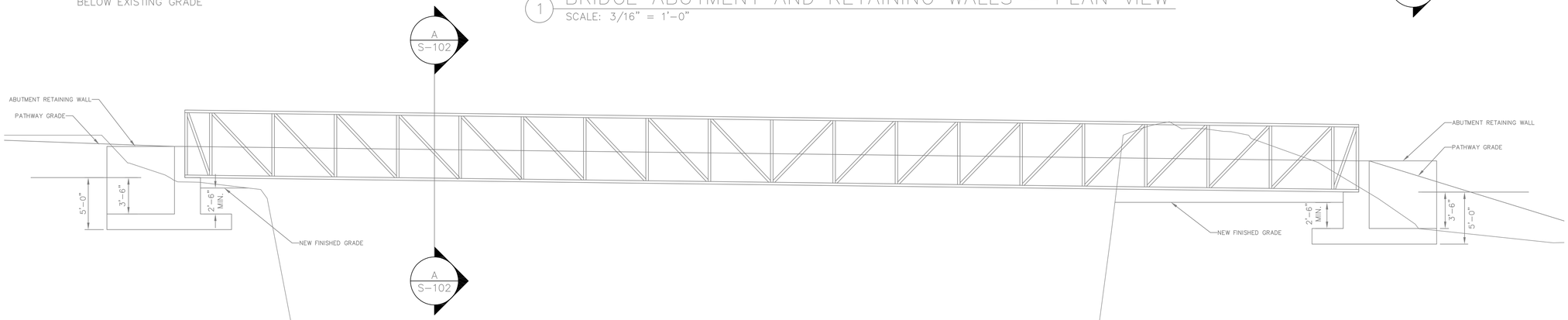
NOTE: BOTTOM OF ABUTMENT FOOTING TO MATCH BOTTOM OF EXISTING BUILDING FOOTING. IT IS ASSUMED BOTTOM OF EXISTING BUILDING FOOTING IS 48" (+/-) BELOW EXISTING GRADE

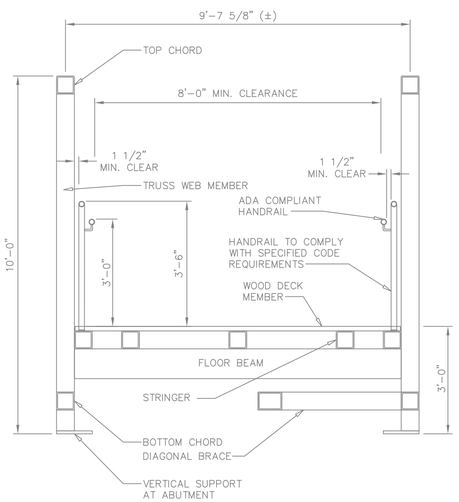
1 BRIDGE ABUTMENT AND RETAINING WALLS – PLAN VIEW

SCALE: 3/16" = 1'-0"



2 BRIDGE ABUTMENT – ELEVATION 3

SCALE: 3/16" = 1'-0"



A BRIDGE SECTION

SCALE: 1/2" = 1'-0"

PREFABRICATED PEDESTRIAN BRIDGE NOTES:

1. THE PREFABRICATED PEDESTRIAN BRIDGE CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND MATERIALS ASSOCIATED WITH THE PREFABRICATED PEDESTRIAN BRIDGE INCLUDING BUT NOT LIMITED TO THE ENGINEERING ASSOCIATED WITH THE BRIDGE, THE SHOP FABRICATION OF THE BRIDGE, THE INSTALLATION OF THE BRIDGE, THE TRANSPORTATION OF THE BRIDGE FROM THE SHOP TO THE SITE, ALL PERMITTING ASSOCIATED WITH THE BRIDGE, AND OTHER ITEMS NOT SPECIFICALLY SHOWN ON THE BRIDGE DRAWINGS BUT REFERENCED AS TYPICAL FOR THE PROJECT ON OTHER DRAWINGS. IT IS ANTICIPATED THE TRUSS MEMBERS WILL BE STRUCTURAL STEEL AND THE BRIDGE DECK WILL BE PRESSURE TREATED WOOD.

2. ACCEPTABLE PREFABRICATED BRIDGE SUPPLIERS ARE BIG R BRIDGE, CONTECH ENGINEERED SOLUTIONS, AND EXCEL BRIDGE MANUFACTURING COMPANY. OTHER SUPPLIERS ARE ACCEPTABLE IF THEY MEET THE FOLLOWING CRITERIA:
   A. A MINIMUM OF FIVE YEARS OF EXPERIENCE ENGINEERING AND FABRICATING SIMILAR BRIDGES
   B. A MINIMUM OF FIVE SUCCESSFUL SIMILAR BRIDGES COMPLETED WITHIN THE LAST FIVE YEARS. THESE PROJECTS SHALL HAVE BEEN COMPLETED WITHIN THE LAST THREE YEARS.

   THE BRIDGE CONTRACTOR SHALL SUPPLY DOCUMENTATION FOR REVIEW BY THE OWNER RELATIVE TO THE SUPPLIER'S EXPERIENCE THAT LISTS AT LEAST FIVE PROJECTS COMPLETED WITHIN THE LAST FIVE YEARS. THE DOCUMENTATION SHALL INCLUDE THE PROJECT NAME, THE LENGTH OF THE BRIDGE, THE TYPE OF BRIDGE, AND THE PROJECT OWNER'S REPRESENTATIVE CONTACT INFORMATION.

3. THE ABUTMENTS SHOWN ON THE DRAWINGS ARE BASED ON AVAILABLE PRODUCT DATA. THE FINAL ABUTMENT DIMENSIONS MAY REQUIRE ADJUSTMENT DEPENDING ON THE CONTRACTED PREFABRICATED BRIDGE SUPPLIER'S REQUIREMENTS. ANY ADJUSTMENTS TO THE ABUTMENT DIMENSIONS REQUIRED BY THE PREFABRICATED BRIDGE SUPPLIER SHALL BE CONVEYED TO THE ENGINEER OF RECORD WITHIN SEVEN BUSINESS DAYS OF CONTRACT AWARD. THE ENGINEER OF RECORD WILL REVISE THE ABUTMENT DRAWINGS AS REQUIRED BY THE BRIDGE SUPPLIER WITHIN SEVEN BUSINESS DAYS AFTER RECEIPT OF THE REQUEST.

4. THE PREFABRICATED BRIDGE CONTRACTOR SHALL REVIEW ALL DRAWINGS ASSOCIATED WITH THE WORK. ANY DISCREPANCIES WITH THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF ALL PARTIES INVOLVED.

5. THE BRIDGE TRUSSES SHALL BE PRATT TYPE. IN ADDITION THE BRIDGE SHALL BE "H" TYPE PONY TRUSS.

6. ADDITIONAL PREFABRICATED BRIDGE DESIGN PARAMETERS ARE AS FOLLOWS:
A. THE BRIDGE DECK SHALL CONSIST OF WOOD PLANKS. SEE THE WOOD NOTES FOR ADDITIONAL INFORMATION
B. THE BRIDGE SHALL BE HOT DIPPED GALVANIZED OR PAINTED WITH THREE COATS OF RUST INHIBITIVE PAINT. FINISH COLORS SHALL BE PRESENTED TO THE OWNER PRIOR TO BRIDGE FABRICATION. THE OWNER WILL MAKE THE FINAL DECISION REGARDING COLOR SELECTION. ANY FINISH DEFICIENCIES SHALL BE TOUCHED UP BY THE BRIDGE CONTRACTOR AT NO COST TO THE OWNER. THE OWNER AND THE ENGINEER SHALL OBSERVE THE BRIDGE BEFORE AND AFTER THE FINISH HAS BEEN TOUCHED UP. THE BRIDGE FINISH WILL BE DEEMED ACCEPTABLE WHEN BOTH THE ENGINEER AND THE OWNER NOTIFY THE BRIDGE CONTRACTOR IN WRITING STATING THE FINISH IS ACCEPTABLE.
C. THE RAILING SYSTEM SHOWN ON THE DRAWINGS IS BASED ON CURRENT BUILDING CODE REQUIREMENTS FOR EGRESS AND ADA REQUIREMENTS. STANDARD PREFABRICATED BRIDGE RAILING IS ACCEPTABLE IF THE ADA AND BUILDING CODE REQUIREMENTS CAN BE MET. IN ADDITION THE RAILS MUST BE ACCEPTABLE TO THE OWNER. A MINIMUM OF 8'-0"HORIZONTAL CLEARANCE IS REQUIRED.
D. THE DECK SHALL BE CAMBERED TO MEET THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING BUT SHALL NOT EXCEED ADA REQUIREMENTS:
   1. DEFLECTION AT MIDSPAN DUE TO 150% OF THE BRIDGE DEAD LOAD.
   2. 1/360TH OF BRIDGE SPAN.

7. ANY ITEMS THAT REQUIRE EMBEDMENT INTO THE CONCRETE ABUTMENT SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE BROUGHT TO THE ATTENTION OF THE INSTALLER AND GENERAL CONTRACTOR.

8. THE PREFABRICATED BRIDGE SUPPLIER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW. THE DRAWINGS AND THE CALCULATIONS SHALL BEAR THE SIGNATURE AND SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS.

NOTE: WORK ON THIS SHEET UNDER SEPARATE CONTRACT

REV	DESCRIPTION	DRN	CHK	DATE (M/D/Y)
2	REVISE CONTRACT STATIONING			4/28/2014
1	MINOR REVISIONS			2/6/2014

VERIFY SCALE IF PLAN SHEET IS REDUCED

DRW BY: –
DES BY: –
CHK BY: –
APP BY: –

TLH CONSULTING, LLC
505 MIDDLESEX TPK #14, BILLERICA, MA 01821
(978) 362-1804

GREATER LOWELL ENGINEERING ASSOCIATES, LLC
ARCHITECTS • LAND SURVEYORS • CIVIL ENGINEERS
219 JACKSON STREET • STUDIO 114
LOWELL, MA 01852
978-604-5576

LOWELL, MASSACHUSETTS
LOWELL – CONCORD RIVER GREENWAY
PHASE 3A – CENTENNIAL APARTMENTS TO ROGERS ST.

DETAILS – SHEET 1 OF 2
(OTHER CONTRACT)

DRAWING NUMBER S-501

SHEET 9 OF 10

FILE NAME: C:\Greater Lowell Engineering Associates\GL 130301 – Concord River\2013-12-01_Walkway\Structural\S-501-02.dwg LAYOUT NAME: S-501 PLOTTED: Wednesday, April 30, 2014 – 12:35pm USER: Marko