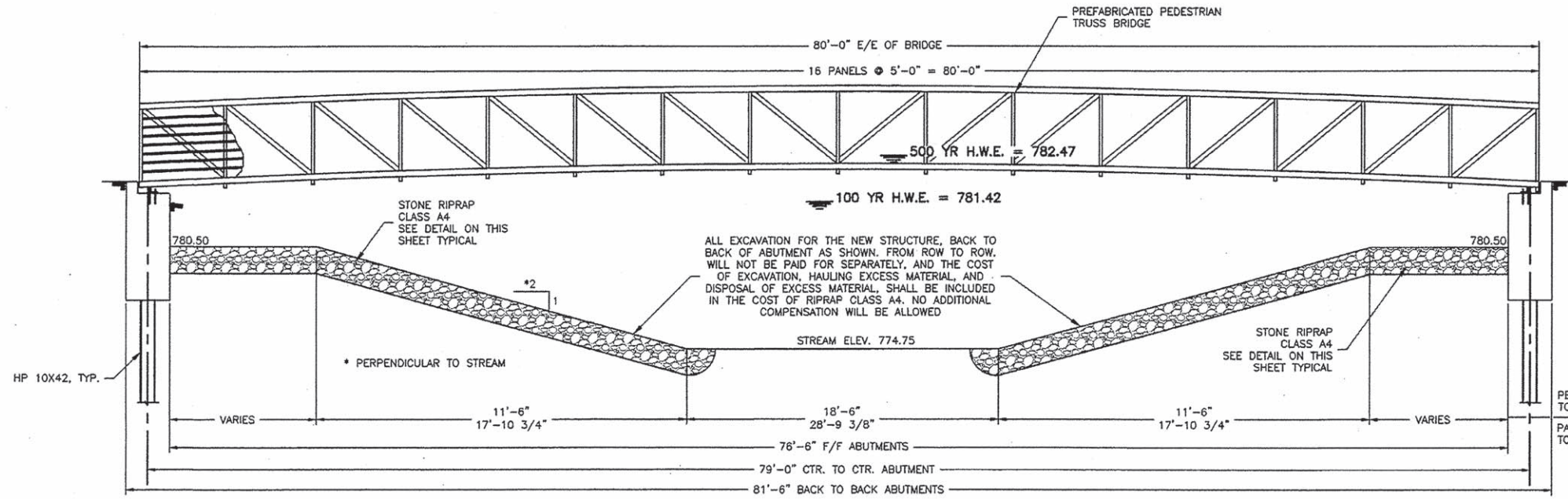
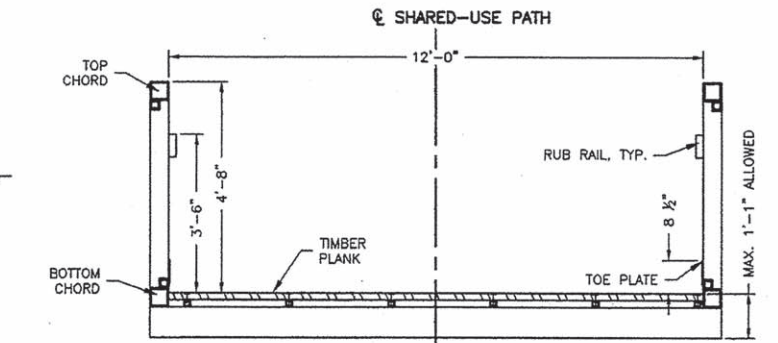


EXISTING STRUCTURE: NONE



ELEVATION - PEDESTRIAN BRIDGE
SCALE: NTS



TYPICAL SECTION

WATERWAY DATA
DRAINAGE AREA = 4.62 SQ. MI.
EXISTING OPENING = N/A SQ. MI.
PROPOSED OPENING (100 YEAR) = 214 SQ. FT.
DESIGN DISCHARGE (100 YEAR) = 770 C.F.S.
DESIGN VELOCITY (500 YEAR) = 0.79 FPS

DESIGN LOADING

90 PSF PEDESTRIAN LIVE LOAD
H5 VEHICLE W/10,000# MAX. GVW

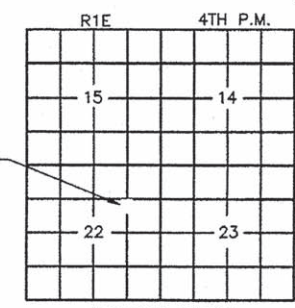
PREFABRICATED TRUSS SUPPLIER TO DESIGN TRUSS,
TRUSS BEARINGS, AND ALL CONNECTIONS, TO
WITHSTAND LATERAL FORCES FROM ICE, DEBRIS, AND
PRESSURE FLOW DUE TO 500 YEAR HIGHWATER
LEVEL OF 782.47 IN ACCORDANCE WITH 2012
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DESIGN STRESSES

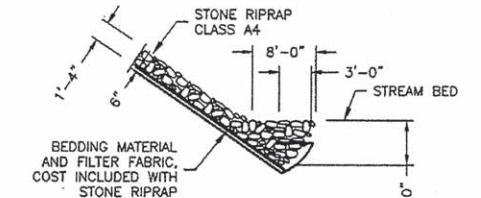
F_y = 50,000 PSI (M270 GRADE 50W)

CONCRETE
F_c = 3,500 PSI (28 DAYS)

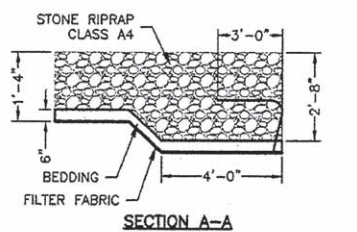
DESIGN SPECIFICATIONS
2012 ASHTO LRFD GUIDE SPECIFICATIONS
FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND
EDITION



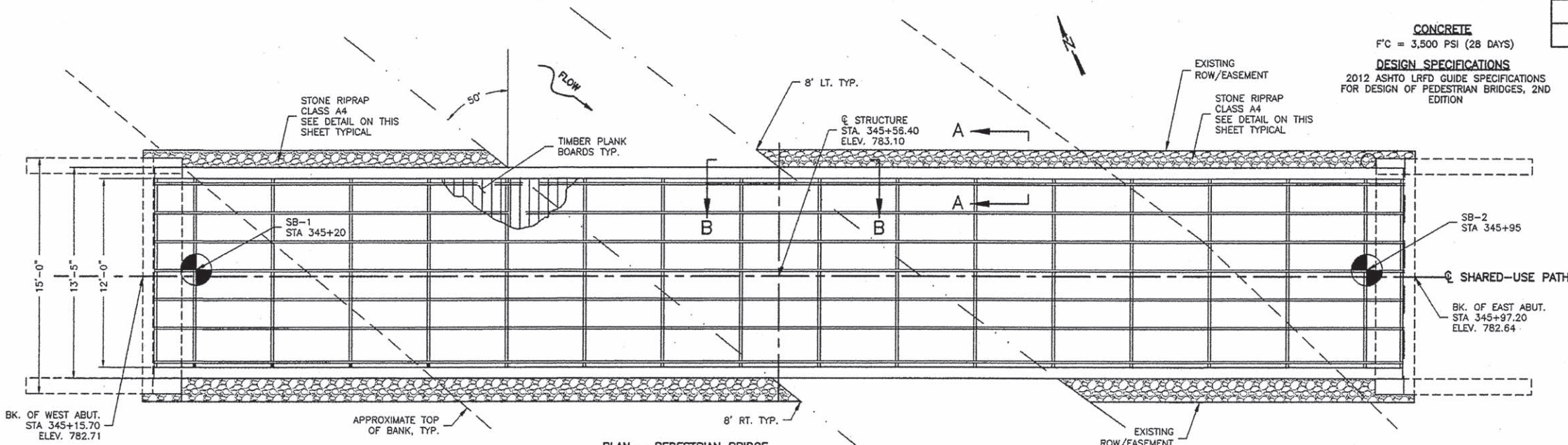
LOCATION SKETCH



SECTION B-B THRU TOE OF RIPRAP

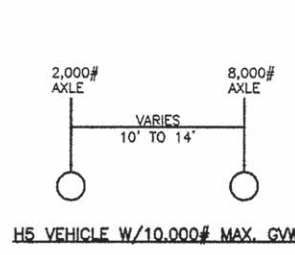


SECTION A-A



PLAN - PEDESTRIAN BRIDGE
SCALE: NTS

- GENERAL NOTES:**
- STRUCTURAL DRAWINGS TO BE WORKED WITH ANY OTHER CIVIL DRAWINGS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF STRUCTURE DURING ERECTION.
 - PEDESTRIAN TRUSS RAILING SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 13.8.
 - ALL STRUCTURAL WELDING SHALL BE DONE USING E70 ELECTRODES IN ACCORDANCE WITH THE AWS CODE AND AISC SPECIFICATIONS.
 - ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED, BOLTED OR A COMBINATION OF WELDED AND BOLTED CONNECTIONS.
 - STEEL TRUSS FABRICATOR SHALL STRICTLY ADHERE TO THE LOW BEAM, AND PROFILE GRADE OF THE STRUCTURE. THE STRUCTURE SHALL BE DESIGN FOR LATERAL FORCES TO THE STRUCTURE CAUSED BY PRESSURE FLOW, ICE, AND DEBRIS. THIS SHALL BE DESIGN IN ACCORDANCE WITH THE AASHTO 2012 LRFD BRIDGE DESIGN SPECIFICATIONS.

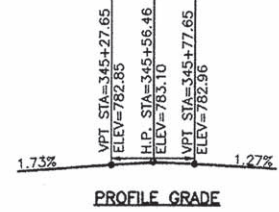


H5 VEHICLE W/10,000# MAX. GVW

VPI STA=345+52.65
ELEV=783.28
CURVE LEN=50.00
E=0.19
K=16.7

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SD1) = 0.096G
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.16G
SOIL SITE CLASS = D



PROFILE GRADE

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SUB-STRUCTURE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMIC ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

Ryan T. Mumm 7/19/2016
RYAN T. MUMM DATE
Illinois Licensed Structural Engineer Number 6577
License Expires 11/30/16



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
ILLINOIS IOWA WISCONSIN

OWNER/DEVELOPER:
FLAGG-ROCHELLE COMMUNITY
PARK DISTRICT
735 N. 2ND STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:
ROCHELLE BIKE RACC II
SECTION 13-P4000-00-BT
PROJECT TE-00D2(153)
JOB C-92-004-14

DRAWN BY: YJ
APPROVED BY: SLO
DATE: 09/30/13
SCALE: NTS

REV. NO.	DESCRIPTION	DATE
2	DESIGN MODIFICATIONS	07/19/16

DRAWING:
BRIDGE GENERAL PLAN AND ELEVATION

JOB NUMBER:
13-285
SHEET NUMBER:
49 of 54