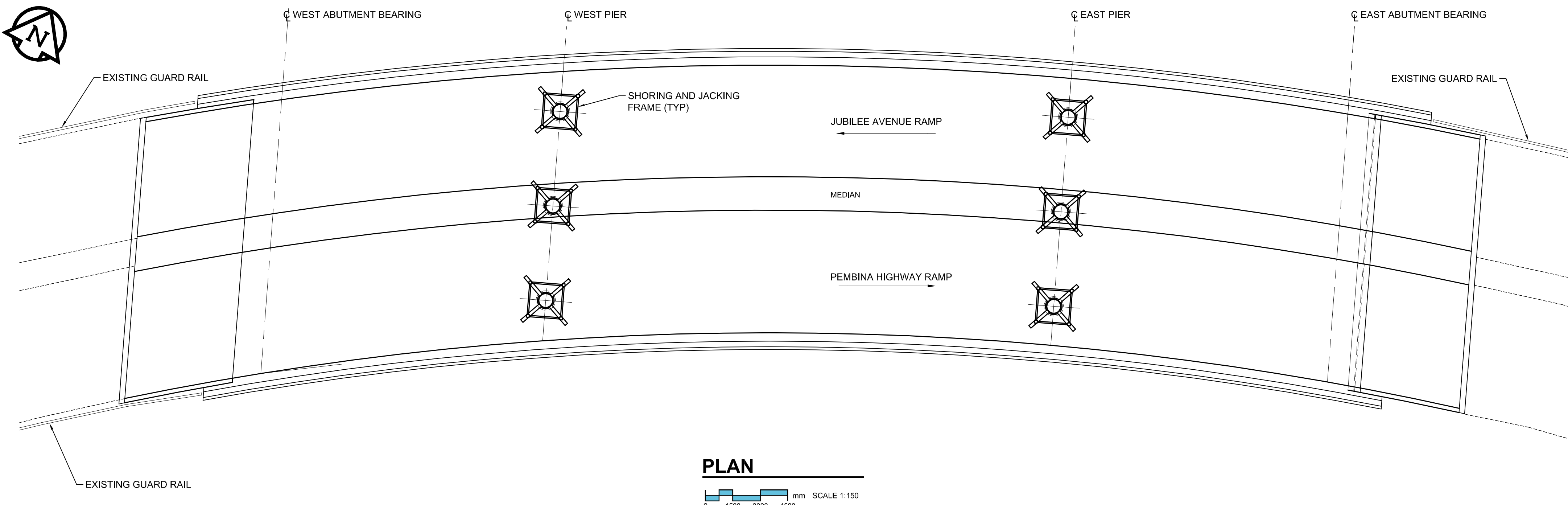


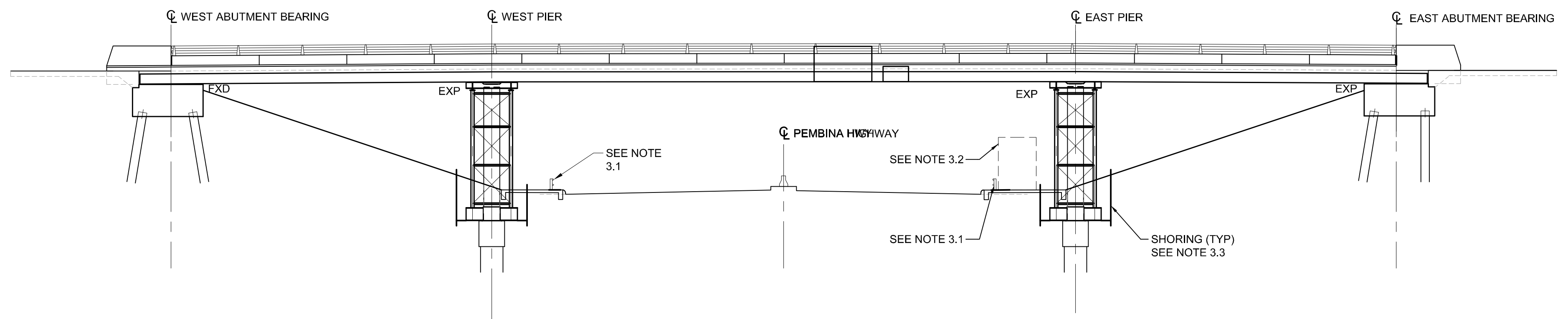
A1 SIZE 23.4" x 33.1" (594mm x 841mm)

PLOT: 10/03/24 11:01:08 AM

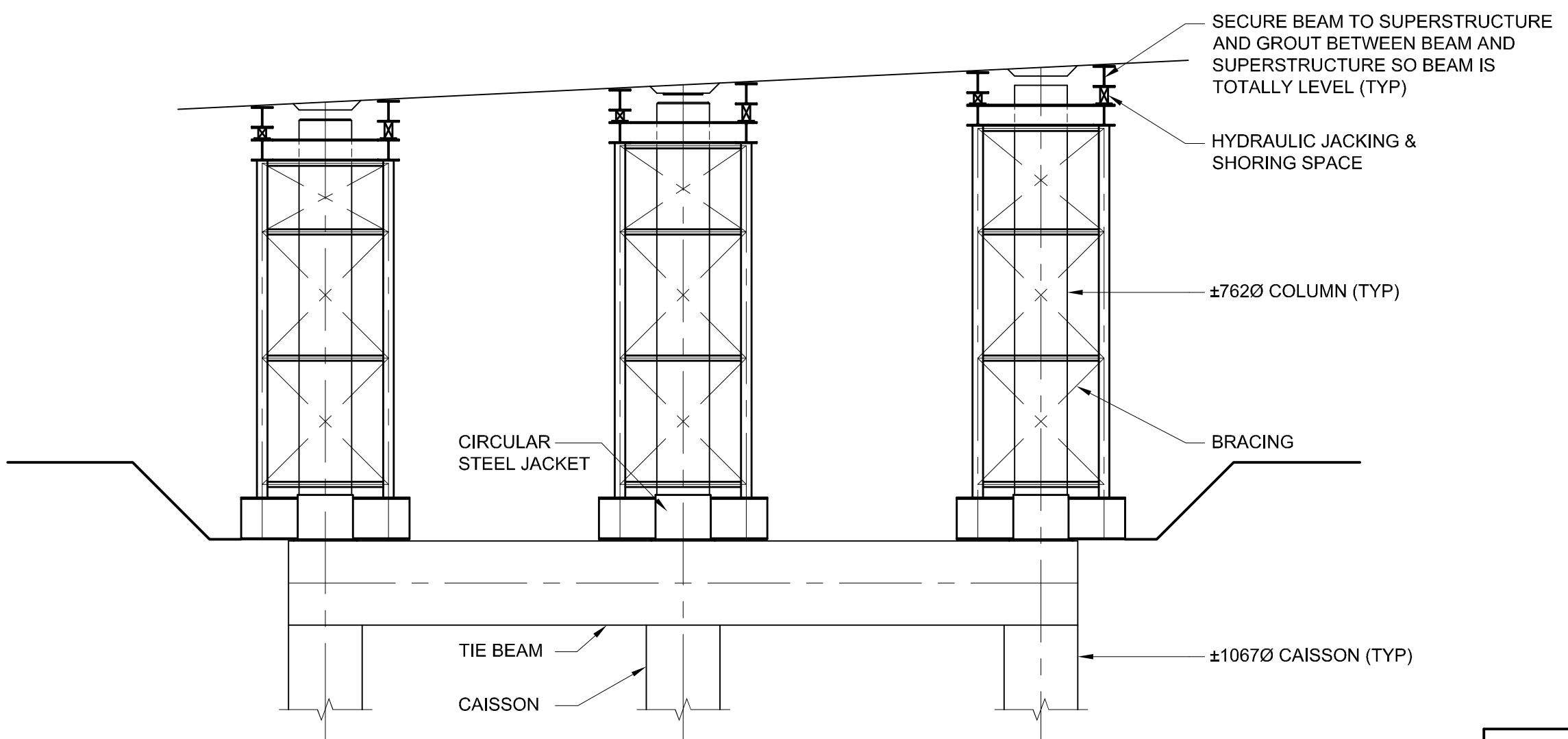
AECOM FILE NAME: 0265-412-00_01-S-0402_RX.dwg Saved By: crossmanac



PLAN
SCALE 1:150

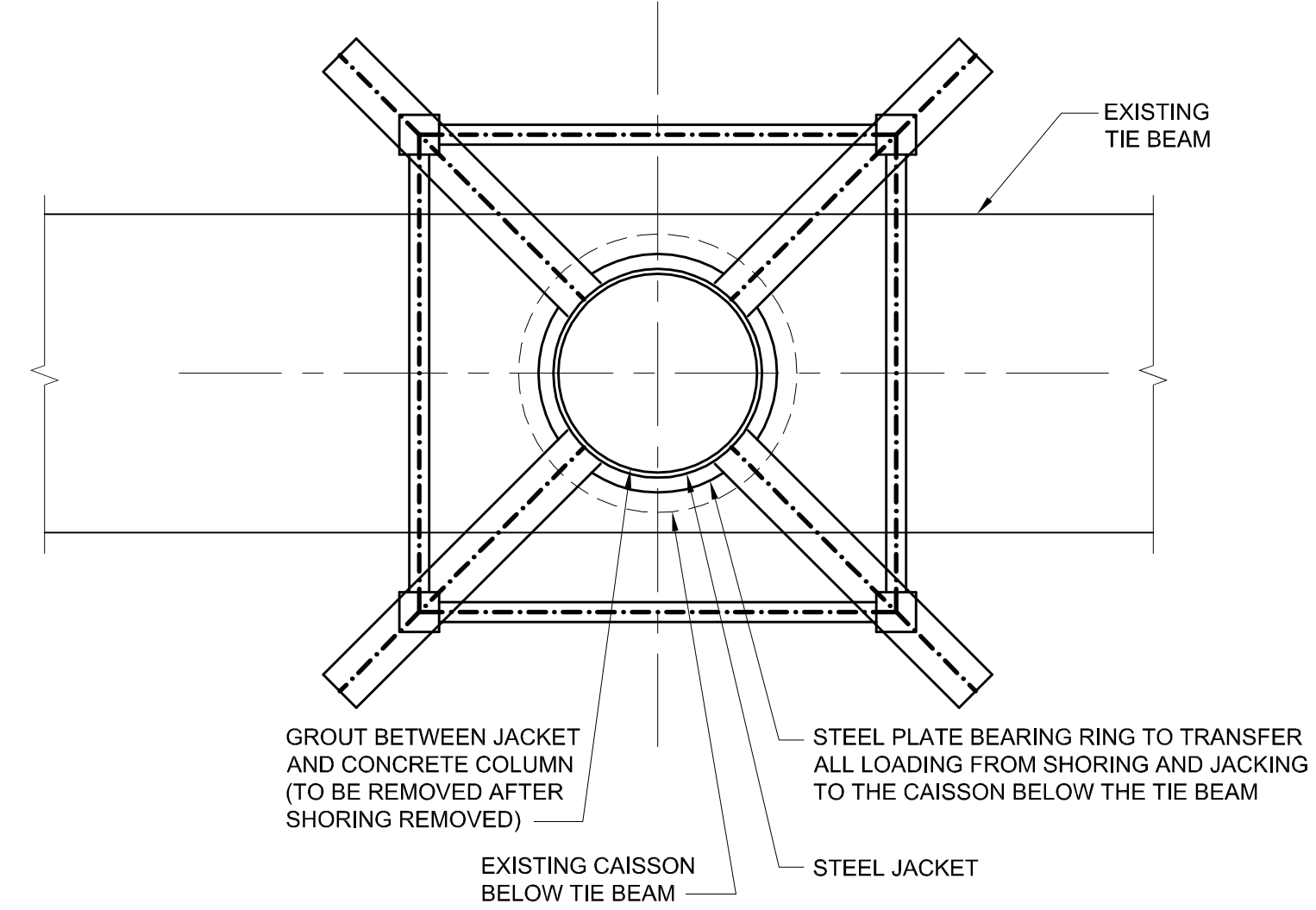


SOUTH ELEVATION
SCALE 1:150



PIER ELEVATION
SCALE 1:75

- NOTES:**
- GENERAL
 - THIS DRAWING PROVIDES AN ACCEPTABLE APPROACH FOR THE SHORING AND JACKING SYSTEM REQUIRED TO REPLACE THE BEARINGS AT ALL PIER COLUMNS.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL CHOICE AND DESIGN OF THE SHORING AND JACKING SYSTEM THAT IS ACCEPTABLE TO THE CONTRACT ADMINISTRATOR.
 - ENGAGE A PROFESSIONAL ENGINEER, REGISTERED IN MANITOBA, TO DO THE SHORING AND JACKING DESIGN AND STAMP THE ASSOCIATED DRAWINGS AND DESIGN CALCULATIONS.
 - SUBMIT SHORING AND JACKING DESIGN CALCULATION AND STAMPED SHOP DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR REVIEW A MINIMUM OF 2 WEEKS PRIOR TO SHORING ERECTION.
 - SHORING AND JACKING REQUIREMENTS
 - THE SYSTEM SHALL BE CAPABLE OF LIFTING THE BRIDGE UNIFORMLY AT EACH PIER. THE LIFT SHALL NOT BE MORE THAN 5mm. THE DIFFERENTIAL IN LIFT BETWEEN ADJACENT COLUMNS SHALL NOT BE MORE THAN 2mm.
 - THE ESTIMATED DEAD LOAD OF THE EXISTING BRIDGE AT EACH EXTERIOR COLUMN AT EACH PIER IS 1960 kN AND THE ESTIMATED DEAD LOAD OF THE EXISTING BRIDGE AT EACH INTERIOR COLUMN AT EACH PIER IS 1650 kN.
 - THE JACKING CAPACITY AT EACH PIER COLUMN SHALL BE AT LEAST 150% OF THE ESTIMATED EXISTING DEAD LOAD OF THE BRIDGE AT THAT PIER COLUMN. ALL JACKING EQUIPMENT SHALL BE TESTED AND FOUND TO BE IN GOOD WORKING CONDITION AND WITHOUT ANY LEAKING OR LOSS OF PRESSURE PRIOR TO USING ON THIS PROJECT.
 - THE SHORING SHALL BE SOLIDLY BLOCKED TO THE SUPERSTRUCTURE AT ALL TIMES EXCEPT DURING A JACKING OPERATION (LIFTING OR LOWERING) WHEN IT WILL BE ALLOWED TO HAVE UP TO 2mm GAP. THE TIME FRAME FOR THESE GAPS SHALL BE KEPT TO THE SMALLEST TIME POSSIBLE AND SHALL NOT EXCEED 30 SECONDS.
 - THE SYSTEM SHALL ACCOMMODATE THE REPLACEMENT OF THE BEARINGS AND ASSOCIATED WORK TO THE TOP OF THE COLUMNS AND TO THE UNDERSIDE OF THE SUPERSTRUCTURE.
 - EXCAVATION AND PEDESTRIAN ACCESS REQUIREMENTS
 - EXISTING ALUMINUM RAILING TO REMAIN DURING THE CONSTRUCTION
 - PROVIDE AN ENCLOSED WALKWAY FOR PEDESTRIAN THROUGH ACCESS. WHEN IT IS NECESSARY, THIS WALKWAY MAY BE TEMPORARILY CLOSE FOR A SHORT PERIOD OF TIME. INFORM THE CONTRACT ADMINISTRATOR 24 PRIOR TO THE TIME INTENDED TO TEMPORARILY CLOSE THE WALKWAY.
 - SHORING IS TO MEET THE WORKPLACE HEALTH AND SAFETY REQUIREMENTS FOR EXCAVATION.



JACKING SUPPORT
SCALE: NTS

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

AECOM
Certificate of Authorization
AECOM Canada Ltd.
Original dated on:
No. 4671 Date: 2010/03/24

BID OPPORTUNITY NO. 133-2010

LOCATION APPROVED UNDERGROUND STRUCTURES		SUPR. / UG STRUCTURES COMMITTEE		DATE
0	ISSUED FOR CONSTRUCTION	10/03/24	CPK	
A	ISSUED FOR 100% REVIEW	10/03/08	DJH	
NO.	REVISIONS	YYMMDD	BY	

DESIGNED BY		CHECKED BY	
AP		SBB / CGC	
DRAWN BY		APPROVED BY	
DJH			
HOR. SCALE		RELEASED FOR CONSTRUCTION	
AS NOTED			
VERT. SCALE		DATE	
AS NOTED			

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
A. POCHANART
Member 90017
MARCH 24/2018
CONSULTANT DRAWING NO.
0265-412-00_01-S-0402_RX.dwg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

JUBILEE AVENUE OVERPASS REHABILITATION

SHORING SCHEME FOR BEARING REPLACEMENT

CITY DRAWING NUMBER: B124-10-05
SHEET 05 OF 51
DRAWING No. 05
REV 0