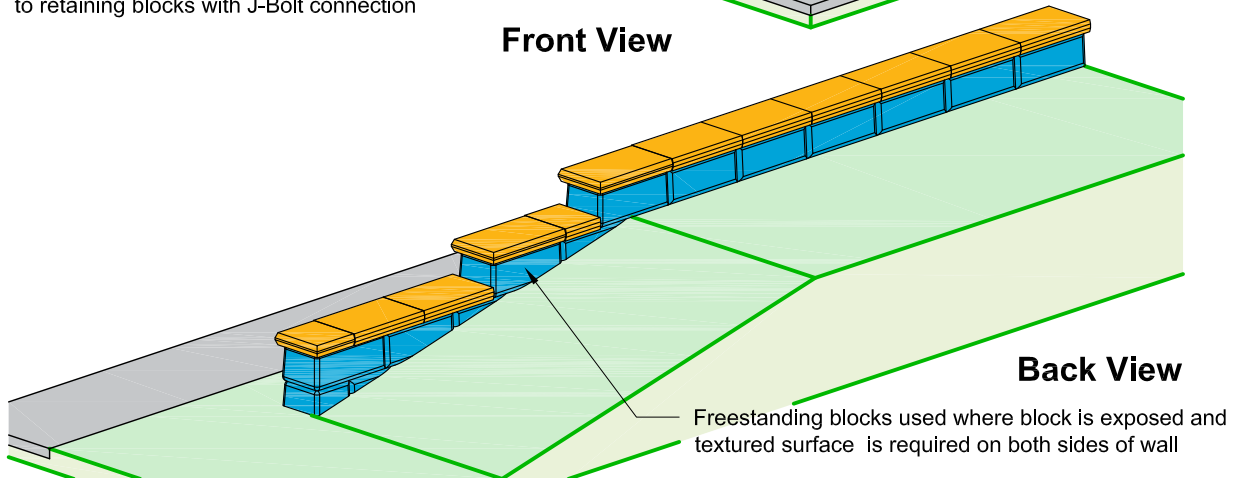
Setback = $1\frac{5}{8}$ " (41 mm) when 10" (254 mm) knob used



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

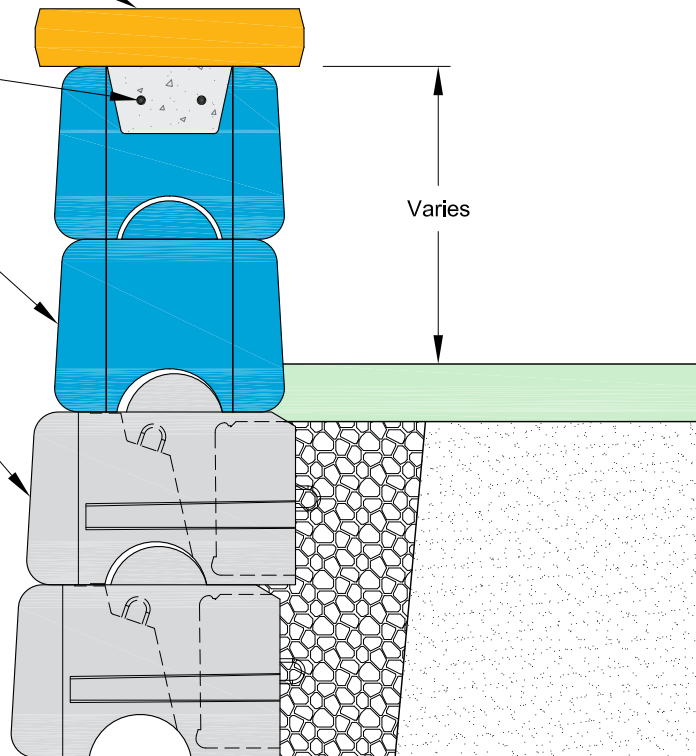
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Cap Block, Secure to Freestanding Block with Polyurethane Sealant, or Optional Rebar Embedded in Concrete

Freestanding Garden Block with Two (2) Continuous Reinforcing Bars, Filled with Cast-in-Place Concrete, as Designed by Wall Design Engineer

Freestanding Wall Blocks

Retaining Wall Blocks



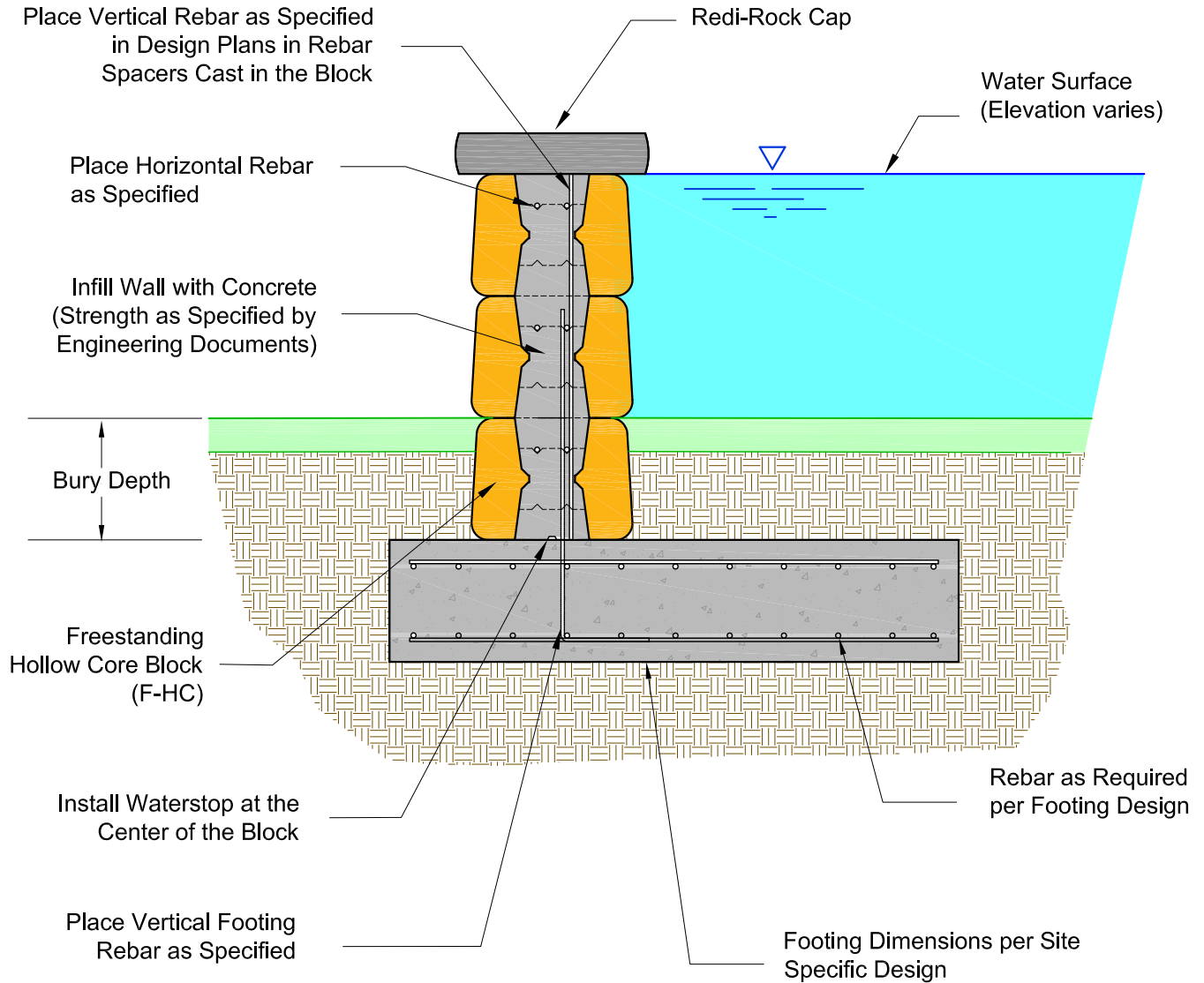
Section View

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.

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:	BWL	TITLE: Freestanding Bond Beam at Top of Wall	 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	01-14-2016		
SHEET:	1 of 1	FILE: Freestanding Bond Beam at Top of Wall 011416.dwg	

CONCEPTUAL FLOOD CONTROL WALL

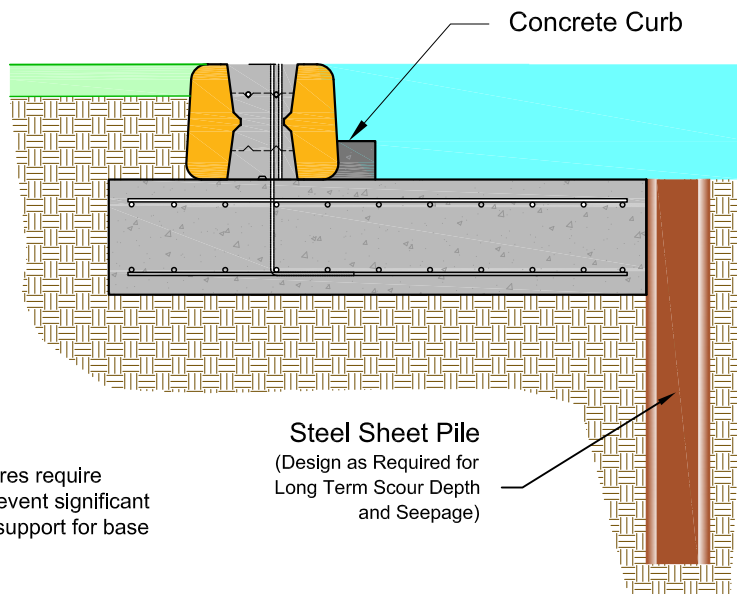
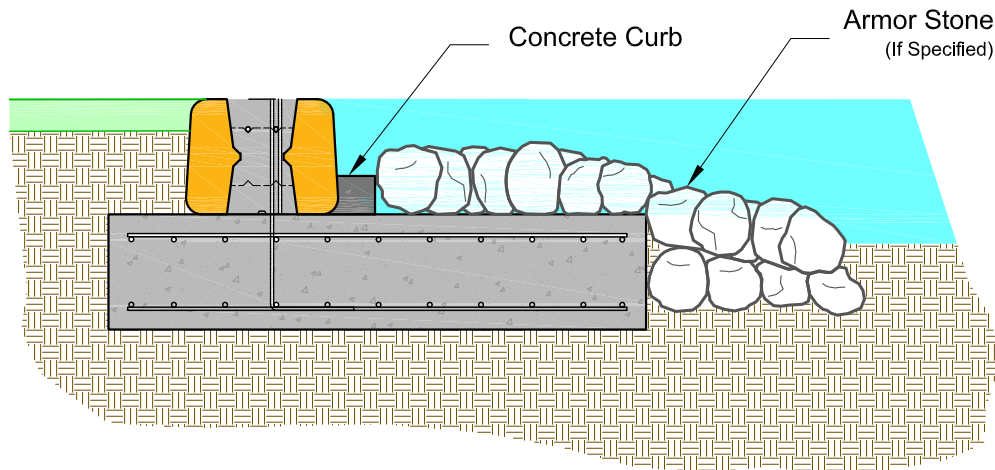
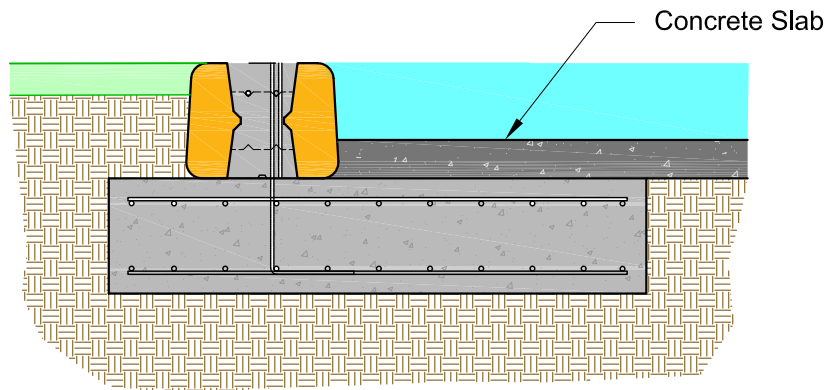


NOTE: Degree of water tightness depends on many factors. Slight seepage through joints can be expected using standard construction practices. See www.Redi-Rock.com for more information on flood control walls including detailed notes from full scale demonstration project testing.

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. Final wall design must address both internal and external drainage and all modes of wall stability.

DRAWN BY:	D. Germinaro	TITLE:	Conceptual Flood Control Wall Section	REDI-ROCK 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	J. Johnson			
DATE:	20 December 2017			
SHEET:	1 of 2	FILE: F-HC Conceptual Flood Control Wall Section 122017.dwg		

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

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. Final wall design must address both internal and external drainage and all modes of wall stability.

DRAWN BY: D. Cerminaro

APPROVED BY: J. Johnson

DATE: 20 December 2017

SHEET: 2 of 2

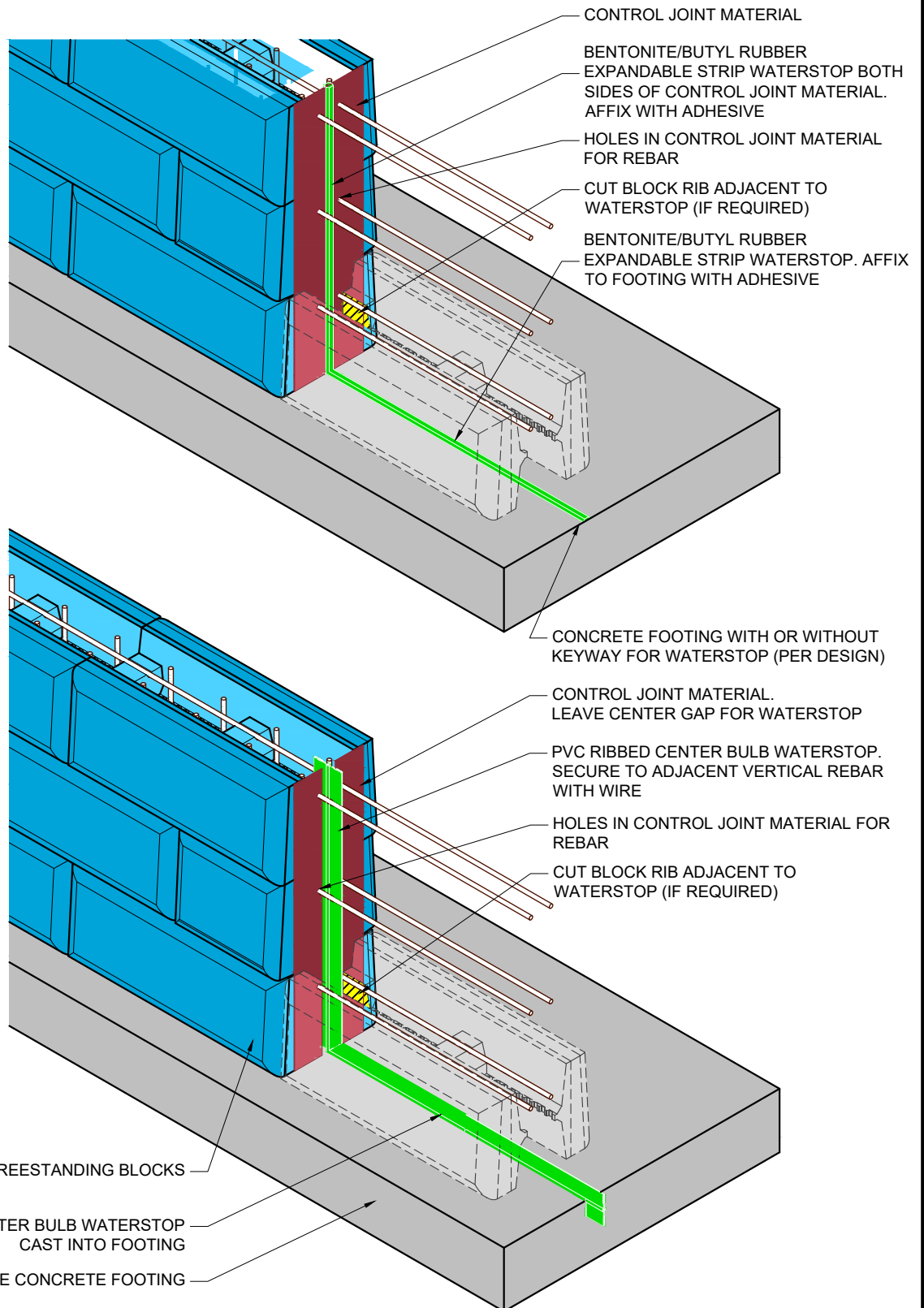
TITLE:

Optional Base Details for Flood Control Walls

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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