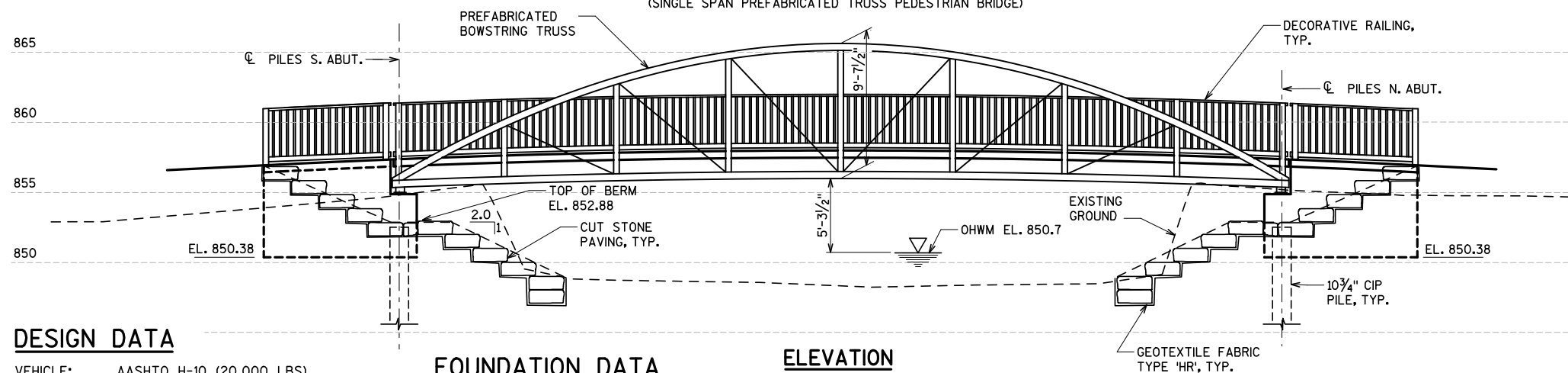


PLAN

(SINGLE SPAN PREFABRICATED TRUSS PEDESTRIAN BRIDGE)



ELEVATION

(LOOKING WEST)

DESIGN DATA

VEHICLE: AASHTO H-10 (20,000 LBS)
PEDESTRIAN: 90 PSF

ULTIMATE DESIGN STRESSES:

CONCRETE
SUBSTRUCTURES.....f'c = 3,500 psi
CONCRETE DECK.....f'c = 4,000 psi

HIGH STRENGTH BAR STEEL
REINFORCEMENT (GRADE 60).....fy = 60,000 psi

THE STEEL FOR THE PREFABRICATED STEEL TRUSS:
W SHAPES (ASTM A992).....Fy = 50,000 psi
RECTANGULAR HSS
(ASTM A500, GR. B).....Fy = 46,000 psi
CHANNELS AND ANGLES
(ASTM A36).....Fy = 36,000 psi

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10 3/4 " DIA.
CAST-IN-PLACE PIPE PILING.

REQUIRED DRIVING RESISTANCE AS DETERMINED BY
THE MODIFIED GATES DYNAMIC FORMULA IS 70 TONS
PER PILE.

THE FACTORED AXIAL RESISTANCE OF PILES IN
COMPRESSION USED FOR DESIGN IS THE REQUIRED
DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE
FACTOR OF 0.5 USING MODIFIED GATES TO
DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED PILE LNTH IS = 46 FT.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

AT THE BACKFACE OF ABUTMENT ALL VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURAL BACKFILL.

FABRICATION, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2013.

THE FINISHED GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

ALL DIMENSIONS ARE IN FEET AND INCHES, UNLESS OTHERWISE NOTED.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH CUT STONES AND GEOTEXTILE FABRIC TYPE HR TO THE EXTENT SHOWN ON THIS SHEET.

THE HARDWOOD RUBRAIL, SAFETY RAIL, AND TOE PLATE SHALL BE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE".

THE CONCRETE DECK AND COATED BAR STEEL REINFORCEMENT IN THE DECK SHALL BE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-XX-XXX".

○ WINGWALL NUMBER

NO.	DATE	REVISIONS

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GENERAL PLAN AND ELEVATION
CITY OF MADISON

PROJECT NO. BM6-1017
SHEET NO. 01