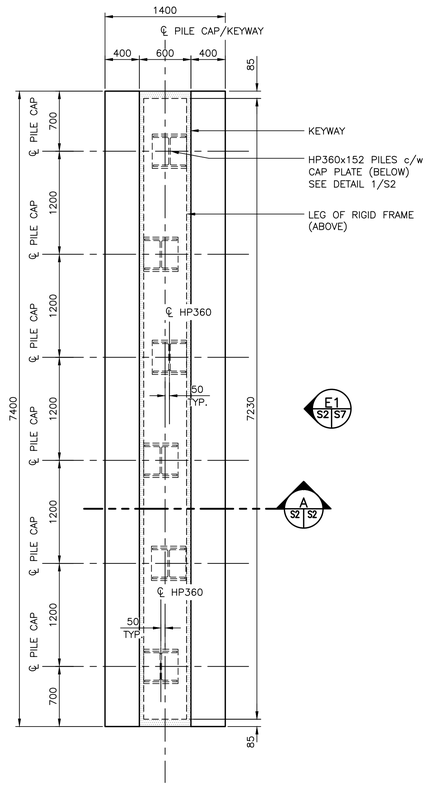
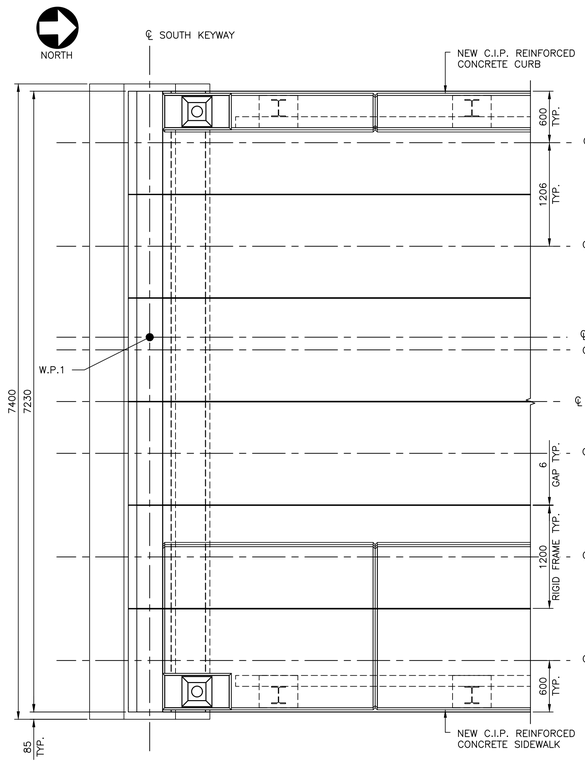


PLAN – TYPICAL PILE CAP

SCALE : 1:30

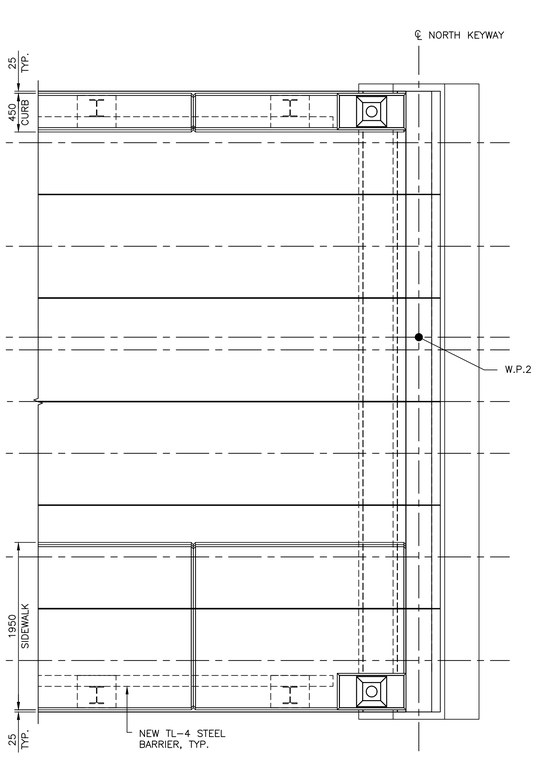
0mm 500mm 1000mm 1500mm 2000mm 2500mm 3000mm



PLAN – SOUTH ABUTMENT

SCALE : 1:30

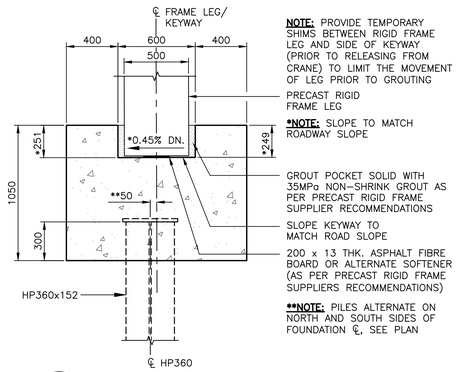
0mm 500mm 1000mm 1500mm 2000mm 2500mm 3000mm



PLAN – NORTH ABUTMENT

SCALE : 1:30

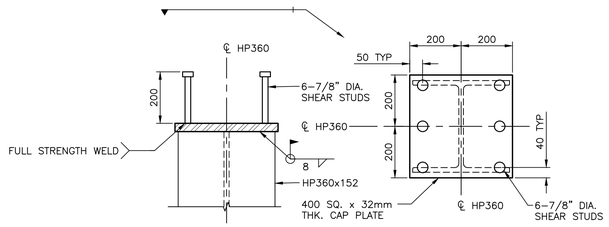
0mm 500mm 1000mm 1500mm 2000mm 2500mm 3000mm



A S2 S2 SECTION – TYPICAL PILE CAP

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm



1 S2 S2 DETAIL – PILE CAP PLATE

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

PILE NOTES:

1. PILE MATERIAL:
   - A) STEEL H PILES IN ABUTMENT, HP360 x 152, Fy = 350 MPa (MIN.).
   - B) ALL PILE SPLICES SHALL BE FULL STRENGTH WELDED CONNECTIONS (LIMIT 1 SPLICE PER PILE).
   - C) CAP PLATE, Fy = 350 MPa (MIN.).
   - D) WELDING MATERIAL TO CSA W48.1 – (LATEST EDITION).
   - E) WELDING TO BE IN ACCORDANCE TO CSA W59 – (LATEST EDITION).
2. PILE INSTALLATION CRITERIA AS PER HARBOURSIDE GEOTECHNICAL CONSULTANTS REPORT No. 193135 DATED 2019-12-02.
3. FULL TIME INSPECTION SHALL BE UNDERTAKEN DURING PILE DRIVING AND COMPLETE DRIVING RECORDS SHALL BE KEPT BY THE CONTRACTOR.
4. DYNAMIC PILE MONITORING (PDA) SHALL BE CARRIED OUT ON THE INITIAL PILE INSTALLATIONS TO VERIFY THAT OVERSTRESSING DOES NOT OCCUR, THAT THE HAMMER IS OPERATING WITHIN NORMAL EFFICIENCIES, AND THAT THE ESTIMATED RESISTANCE PROVIDED FOR DESIGN IS ACHIEVED AT THE EMBEDMENT CRITERIA.
5. PILE CAPACITIES OF AT LEAST TWO PILES PER ABUTMENT SHALL BE CONFIRMED BY PDA TESTING AT THE END OF INITIAL DRIVE AND RE-STRIKE CONDITIONS WITH ADDITIONAL PDA TESTING TO BE COMPLETED AT THE DISCRETION OF THE PROJECT GEOTECHNICAL ENGINEER.
6. RE-STRIKE OF 2 PILES PER ABUTMENT SHALL BE UNDERTAKEN AT 24 AND 72 HOURS AFTER EACH INITIAL DRIVE.
7. PILES SHALL BE DRIVEN (IMPACT METHODS) ONLY. VIBRATORY AND DRILLING METHODS SHALL NOT BE PERMITTED. THE PILE HAMMER MUST BE CAPABLE OF DELIVERING THE REQUIRED ENERGY TO COMPLETE PDA TESTING AND MUST ALSO BE CAPABLE OF DELIVERING VARIABLE AMOUNTS OF ENERGY.
8. DESIGN PILE CAPACITY AT ULS:
   - A) HP360x152 PILES ..... 785 kN (C)

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

HARBOURSIDE Engineering Consultants

REGISTERED PROFESSIONAL ENGINEER 25 AUG 2022 9692 PROVINCE OF NOVA SCOTIA

revisions		date
0	ISSUED FOR TENDER	25 AUG 2022

project / projet

JOHN PAUL LANE BRIDGE REPLACEMENT

ESKASONI, NOVA SCOTIA

drawing / dessin

ABUTMENT PLAN, DETAIL AND SECTIONS

designed / conçu: P.BURKE — date: MAY 2022

drawn / dessiné: L.DOUCETTE — date: MAY 2022

approved / approuvé: P.BURKE — date: MAY 2022

Tender / Soumission: MacNeil, Jerome — Digitally signed by Tender_Jerome DN: c=MacNeil, Jerome C, o=CA-1, ou=PWGSC-TPSGC, Date: 2022.08.25 08:43:46 -03'00'

PWGSC Project Manager / Administrateur de projets TPSGC

project number / no. du projet: R.116831.001

drawing no. / no. du dessin: S2

PWGSC B1 (2004)

E-DRM/GDD-E: 553500