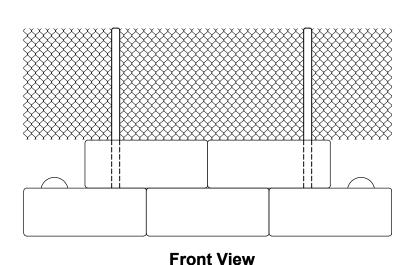
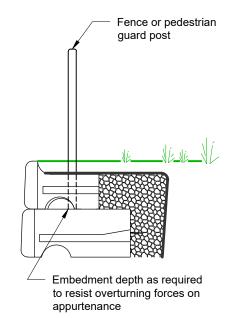
## **Fence or Pedestrian Guard Connection Options** Grout fence or railing Grout fence or railing post in place post in place Field core into Field core into block Top block in second course These generic pedestrian guard and fence details show a few potential options for their installation on the top of a Redi-Rock retaining wall. It is the design engineer's responsibility to fully design and detail the connection of the guard posts to the retaining wall blocks and assure acceptable resistance to the applied forces. Redi-Rock blocks are plain concrete, without steel reinforcement. **Grouted Connection Grouted Connection** (1 Block) (2 Blocks) Fence or railing post Core and grout or connect with flanged base plate Flange base plate attached to top block with adhesive set anchor bolts Reinforced concrete sidewalk

DRAWN BY:	JRJ	Fence or Pedestrian Guard
APPROVED BY:	JRJ	
DATE:	06-22-2015	Connection Options
SHEET:	1 of 1	FILE: 5 Fence or Pedestrian Guard Connection Options 062215.dwg

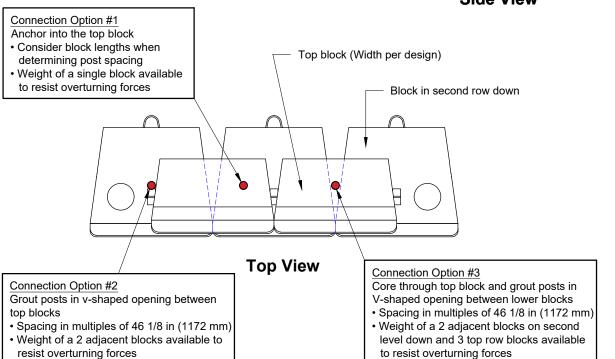


## **Fence or Pedestrian Guard Connection Locations**





## **Side View**



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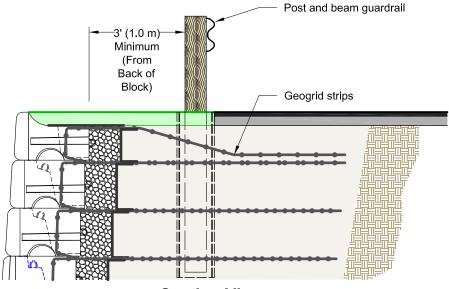
DRAWN BY:	LBH	
APPROVED BY:	LBH	
DATE:	08-18-2023	
SHEET:	1 of 1	ſ

Fence or Pedestrian Guard Connection Locations

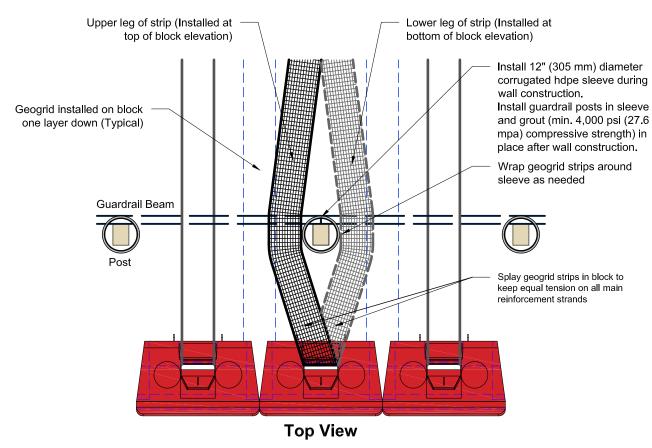
FILE: Fence or Pedestrian Guard Connection Locations 08182023.dwg



## Post and Beam Guardrail

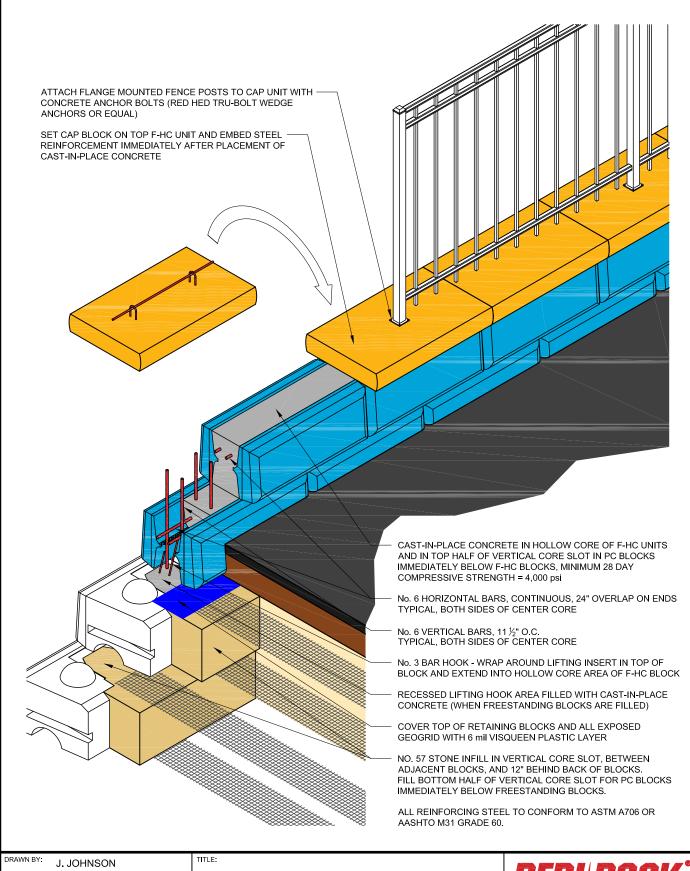


## **Section View**



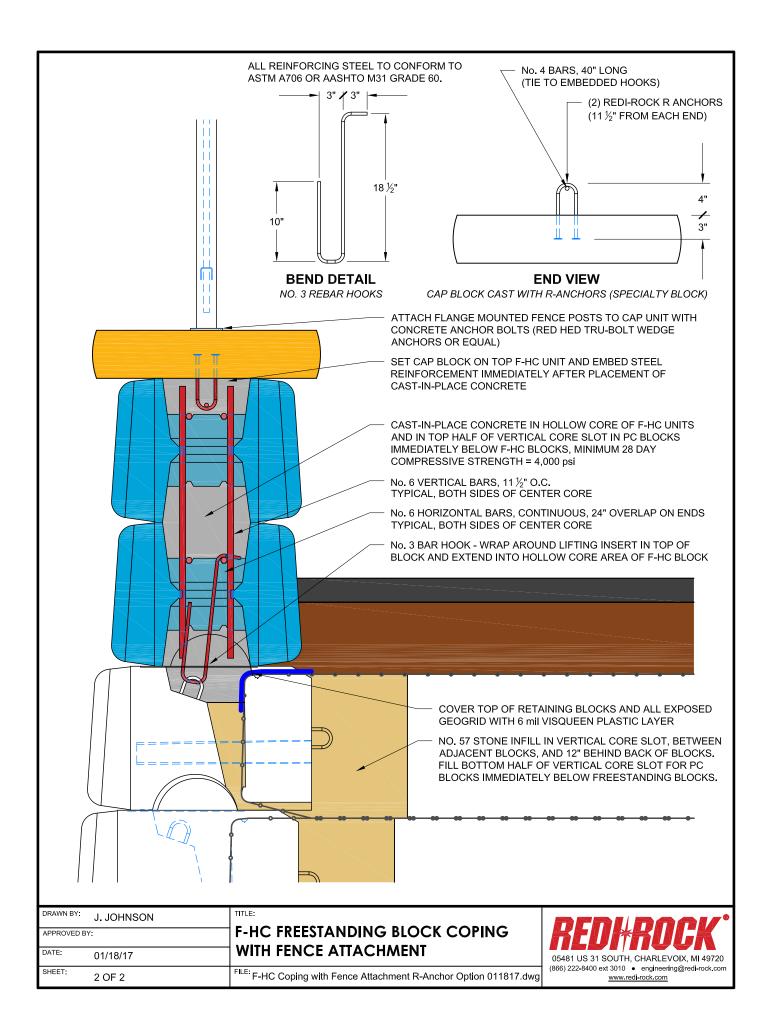
DRAWN BY:	JRJ	TITLE:	
APPROVED BY:	JRJ		Post and Beam Guardrail
DATE:	06-22-2015		
SHEET:	1 of 1	FILE:	7 Post and Beam Guardrail 062215.dwg

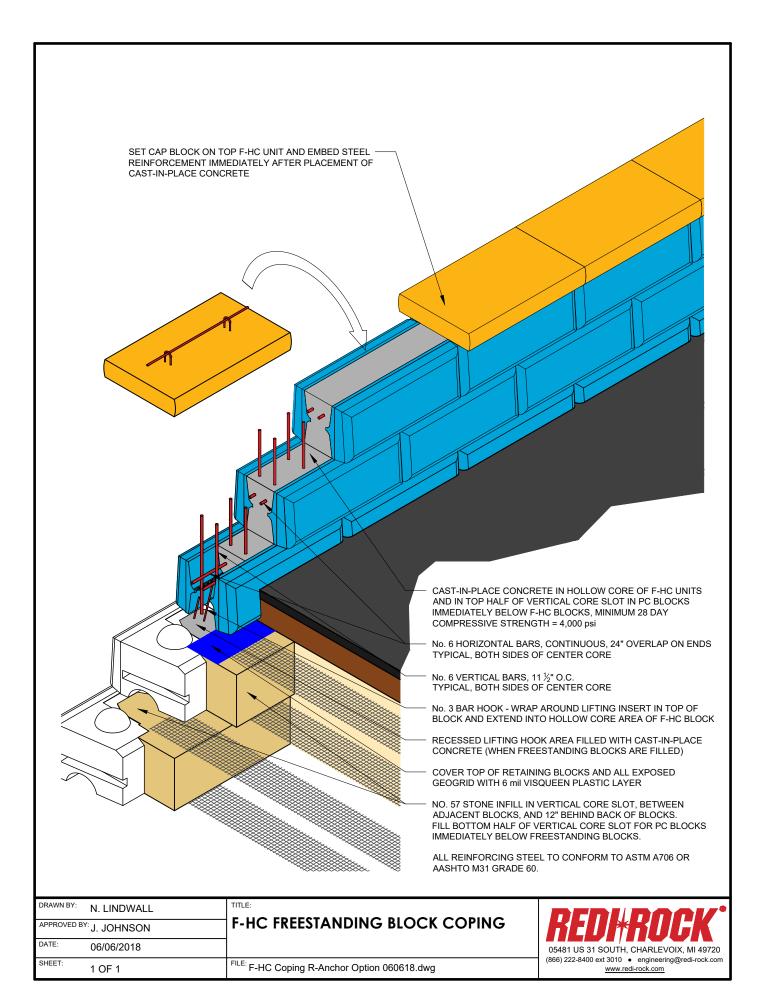


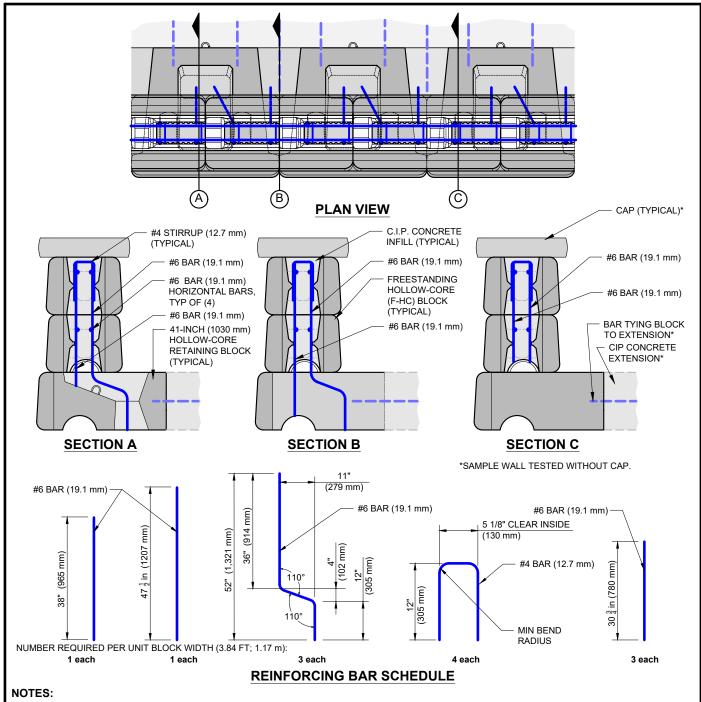


J. JOHNSON APPROVED BY:		F-HC FREESTANDING BLOCK COPING
DATE:	01/18/17	WITH FENCE ATTACHMENT
SHEET:	1 OF 2	FILE: F-HC Coping with Fence Attachment R-Anchor Option 011817.dwg





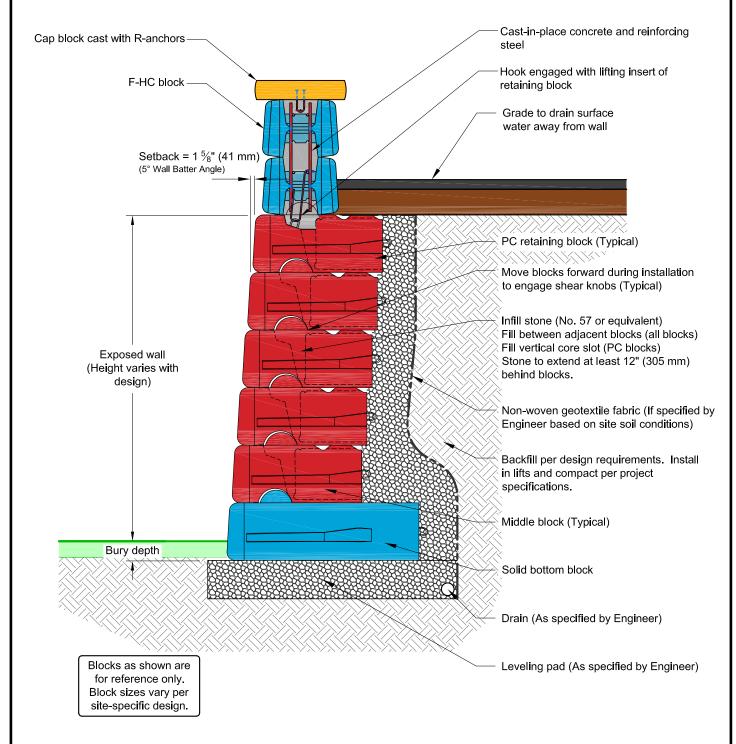




- 1. DETAIL SHOWN REPRESENTS CONFIGURATION OF SAMPLE WALL TESTED IN ASTER BRANDS TEST FACILITY.
- 2. SAMPLE WALL EXHIBITED ULTIMATE STRUCTURAL CAPACITY GREATER THAN 63,000 LBS (282 kN) AT A HEIGHT OF 29  $\frac{1}{2}$  INCHES (750 mm), CONSISTENT WITH AASHTO TL-4 EQUIVALENT STATIC LOADING.
- 3. C.I.P. CONCRETE INFILL: 4000 psi (27.6 MPa) COMPRESSIVE STRENGTH, REINFORCING STEEL BARS: 60,000 PSI (410 MPa).
- 4. REFER TO TEST REPORT FOR MORE INFORMATION.
- 5. USER IS RESPONSIBLE FOR DETERMINING SUITABILITY FOR PROJECT USE.
- 6. THIS DETAIL IS SHOWN FOR REFERENCE ONLY. DESIGN BY A LICENSED ENGINEER IS REQUIRED.
- 7. DESIGN MUST ALSO CONSIDER OVERTURNING AND SLIDING RESISTANCE.
- 8. \*CIP CONCRETE EXTENSION OR MOMENT SLAB MAY BE CAST AGAINST BLOCKS TO ADD OVERTURNING AND SLIDING RESISTANCE. TIE TO BLOCKS WITH REINFORCING STEEL, AS NEEDED. (NOT INCLUDED IN TEST.)

DRAWN BY: N. LINDWALL	TITLE:	DEDUDOOM*
REVIEWED BY: D. HULA	F-HC FREESTANDING BLOCK	KEU#KUUK
DATE: 08/26/2021	PARAPET/BARRIER CONCEPT	2940 Parkview Dr., Petoskey, MI 49770
SHEET: 1 OF 1	F-HC _R-41HC_Parapet_Detail_082621.dwg	(866) 222-8400 ext 3010 ● engineering@redi-rock.com <u>www.redi-rock.com</u>

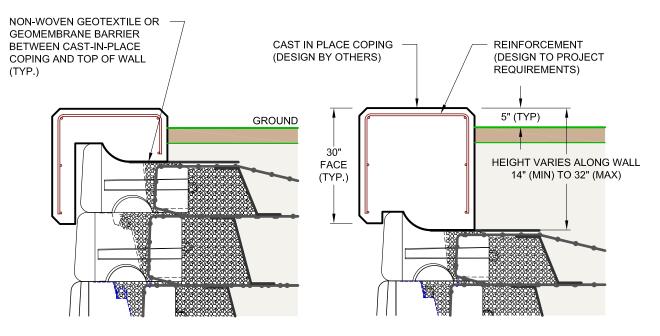
## Typical Gravity Wall Section with Freestanding Hollow Core Coping



DRAWN BY:	NWL	TITLE:
APPROVED BY:	JRJ	Typical Gravity Wall Detail
DATE:	31MAY2018	
SHEET:	1 of 1	Typical-Gravity-Wall-with-F-HC-Section.dwg



## **CAST-IN-PLACE COPING**

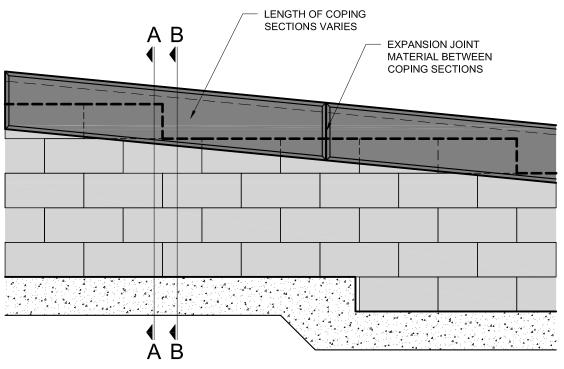


## **SECTION A-A**

(JUST BEFORE STEP DOWN ON TOP OF WALL)

## **SECTION B-B**

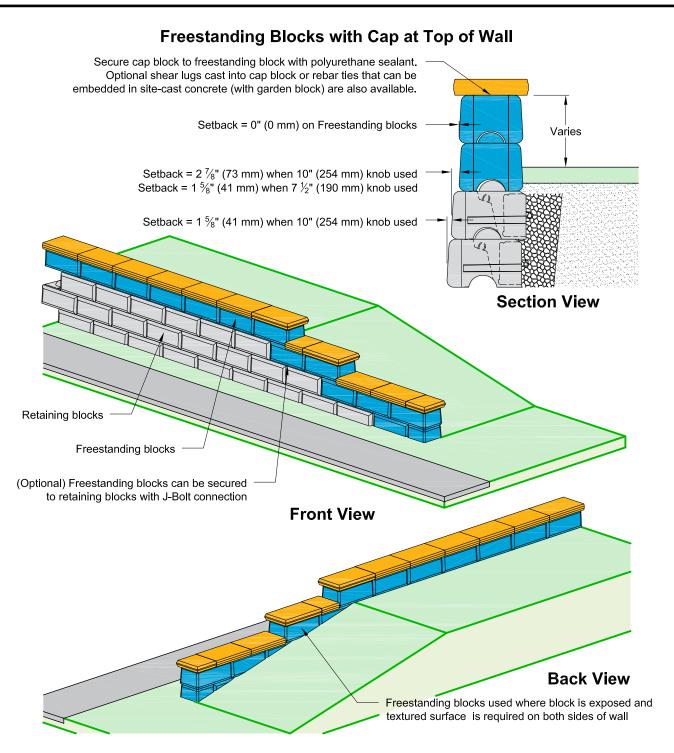
(JUST AFTER STEP DOWN ON TOP OF WALL)



**ELEVATION VIEW** 

DRAWN BY:	JRJ	TITLE:	
APPROVED BY:	JRJ		Cast-In-Place Wall Coping
DATE:	06-22-2015		
SHEET:	1 of 1	FILE:	11 Cast-In-Place Wall Coping 062215.dwg





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.

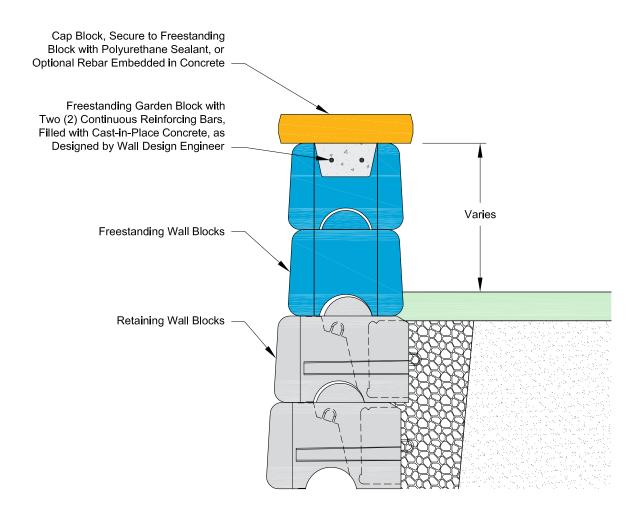
This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer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

DIAWIT DT.	JRJ		Frees
APPROVED BY:	JRJ		11000
DATE:	06-22-2015		Ca
SHEET:	1 of 1	FILE:	3 Freestandin

## Freestanding Blocks with Cap at Top of Wall

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





## **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	
APPROVED BY:	JRJ	
DATE:	01-14-2016	
SHEET:	1 of 1	

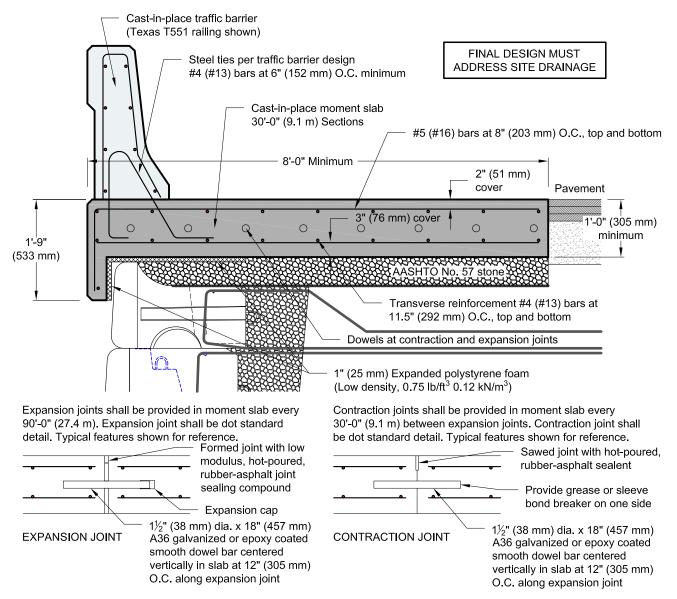
TITLE:

# Freestanding Bond Beam at Top of Wall

Freestanding Bond Beam at Top of Wall 011416.dwg



#### Cast-in-Place Moment Slab Traffic Barrier - Flat Grade Installation



#### Materials

Concrete for cast-in-place barrier and moment slab shall be dot standard structure mix. Minimum 28 day compressive strength shall be 4,000 psi (27.6 mpa) or higher as specified. Reinforcing steel shall conform to ASTM A706 or AASHTO M31 Grade 60 (420 MPa).

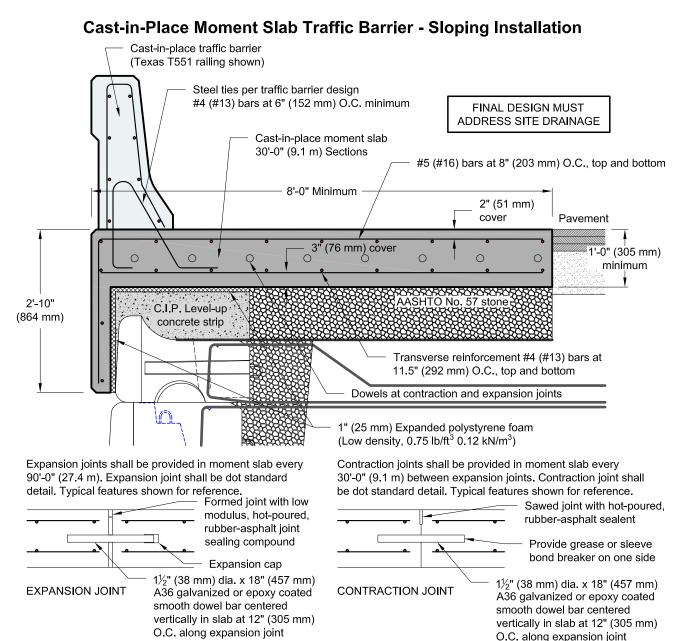
#### Design

Moment slab shown is dimensioned based on an equivalent static load of 10,000 lbs (44.5 kN) per NCHRP Report 663. Moment slab reinforcement shown is based on <u>AASHTO LRFD Bridge Design Specifications</u>, <u>5th edition</u>, <u>2010</u>, **TL-4** loading detailed in Table A13.2.1.

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the registered professional engineer in charge of the project.

DRAWN BY:	JRJ	Cast-In-Place Moment Slab
APPROVED BY:	JRJ	
DATE:	06-22-2015	Traffic Barrier - Flat Grade
SHEET:	1 of 1	FILE: 9 Cast-In-Place Moment Slab Traffic Barrier - Flat 062215.dwg





#### Materials

Concrete for cast-in-place barrier and moment slab shall be dot standard structure mix. Minimum 28 day compressive strength shall be 4,000 psi (27.6 mpa) or higher as specified. Cast-In-Place level up concrete shall be manufactured in accordance with ASTM C94. Minimum 28 day compressive strength shall be 3,500 psi (24.1 MPa) or higher as specified. Reinforcing steel shall conform to ASTM A706 or AASHTO M31 Grade 60 (420 MPa).

#### Design

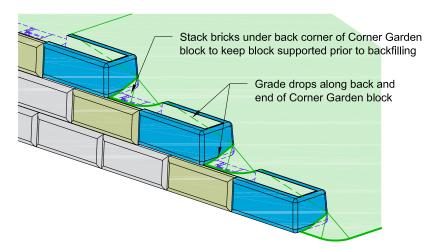
Moment slab shown is dimensioned based on an equivalent static load of 10,000 lbs (44.5 kN) per NCHRP Report 663. Moment slab reinforcement shown is based on <u>AASHTO LRFD Bridge Design Specifications</u>, <u>5th edition</u>, <u>2010</u>, **TL-4** loading detailed in Table A13.2.1.

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the registered professional engineer in charge of the project.

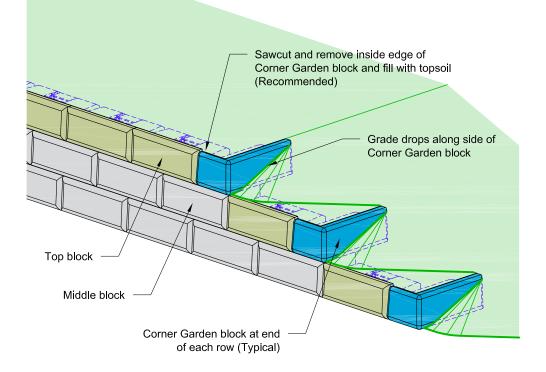
DRAWN BY:	JRJ	TITLE:	Cast-In-Place Moment Slab
APPROVED BY:	JRJ		
DATE:	06-22-2015		Traffic Barrier - Sloping Grade
SHEET:	1 of 1	FILE:	10 CIP Moment Slab Traffic Barrier - Sloping 062215.dwg



## **Top of Wall Step Options**

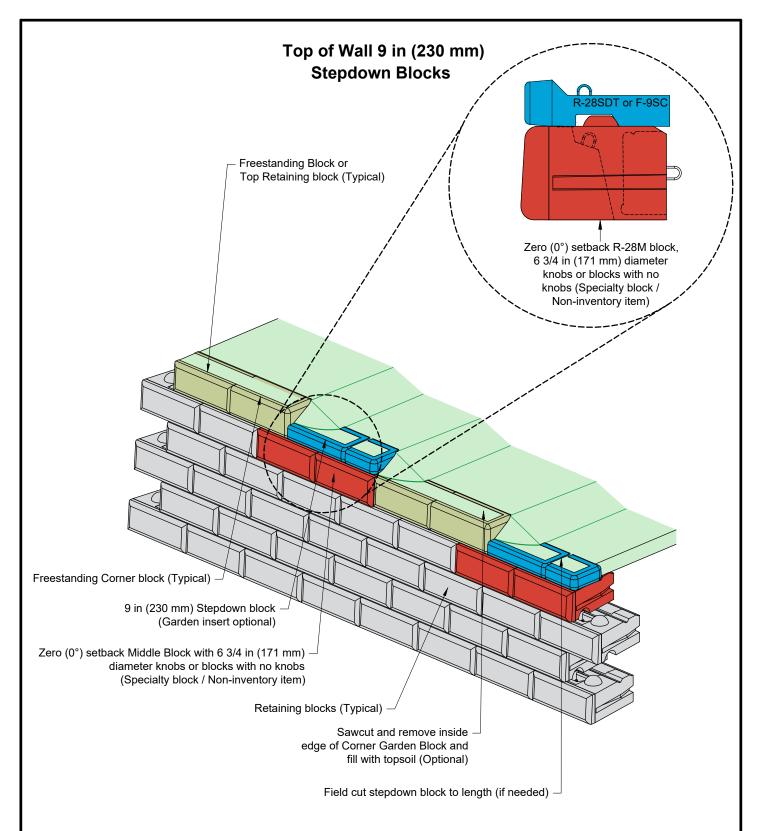


#### **Alternate Garden Block Placement**



DRAWN BY:	JRJ	TITLE:
APPROVED BY:	JRJ	Top of Wall Step Options
DATE:	06-22-2015	' '
SHEET:	1 of 1	FILE: 1 Top of Wall Step Options 062215.dwg





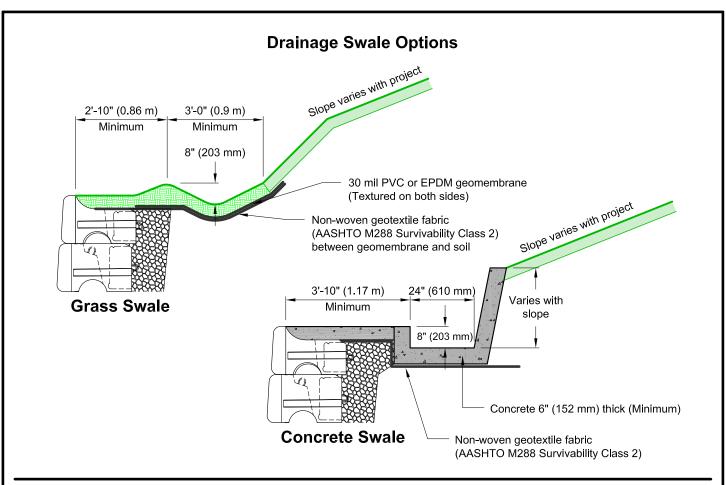
This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer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

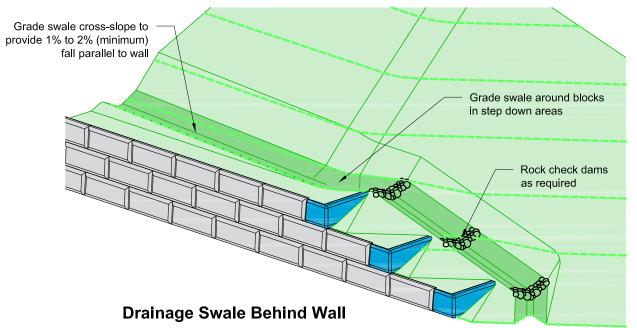
DRAWN BY:	EGS	TITLE:
APPROVED BY:	LBH	
DATE:	23-APR-2025	
SHEET:	1 of 1	FILE:

Top of Wall, 9 in Stepdown Blocks

Top of Wall 9 in Stepdown Blocks 23APR2025.dwg







	JRJ	TITLE:	
APPROVED BY:	JRJ	Drainage Swale Options	
DATE:	06-22-2015		
SHEET:	1 of 1	FILE: 4 Drainage Swale Options 062215.dwg	

