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# WAITSFIELD BRF 013-4(39)

## WAITSFIELD, VERMONT

### GENERAL NOTES:

**DESIGN PROVISIONS:**

- THE FOLLOWING EFFECTIVE STRENGTH PARAMETERS WERE ASSUMED IN THE PREPARATION OF THE STRUCTURAL CALCULATIONS FOR THE RECON RETAINING WALL SYSTEM:

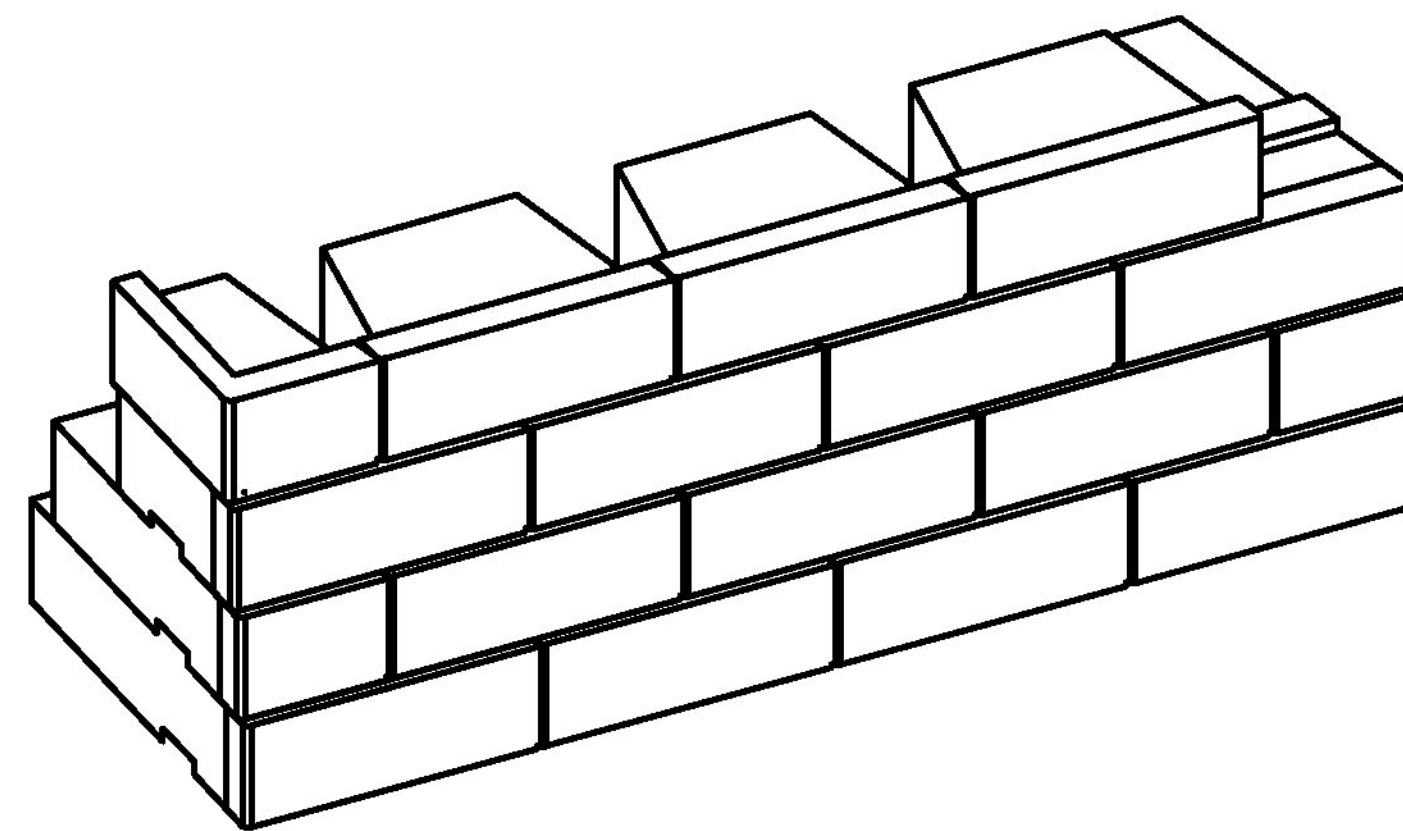
	$\phi$	c	$\gamma$	SOIL TYPE
RETAINED SOIL	34°	0 PSF	140 PCF	SELECT GRANULAR
FOUNDATION SOIL	38°	0 PSF	130 PCF	CLAYEY GRAVEL & SAND

SOILS INFORMATION OBTAINED FROM THE CONTRACT PLANS PREPARED BY MCFARLAND JOHNSON LAST DATED AUGUST 24, 2015. FOUNDATION SOILS SHALL BE EVALUATED BY A GEOTECHNICAL ENGINEER OR OWNERS REPRESENTATIVE TO ENSURE THAT THE BEARING SOILS MEET OR EXCEED THE DESIGN CONDITIONS OR ASSUMPTIONS.

- THE WALLS ARE DESIGNED TO MEET THE FOLLOWING DESIGN PARAMETERS AND MAXIMUM SURCHARGE LOADINGS:

UNIT TYPE: RECON SERIES 50: 24", 39", 60", AND 72" UNITS  
 FACE TEXTURE: NORTH SHORE GRANITE  
 BATTER: 3.6°  
 DESIGN METHOD: AASHTO LRFD  
 LIVE LOAD: 250 PSF  
 DEAD LOAD: 0 PSF  
 TOE SLOPE: 2H:1V  
 BACK SLOPE: 1.5H:1V  
 SEISMIC: NONE  
 HYDROSTATIC: N/A (DRAINAGE PROVIDED)

- THE FOUNDATION SOILS AT THE WALL LOCATIONS SHALL BE CAPABLE OF SAFELY SUPPORTING THE MAXIMUM APPLIED BEARING PRESSURE AS SHOWN ON THE WALL PROFILES WITHOUT FAILURE OR EXCESSIVE SETTLEMENT. LOCAL BEARING CAPACITY SHALL BE CONFIRMED BY THE SITE GEOTECHNICAL ENGINEER AFTER FOUNDATION EXCAVATION AND PRIOR TO WALL CONSTRUCTION.



### SHEET INDEX

SHEET	DESCRIPTION
1.00	TITLE SHEET
2.00	SITE PLAN
3.00	SPECIFICATIONS
4.00	TYPICAL UNIT DETAILS
5.00	WALL SECTIONS
6.00	WALL 1 ELEVATION
6.01	WALL 2 ELEVATION

### GENERAL NOTES:

**SUGGESTED QUALITY ASSURANCE PROVISIONS:**

- MULTIPLE CONTRACTORS (FENCE, WALL, GRADING, ETC.) MAY BE USED TO COMPLETE THE OVERALL PROJECT AS SHOWN ON THESE SHOP DRAWINGS. PLANS DO NOT DEFINE SCOPE OF WORK FOR INDIVIDUAL ENTITIES. SEE CONTRACT DOCUMENTS FOR SPECIFIC DETAILS ON THE SCOPE OF WORK THAT WILL BE PROVIDED BY ALL PARTIES.
- WALL CONSTRUCTION SHALL BE SUPERVISED BY A QUALIFIED ENGINEER OR TECHNICIAN TO VERIFY FIELD AND SITE SOIL CONDITIONS. IF THIS WORK IS NOT PERFORMED BY THE SITE GEOTECHNICAL ENGINEER, A QUALIFIED GEOTECHNICAL ENGINEER/TECHNICIAN SHALL BE CONSULTED IN THOSE MATTERS PERTAINING TO THE SOIL CONDITIONS AND WALL PERFORMANCE.
- THE FOUNDATION SOILS AT THE BASE OF THE WALL(S) SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER. ANY UNSUITABLE SOILS OR IMPROPERLY COMPACTED EMBANKMENT MATERIAL SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER PRIOR TO WALL CONSTRUCTION TO PROVIDE ADEQUATE BEARING CAPACITY AND MINIMIZE SETTLEMENT.
- ALL WALL EXCAVATION AND RETAINED SOILS SHALL BE INSPECTED FOR GROUNDWATER CONDITIONS. ANY ADDITIONAL DRAINAGE PROVISIONS REQUIRED IN THE FIELD SHALL BE INCORPORATED INTO THE WALL CONSTRUCTION AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- WALL BACKFILL MATERIAL SHALL BE TESTED AND APPROVED BY THE ENGINEER, MEETING THE MINIMUM REQUIREMENTS OF THE APPROVED DESIGN PLANS OR SPECIFICATIONS.
- ALL SOIL BACKFILL SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER FOR MOISTURE, DENSITY, AND COMPACTION PERIODICALLY (EVERY 2' VERTICALLY, 100'-200' C/C) MEETING THE MINIMUM REQUIREMENTS OF THE APPROVED DESIGN PLANS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN QUALITY CONTROL FOR THE CONSTRUCTION OF THE WALL TO ASSURE COMPLIANCE WITH CONTRACT REQUIREMENTS AND MAINTAIN RECORDS OF ITS QUALITY CONTROL.
- ALL WALL ELEVATIONS, GRADES, AND BACK SLOPE CONDITIONS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD FOR CONFORMANCE WITH APPROVED DESIGN PLANS. ANY REVISIONS TO THE STRUCTURE, GEOMETRY OR DESIGN CRITERIA SHALL REQUIRE DESIGN MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

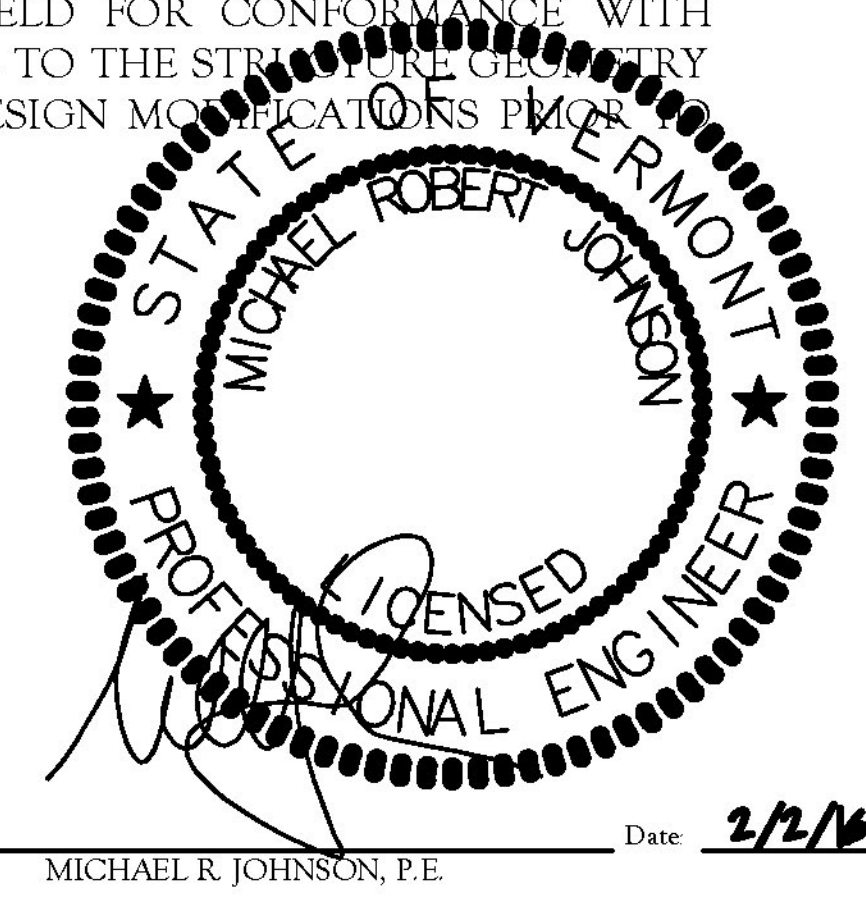
Approved  
 Approved As Noted  
 Rejected

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during the review do not relieve the Contractor from compliance with the requirements of the Plans and Specifications. Review of a specific item shall not include review of an assembly of which an item is a component. The Contractor is responsible for dimensions to be confirmed and corrected at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of other trades and performing all Work in a safe and satisfactory manner.

**Vermont Agency of Transportation**  
**RECEIVED**  
**ON: February 24, 2016**  
**and Checked for CONFORMANCE**  
**BY: Rob Young DATE: 03/22/2016**

Date: 3/22/2016  
 By: D. Kull

**McFarland Johnson**



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No	Date	Revision	By
1	2 02 2016	REVISE BLOCK AND QUANTITIES	TPH
2			
3			
4			
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Designed By	TPH	Project	Registration No.
Scale	N.T.S.	WAITSFIELD BRF 013-4(39) WAITSFIELD, VERMONT	8619
Date	JAN 28, 2016	Title	Project No.
		TITLE SHEET	15-0789
			Sheet No.
			1.00

MICHAEL R. JOHNSON, P.E.      Date: 2/2/16