POULTNEY BRIDGE REPLACEMENT
POULTNEY, VERMONT

Approved

BY:	R. Young
DATE:	3/13/19
RESUBMIT:	No
RECEIVED:	March 12, 2019
CKD BY:	G. Laroche/G. Dargan

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GENERAL NOTES:

QUALITY ASSURANCE PROVISIONS:

1. 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.

2. 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.

3. THE FOUNDATION SOILS AT THE BASE OF THE WALLS 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.

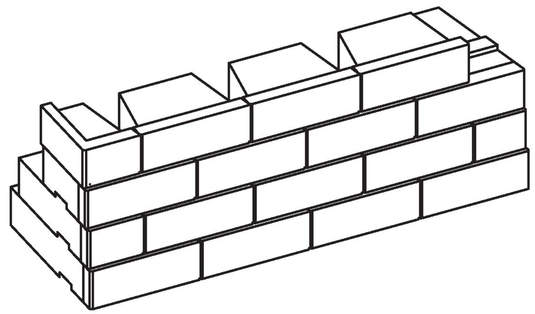
4. ALL WALL EXCAVATION AND RETAINED SOILS SHALL BE INSPECTED FOR GROUNDWATER CONDITIONS. ANY ADDITIONAL DRAINAGE PROVISIONS REQUIRED IN THE FIELD SHALL BE INCORPORATED INTO THE WALL CONSTRUCTION AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

5. WALL BACKFILL MATERIAL SHALL BE TESTED AND APPROVED BY THE ENGINEER, MEETING THE MINIMUM REQUIREMENTS OF THE APPROVED DESIGN PLANS OR SPECIFICATIONS.

6. 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.

7. 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.

8. 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.



SHEET INDEX

GENERAL NOTES:

DESIGN PROVISIONS:

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

UNIT TYPE:	RECON SERIES 50
BATTER:	0.0° (NEAR VERTICAL)
REINFORCEMENT:	STRATA SG350
DESIGN METHOD:	AASHTO LRFD
LIVE LOAD:	250 PSF
DEAD LOAD:	NONE
TOE SLOPE:	AS SHOWN ON THE SITE PLAN
BACK SLOPE:	AS SHOWN ON THE SITE PLAN
SEISMIC:	NONE
HYDROSTATIC:	N/A (DRAINAGE PROVIDED)

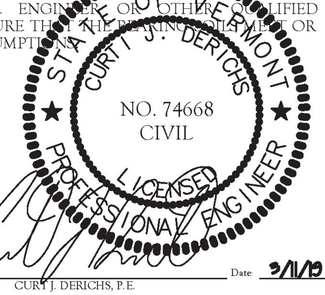
(SEE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR LOAD FACTORS)

2. 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.

3. THE FOLLOWING EFFECTIVE STRENGTH PARAMETERS WERE USED IN THE PREPARATION OF THE STRUCTURAL CALCULATIONS FOR THE RECON RETAINING WALL SYSTEM:

	ϕ	c	γ	SOIL TYPE
REINFORCED SOIL (WALLS 1 AND 2)	34°	0 PSF	140 PCF	GRANULAR BACKFILL FOR STRUCTURES
REINFORCED SOIL (WALLS 3 AND 4)	40°	0 PSF	60 PCF	LIGHTWEIGHT BACKFILL
RETAINED SOIL (WALLS 1 AND 2)	32°	0 PSF	130 PCF	GRANULAR BORROW
RETAINED SOIL (WALLS 3 AND 4)	40°	0 PSF	60 PCF	LIGHTWEIGHT BACKFILL
FOUNDATION SOIL (WALLS 1 AND 2)	27°	0 PSF	160 PCF	BEDROCK
FOUNDATION SOIL (WALLS 3 AND 4)	34°	0 PSF	140 PCF	SANDY GRAVEL / SILTY SAND
LEVELING PAD	40°	0 PSF	120 PCF	AGGREGATE

4. SOILS INFORMATION OBTAINED FROM THE GEOTECHNICAL DATA REPORT PREPARED BY VTRANS LAST DATED JUNE 30, 2016. THE FOUNDATION SOILS SHALL BE EVALUATED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED REPRESENTATIVE OF THE OWNER TO ENSURE THAT THE BEARING STRATUM MEET OR EXCEED THE DESIGN CONDITIONS OR ASSUMPTIONS.



CURT J. DERICHS, P.E. Date: 3/11/19

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No	Date	Revision	By
1	03.05.2019	REVIEW COMMENTS	TPH
2	03.11.2019	REVIEW COMMENTS	TPH
3			
4			
5			
6			

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