

WOODBURN  
& COMPANY

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# Madbury Commons Small Bridge sk- Elevation

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2014-01-29



1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE SITE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. THIS INCLUDES DISCREPANCIES BETWEEN THESE PLANS AND ANY OTHER PLANS OR CONTRACT DOCUMENTS.

3. WHERE DIMENSIONS ARE NOT SHOWN ON THESE PLANS, THE DIMENSIONS SHOWN ON OTHER RELEVANT PLANS SHALL BE USED.

4. SHOP DRAWINGS FOR ALL FABRICATED MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

5. ALL WORK SHALL BE PERFORMED BY QUALIFIED PERSONS PROPERLY LICENSED AS REQUIRED BY THE STATE.

THIS STRUCTURE IS DESIGN IN ACCORDANCE TO THE INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION TO CARRY ALL DEAD LOAD AND THE FOLLOWING MINIMUM LIVE LOADS:

WALKWAY &amp; ELEVATED PLATFORMS 60 PSF

BASIC GROUND SNOW LOAD

GROUND SNOW LOAD,  $P_g = 50$  PSF  
 $C_e = 1.0$

$$C_A = 1.2$$

CC 1.2

WIND LOAD

INTERNAL PRESSURE COEFFICIENT =  $\pm 0.18$

SEISMIC

Site Class C, Design Category  
 $S_s = .3665$ ,  $S_{ms} = .440$

$$SI = .0606, SMI = .137$$

SOIL BEARING

1. ALL WORK AND MATERIALS FOR

2. THE ENGINEER SHALL INSPECT THE SOILS AFTER ALL FOUNDATION EXCAVATION HAS BEEN COMPLETED AND PRIOR TO PLACING ANY FORMWORK OR CONCRETE. IN THE CASE THAT THE SOIL IS NOT CONSIDERED SUITABLE, A GEOTECHNICAL ENGINEER SHALL INSPECT THE SOILS. IN NO CASE SHALL THE FOUNDATION CONSTRUCTION PROCEED WITHOUT THE ENGINEER'S APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THIS INSPECTION.

3. THE DESIGN SOIL BEARING CAPACITY IS 2,000 PSF BASED ON THE ENGINEER'S ASSESSMENT. AFTER EXCAVATION AND PRIOR TO CONSTRUCTING THE FOOTINGS, THE FULL WIDTH OF THE TRENCH SHALL BE SMOOTHED TO OBTAIN A UNIFORM SURFACE TO PLACE FORMS. ALL SUBGRADE PREPARATIONS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

4. ALL UNSUITABLE MATERIAL INCLUDING BUT NOT LIMITED TO TOPSOIL, ORGANIC LADEN SOIL, FILL, ABANDON FOUNDATIONS, INTERSECTING UTILITIES, ETC. SHALL BE REMOVED PRIOR TO PLACING ANY FILL OR FOOTINGS. SUBGRADE UNDER THE SLAB SHALL ALSO BE COMPACTED WITH A VIBRATORY COMPACTOR PRIOR TO PLACING FILL.

5. ANY SOIL CONDITIONS, WORSE THAN THE DESIGN CONDITION, ENCOUNTERED DURING THE CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK.

6. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND. ALL EXTERIOR WALLS SHALL HAVE A MINIMUM OF 4" OF COVER FROM THE OUTSIDE FINISH GRADE TO BOTTOM OF FOOTING. IF THIS IS NOT POSSIBLE THEN INSULATION SHALL BE PROVIDED ON THE EXTERIOR OF THE FOUNDATION WALLS. THIS IS SHOWN ON THE FOUNDATION SECTIONS LOCATED IN THE AFFECTED AREAS.

7. FOUNDATION BACKFILL MATERIAL SHALL BE STRUCTURAL FILL.

8. ALL UNSUPPORTED SOIL EXCAVATIONS SHALL BE CUT TO A SLOPE OF 1.5 HORIZONTAL TO 1 VERTICAL (OR FLATTER). ALL EXCAVATION WORK SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS, AND IT SHALL BE THE

RECOMMENDED SOIL GRADATION AND COMPACTION SPECIFICATIONS

CLEAN GRANULAR FILL	% PASSING BY WEIGHT
SEV. SIZE	
3 INCH	100
2 1/2 INCH	100

ALL CLEAN GRANULAR FILL OR STRUCTURAL FILL

MAXIMUM DRY DENSITY: \_\_\_\_\_

1. REFER TO SHEET C12 FOR CAST IN PLACE CONCRETE REQUIREMENTS

STRUCTURAL STEEL

1. THE DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE COMPLETED IN ACCORDANCE

2. THE FOLLOWING MATERIALS AND STEEL GRADES SHALL BE USED FOR THIS PROJECT (UNLESS NOTED OTHERWISE)

MATERIAL TYPE  
W FLANGE STEEL  
CHANNELS & PLATES  
FIELD BOLTS  
WELD ELECTRODES

3. ALL BOLTED CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". ALL BOLTS SHALL BE TIGHTENED TO THE PROPER TIGHTENING TORQUE AND SHALL BE NEW BOLTS.

4. ALL BASE PLATES SHALL BE SHIMMED LEVEL. VOIDS SHALL BE FILLED WITH NON-SHRINK GROUT PRIOR TO APPLYING LOADS.

6. NO PREFABRICATED STRUCTURAL STEEL SHALL BE MODIFIED OR CUT WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD.

7. ALL STRUCTURAL STEEL SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION.

8. ALL STRUCTURAL STEEL SHALL BE PLUMB AND SQUARE PRIOR TO WELDING OR BOLTING CONNECTIONS.

10. ALL STRUCTURAL STEEL SHALL HAVE ONE COAT OF RUST INHIBITOR PRIMER. ADDITIONAL FINISHING MAY BE REQUIRED FOR EXPOSED STEEL.

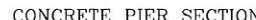
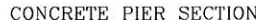
11. THE STEEL FABRICATOR SHALL BE AISC CERTIFIED. ALL WELDING SHALL BE DONE BY AISC CERTIFIED WELDER.


12. THE TESTING AGENCY SHALL PROVIDE VISUAL INSPECTION OF ALL SHOP AND FIELD WELDS. SEE SPECIAL

PRESSURE TREATED LUMBER

3. ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED AND ALL POWER ACTUATED FASTENERS SHALL BE CORROSION RESISTANT TO FASTEN PT PLATES TO CONCRETE. HOT DIPPED GALVANIZED NAILS SHALL BE USED.

FOR FRAMING CONNECTIONS WITH PL



 <p><b>MJS ENGINEERING, PC</b>          5 EXETER ST., 4TH FLOOR, 205          BOSTON, MA 02114-2909          Phone: (617) 552-0100 Fax: (608) 552-0427          E-mail: mjs@engr-mjs.com          CONSULTING ENGINEERS</p>	<p><b>PROPOSED BRIDGE #2 PLAN</b>          prepared for  <b>MADBURY COMMONS</b>          17 &amp; 21 MADBURY ROAD DURIAM, NH</p>		<p>DATE: 06/25/14          SCALE: SEE PLAN          DESIGNED BY: E.J.L.          DRAWN BY: E.J.L.          APPROVED BY: M.J.S.          FILE: 13-007-STRUCT.dwg</p>		<p>1. ISSUE FOR CONSTRUCTION</p>	<p>6/25/14</p>
	<p>SEAL</p>		<p>NO.</p>		<p>REVISIONS</p>	<p>DATE</p>
	<p>NO.</p>		<p>NO.</p>		<p>INT.</p>	<p>DATE</p>
	<p>NO.</p>		<p>NO.</p>		<p>INT.</p>	<p>DATE</p>
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