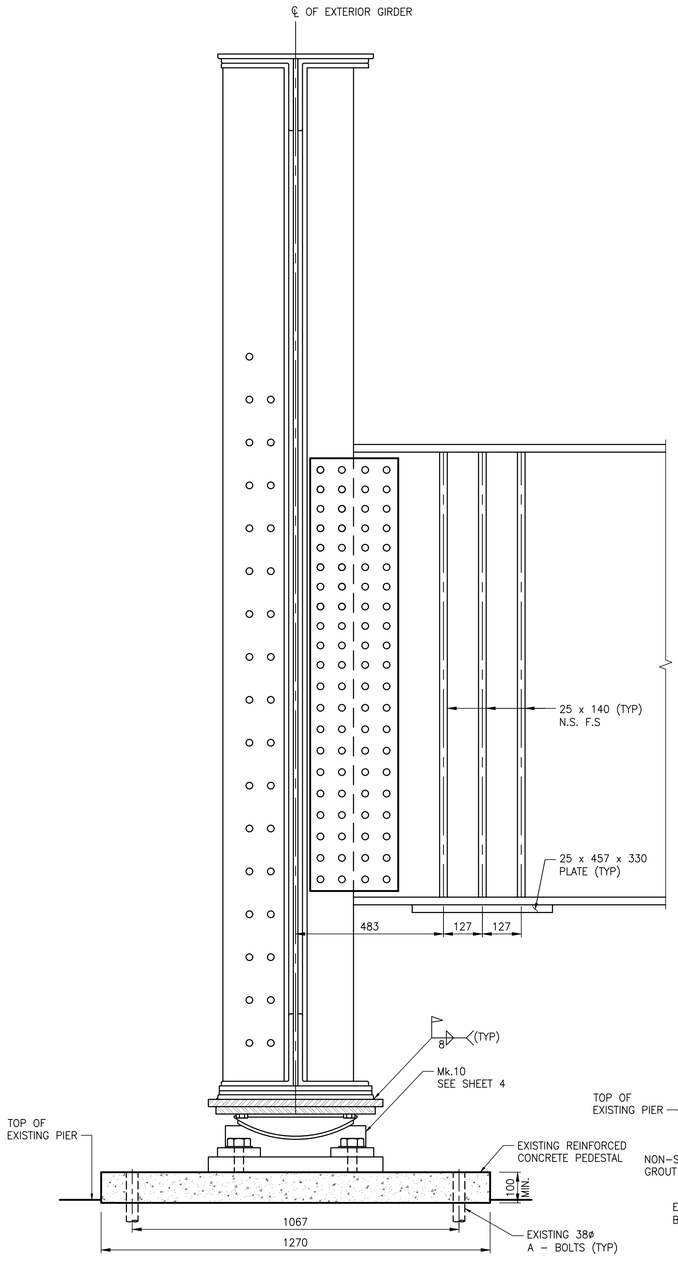
A1 SIZE (594 mm x 841 mm)

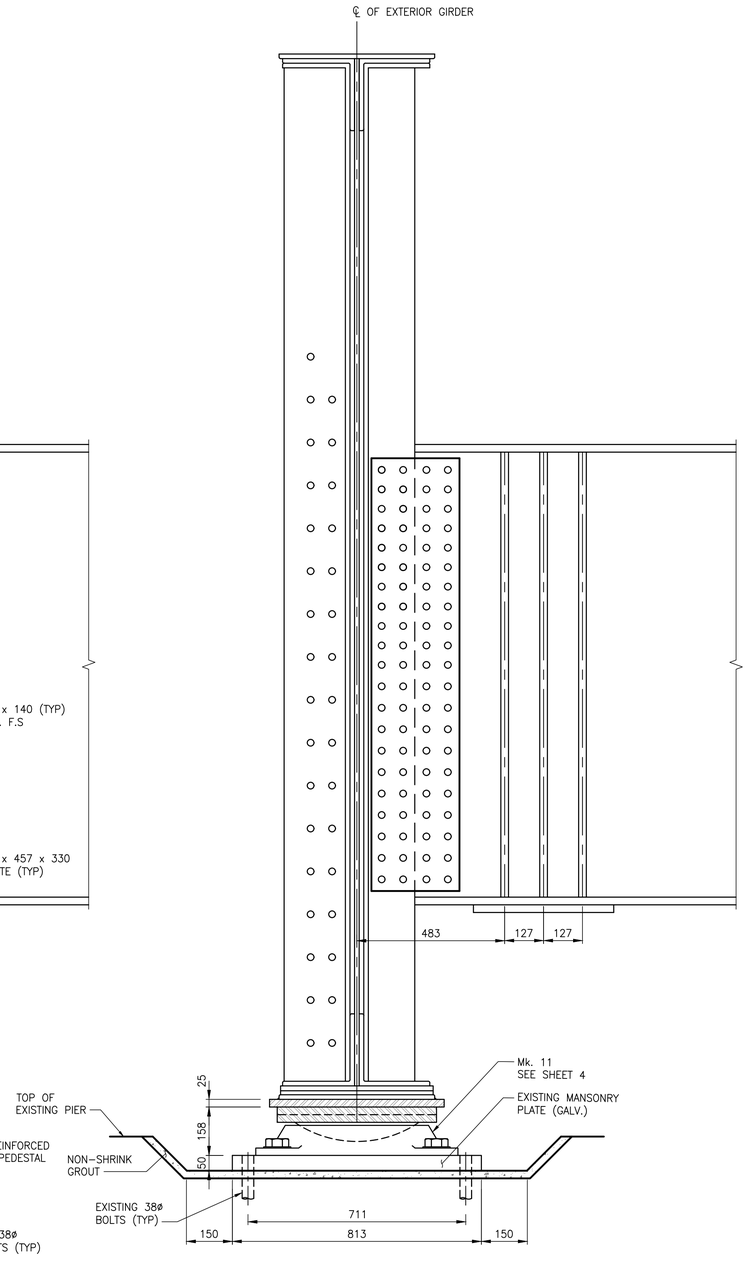
Plotted: May 12, 2025 at 5:23:10 PM | Last saved by: pjetersonc
File: C:\Users\pjetersonc\OC\ACDocs\WSP Canada projects (AMER)\CA0047563.3090 – Midtown Bridge – C2A\Project Files\01–Bridges\03–Working Drawings\CA0047563–3090 Midtown Bridge Repairs – girder repair details (Sheet 1 & 2).dwg | Layout: 6 Girder Repair Details (Sheet 2 of 2)



JACKING BEAM AT PIER 1

SCALE 1:10

(EXTERIOR GIRDER SHOWN, INTERIOR GIRDER SIMILAR.)



JACKING BEAM AT PIER 2

SCALE 1:10

(EXTERIOR GIRDER SHOWN, INTERIOR GIRDER SIMILAR.)

CONTRACTOR MUST CONFIRM MEASUREMENTS ON SITE FOR OVERALL DIMENSIONS, LOCATIONS AND DIAMETERS OF BOLT HOLES, BEND LOCATIONS AND BEND ANGLES.

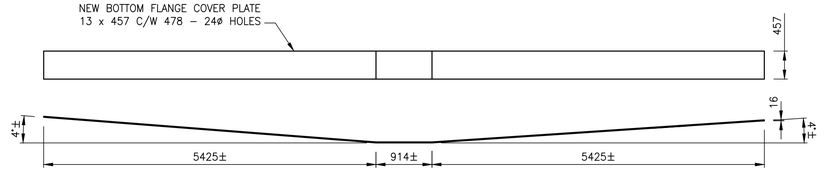
BOLT HOLES NOT SHOWN FOR NEW PLATES BUT WILL NEED TO BE DRILLED AFTER CONTRACTOR CONFIRMS SITE MEASUREMENTS.

JACKING FORCE DATA TABLE	
STRUCTURE	MAXIMUM JACKING FORCE PER JACK (kN)
SOUTH ABUTMENT AND PIER 3	INTERIOR GIRDER: 2970 kN, EXTERIOR GIRDER: 1870 kN
PIER S1 AND S2	INTERIOR GIRDER: 6300 kN, EXTERIOR GIRDER: 4300 kN

NOTE: THE JACKING FORCES ARE BASED ON THE VERTICAL BEARING REACTION FROM THE FACTORED DEAD PLUS LIVE LOADS (INCLUDING CONSTRUCTION LOAD).

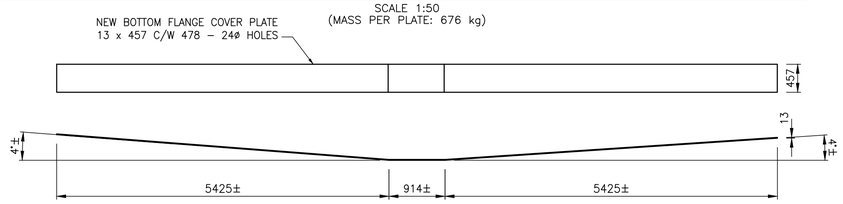
NOTE:
These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
WSP Canada Inc.
No. 5750



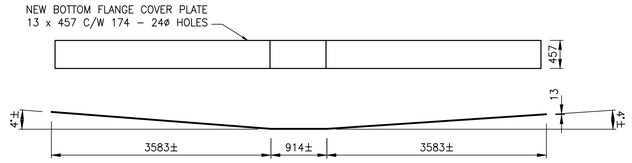
NEW BOTTOM FLANGE COVER PLATE (HIGHEST OF THE THREE NEW PLATES)

SCALE 1:50
(MASS PER PLATE: 676 kg)



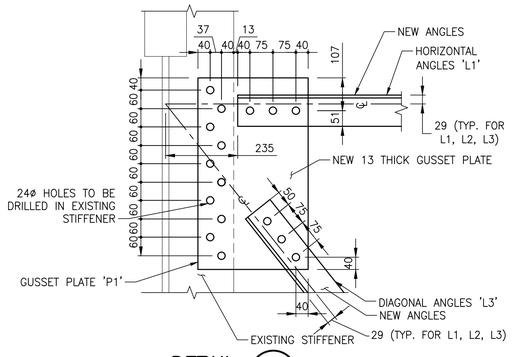
NEW BOTTOM FLANGE COVER PLATE (SECOND LOWEST OF THE THREE NEW PLATES)

SCALE 1:50
(MASS PER PLATE: 536 kg)



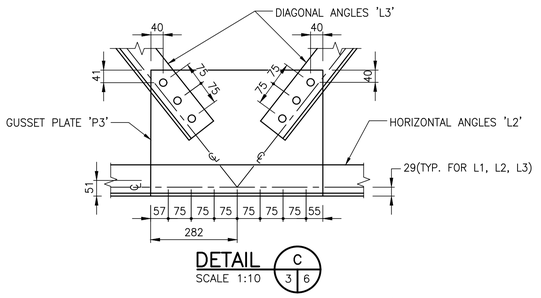
NEW BOTTOM FLANGE COVER PLATE (LOWEST OF THE THREE NEW PLATES)

SCALE 1:50
(MASS PER PLATE: 365 kg)



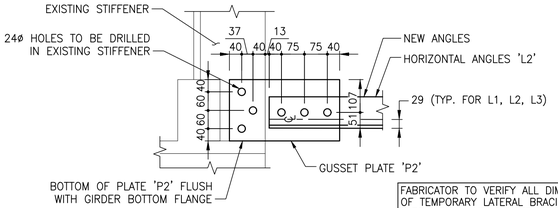
DETAIL A

SCALE 1:10



DETAIL C

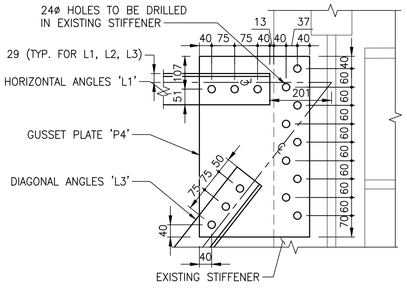
SCALE 1:10



DETAIL B

SCALE 1:10

DETAIL B IS SYMMETRICAL AT BOTH ENDS OF HORIZONTAL ANGLES 'L2'



DETAIL D

SCALE 1:10

FABRICATOR TO VERIFY ALL DIMENSIONS AND LENGTHS OF TEMPORARY LATERAL BRACING PRIOR TO FABRICATION AND CONSTRUCTION. ALL BOLTS 22 DIA A325 WITH 24 DIA HOLES FOR DETAILS A, B, C AND D.

NEW COVER PLATES TO MATCH PROFILES OF EXISTING GIRDER CURVED BOTTOM FLANGES. CONTRACTOR TO CONFIRM PLATE DIMENSIONS PRIOR TO FABRICATION.

NEW BOLTS TO BE GALVANIZED.

METRIC
ALL MEASUREMENTS IN MILLIMETRES UNLESS OTHERWISE STATED

LOCATIONS APPROVED
UNDERGROUND STRUCTURES

SIGNED BY: _____ DATE _____
SUPV U/G STRUCTURES

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTANCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING

G.B.M.
ELEV.

No.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	25.05.13	MLW

WSP Canada Inc.
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www.wsp.com

DESIGNED BY	GN	CHECKED BY	EH
DRAWN BY	BK	APPROVED BY	MLW
HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	M. MADY, Ph.D., P.ENG. CITY OF WINNIPEG
VERTICAL	AS NOTED		
DATE	25.05.13	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
MICHAEL GEORGE MADY
Member 35354
REGISTERED PROFESSIONAL ENGINEER
2025-05-14

CONSULTANT PROJECT No.
CA0047563.3090

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

MIDTOWN BRIDGE MAINTENANCE REPAIRS AND RELATED WORKS

GIRDER REPAIR DETAILS (SHEET 2 OF 2)

CITY DRAWING NUMBER	B114-25-06
BID OPPORTUNITY NUMBER	329-2025
SHEET	6
OF	9
REV	0