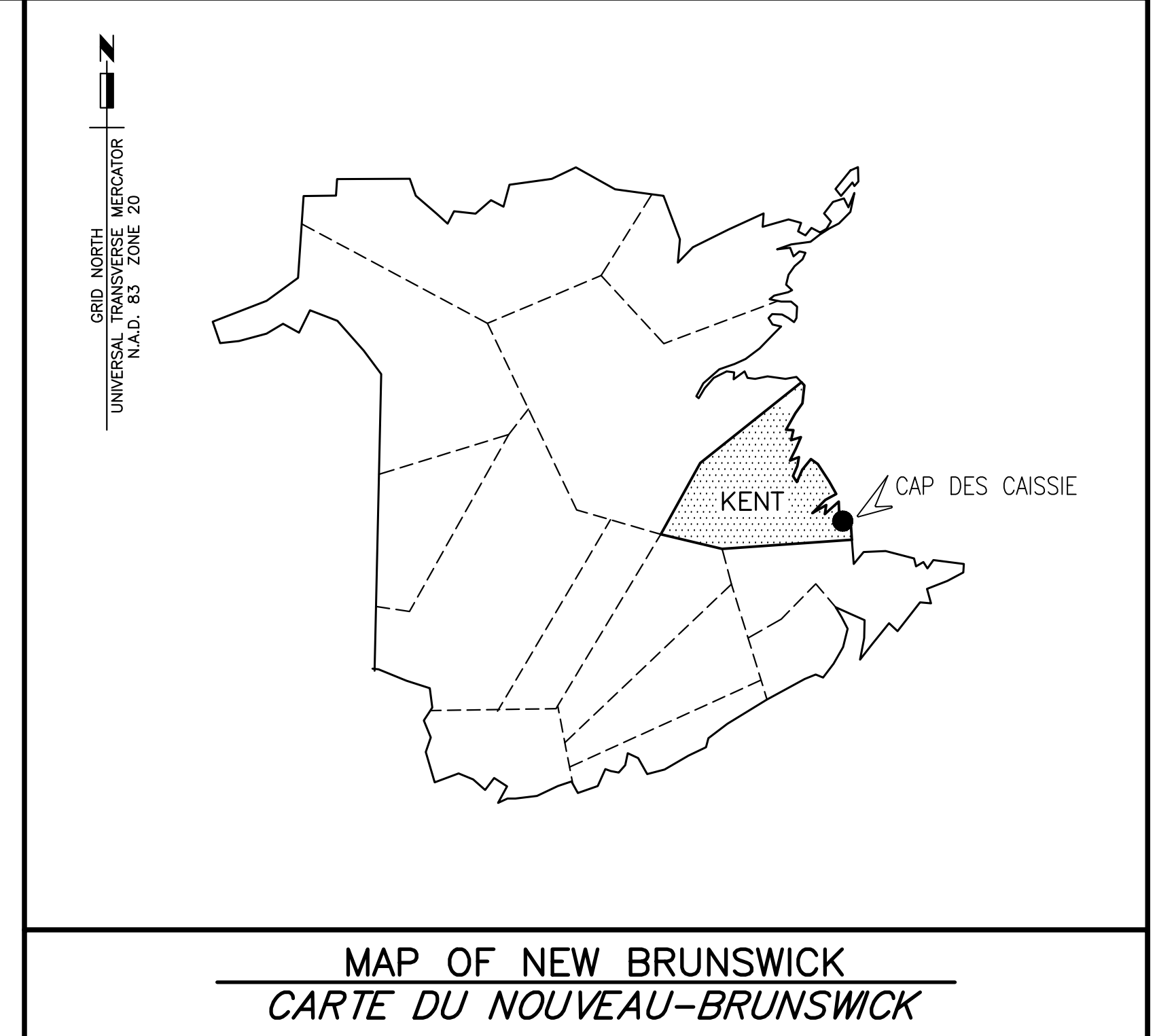


**Fisheries and Oceans
Canada**

**Small Craft Harbours
Maritimes / Gulf Region**

**Pêches et Océans
Canada**

**Ports pour Petits Bateaux
Région des Maritimes / Golfe**



NEW MARGINAL WHARF
NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE
N.B./N.-B.

PROJECT NO. 722234

DRAWING LIST/LISTE DE DESSINS

CIVIL/CIVIL

C1 DRAINAGE AND FRESH WATER PLAN
PLAN DE DRAINAGE ET D'EAU DOUCE

MARINE/MARINE

M1 EXISTING SITE PLAN
PLAN DE SITE EXISTANT

M2 EXISTING SECTIONS
COUPES EXISTANTES

M3 PLAN OF NEW WORK
PLAN DES NOUVEAUX TRAVAUX

M4 PLAN OF PILE LAYOUT AND ELEVATION
PLAN DE L'ALIGNEMENT DES PIEUX ET ÉLÉVATION

M5 ELEVATIONS
ÉLÉVATIONS

M6 SECTIONS AND DETAILS
COUPES ET DÉTAILS

M7 SECTIONS AND DETAILS
COUPES ET DÉTAILS

M8 SECTIONS AND DETAILS
COUPES ET DÉTAILS

M9 SECTIONS AND DETAILS
COUPES ET DÉTAILS

M10 REINFORCING SECTIONS AND DETAILS
COUPES ET DÉTAILS D'ARMATURE

M11 REINFORCING SECTIONS AND DETAILS
COUPES ET DÉTAILS D'ARMATURE BATEAU

M12 BOREHOLE RECORD AND SECTIONS
RECORD DE FORAGE ET COUPES

ELECTRICAL/ÉLECTRIQUE

E1 WHARF PLAN ELECTRICAL

E2 ELECTRICAL DETAILS

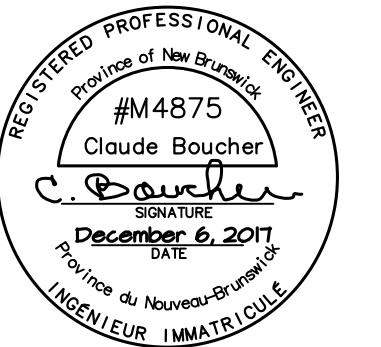
E3 ELECTRICAL DETAILS

E4 ELECTRICAL DETAILS

E5 POWER DISTRIBUTION SINGLE LINE DIAGRAM

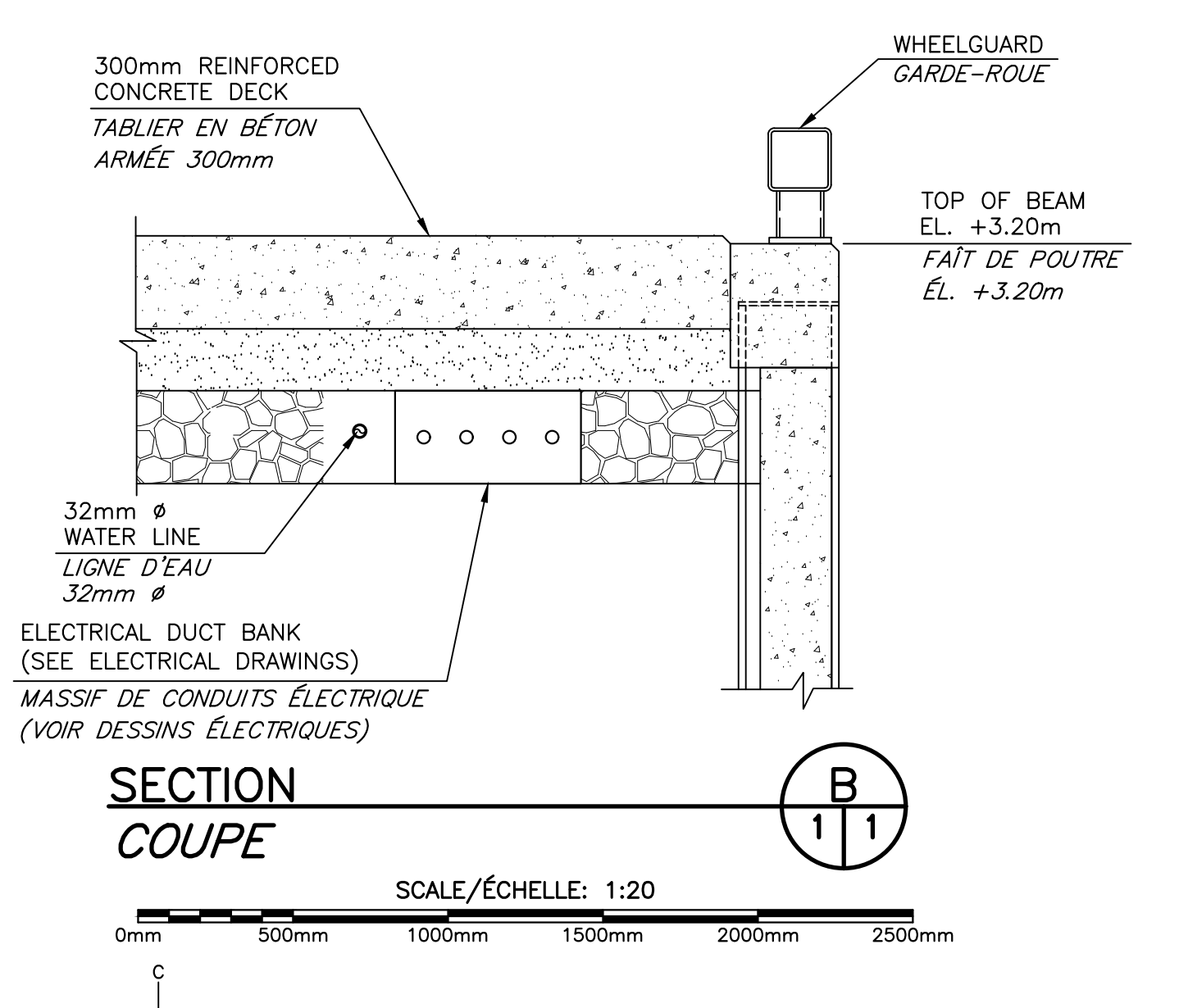
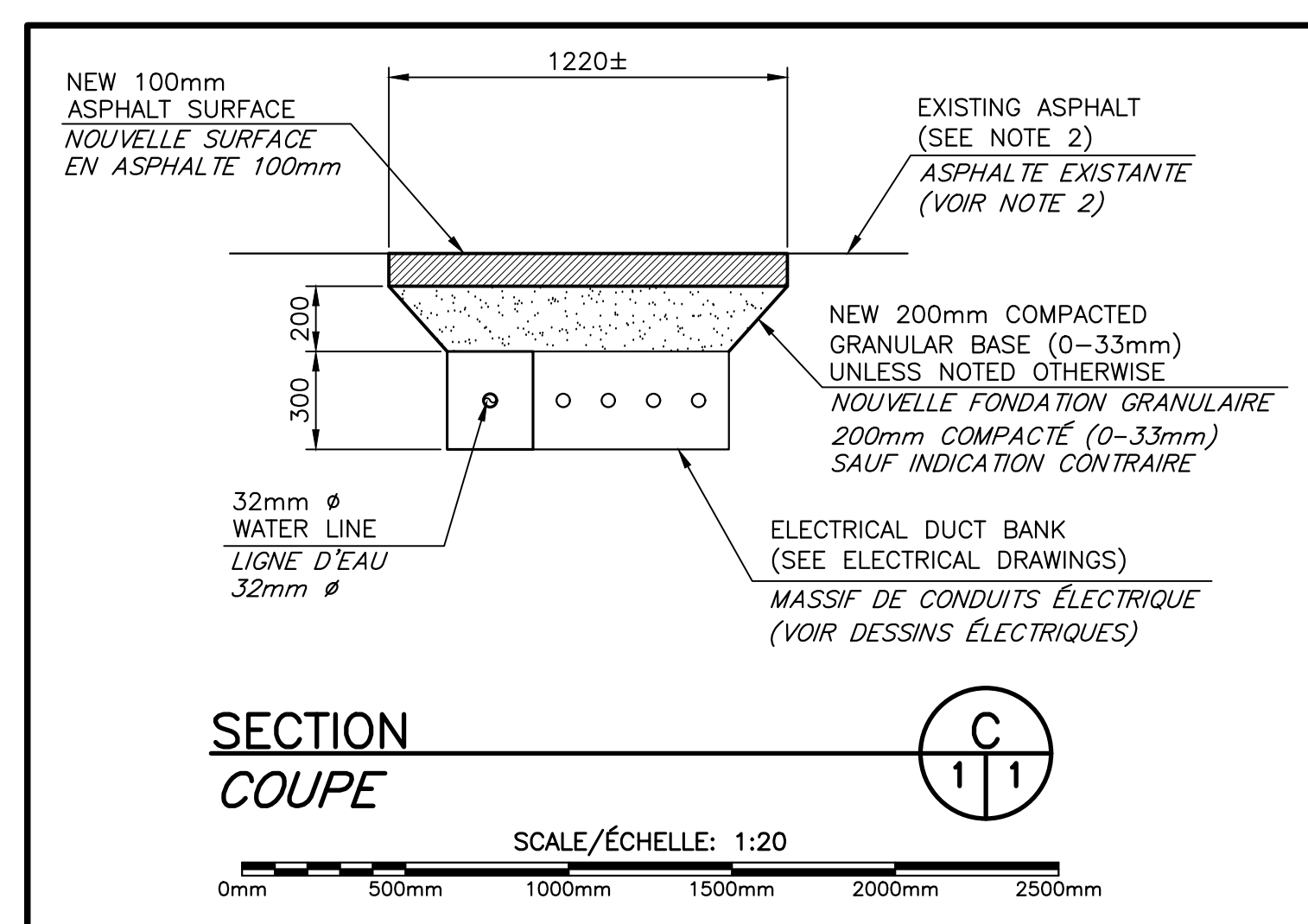
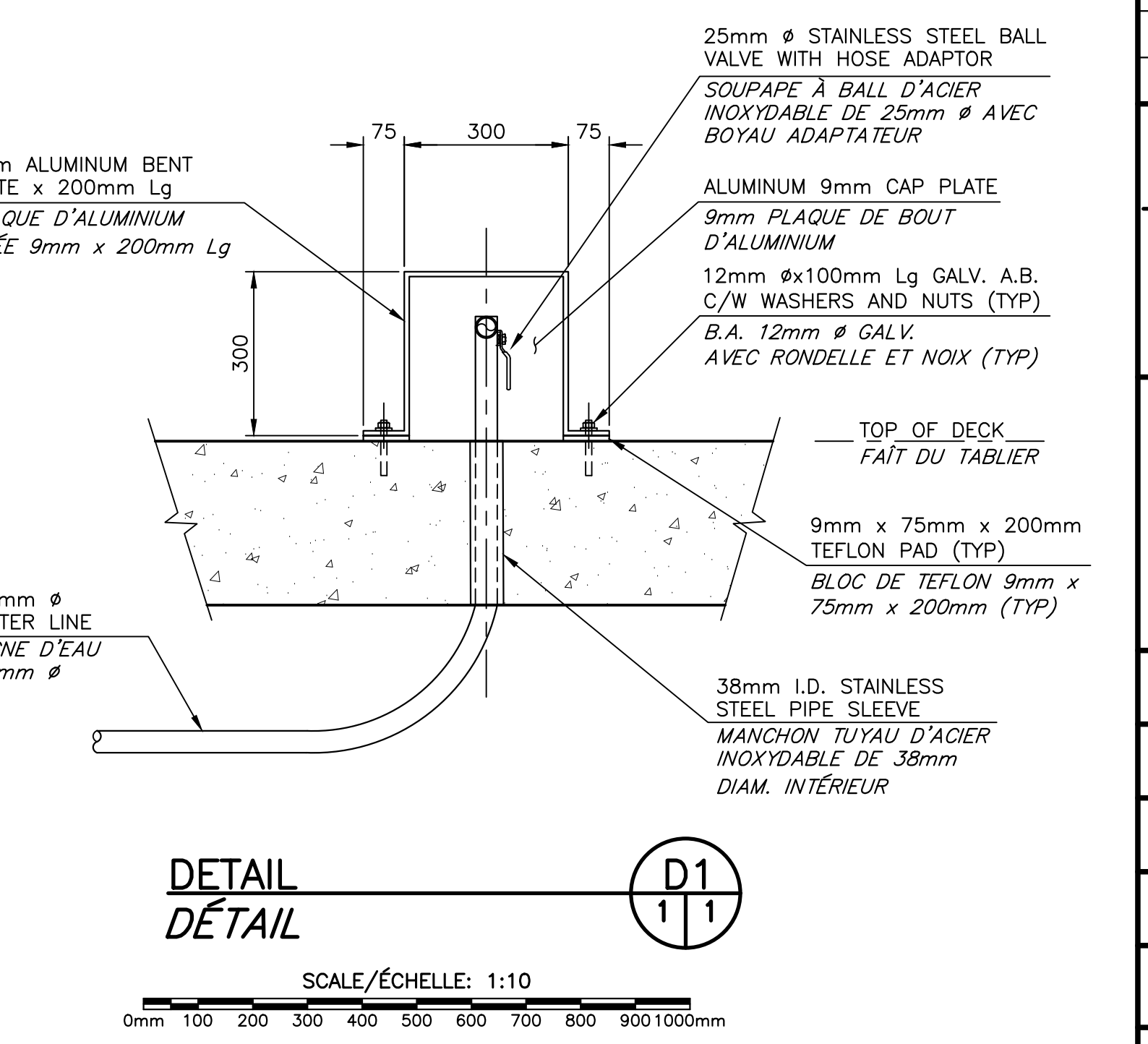
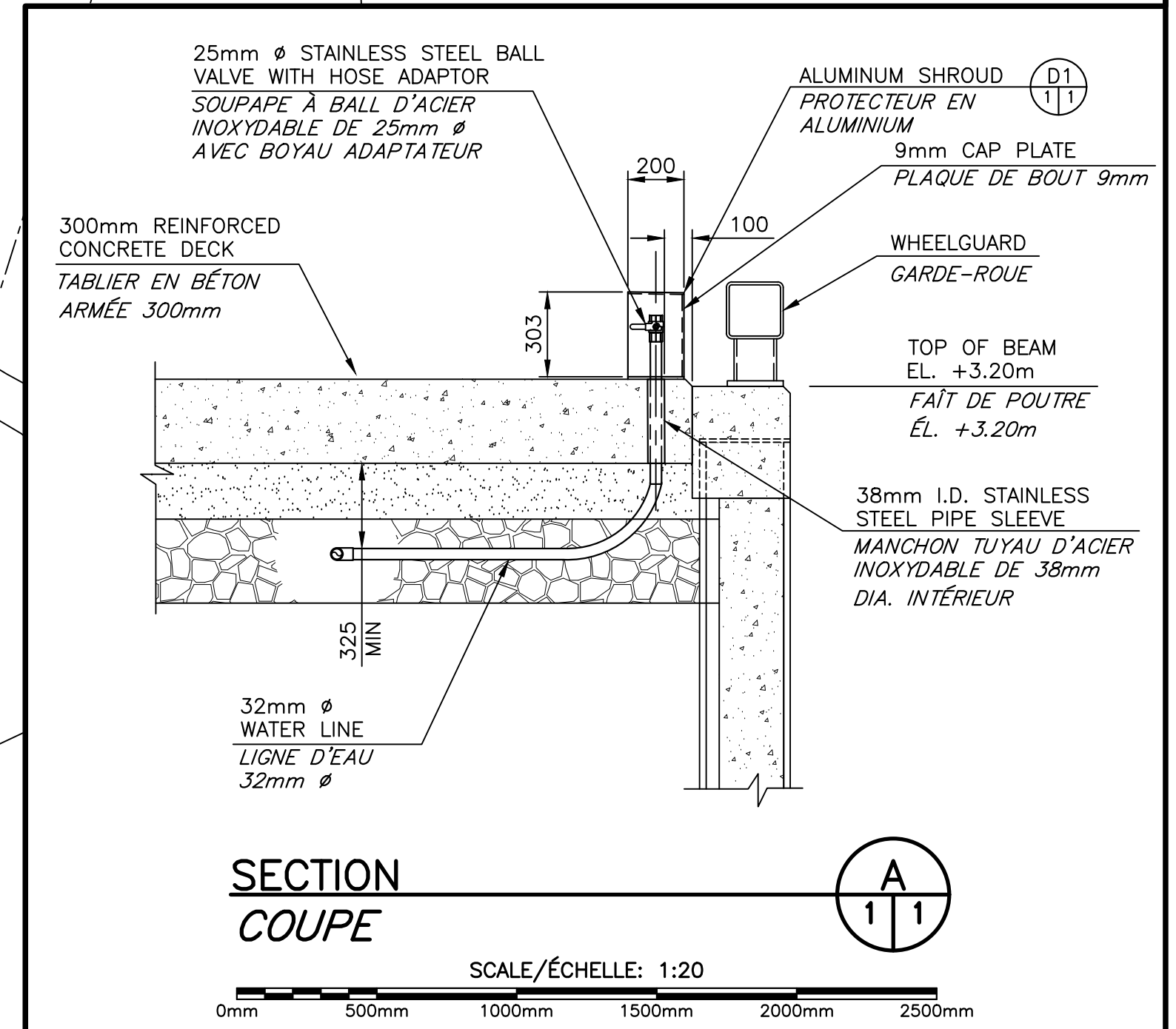
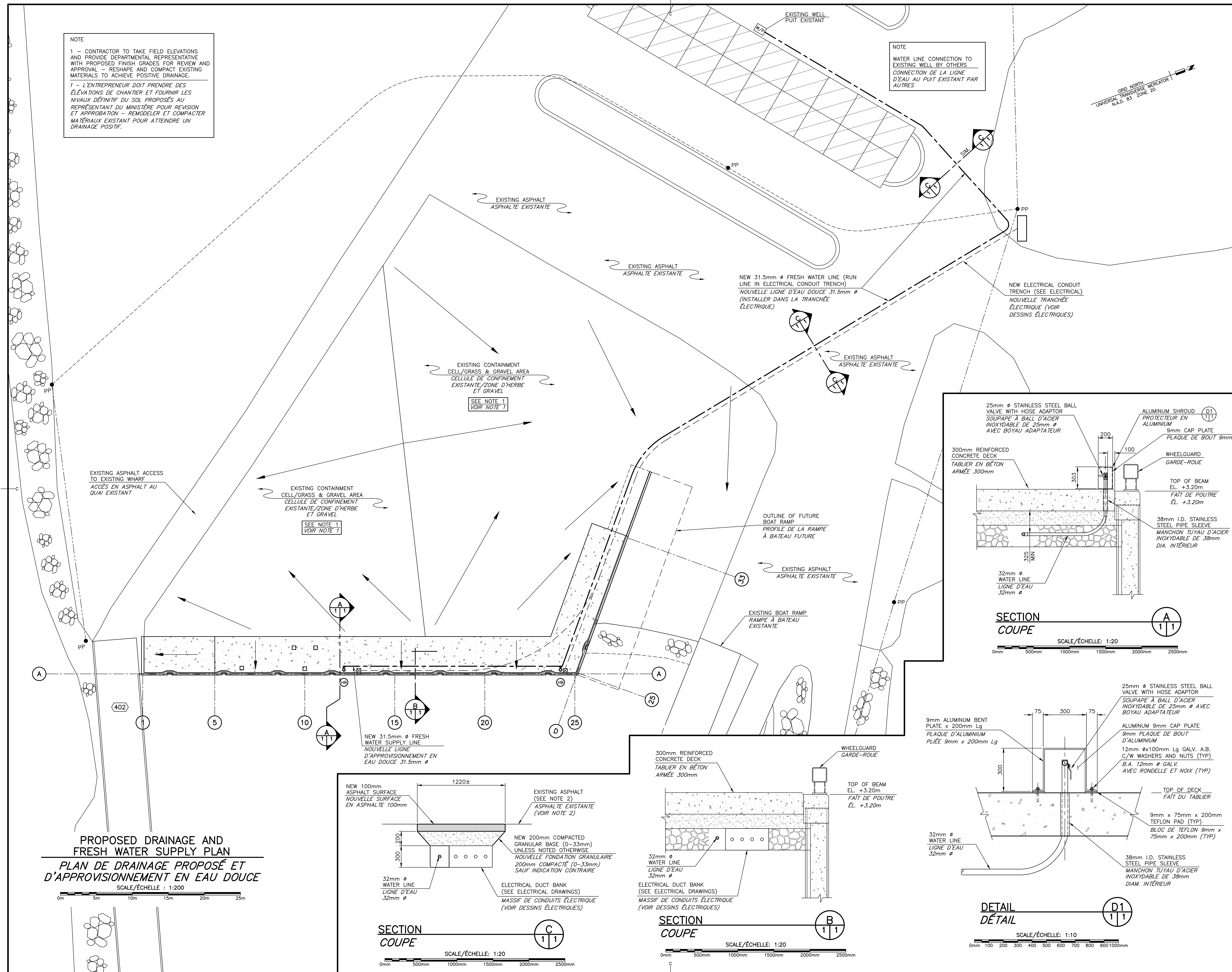
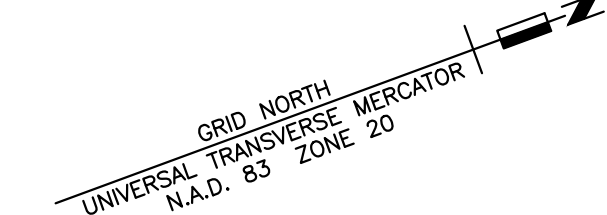
E6 WHARF PLAN EXISTING ELECTRICAL

Canada



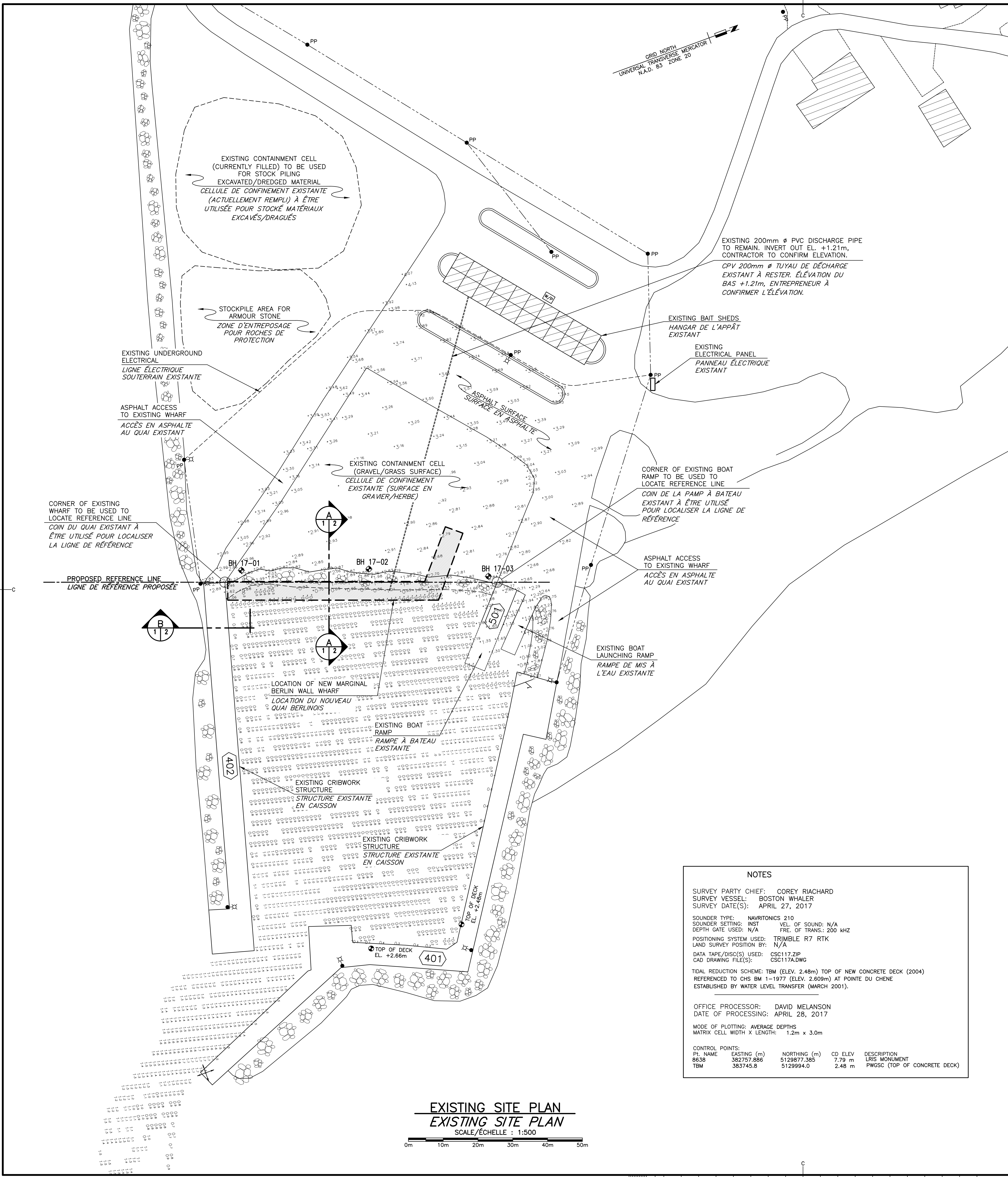
NOTE
1 - CONTRACTOR TO TAKE FIELD ELEVATIONS AND PROVIDE DEPARTMENTAL REPRESENTATIVE WITH PROPOSED FINISH GRADES FOR REVIEW AND APPROVAL - RESHAPE AND COMPACT EXISTING MATERIALS TO ACHIEVE POSITIVE DRAINAGE.
1 - L'ENTREPRENEUR DOIT PRENDRE DES ÉLÉVATIONS DE CHANTIER ET FOURNIR LES NIVEAUX DÉFINITIF DU SOL PROPOSÉS AU REPRÉSENTANT DU MINISTÈRE POUR REVISION ET APPROBATION - REMODELER ET COMPACTER MATÉRIAUX EXISTANT POUR ATTEINDRE UN DRAINAGE POSITIF.

NOTE
WATER LINE CONNECTION TO EXISTING WELL BY OTHERS
CONNEXION DE LA LIGNE D'EAU AU PUIT EXISTANT PAR AUTRES



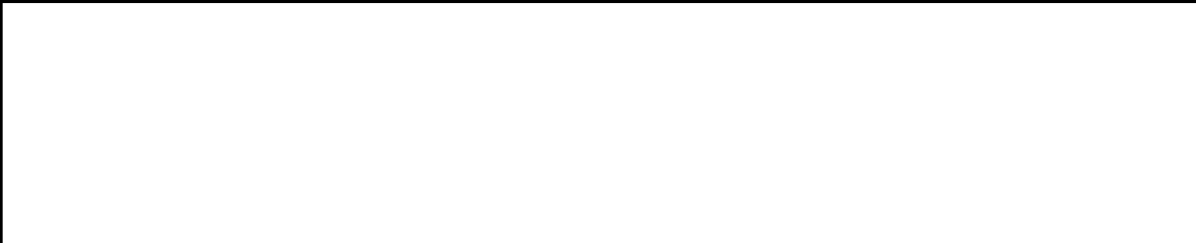
PROPOSED DRAINAGE AND FRESH WATER SUPPLY PLAN
PLAN DE DRAINAGE PROPOSÉ ET D'APPROVISIONNEMENT EN EAU DOUCE
SCALE/ÉCHELLE: 1:200

1	FOR TENDER / POUR SOUMISSION	DEC 5 2017
revisions		date
project		project
NEW MARGINAL WHARF		
NOUVEAU QUAI MARGINAL		
STRUCTURE 403		
CAP des CAISSIE, NB		
COMTÉ DE KENT COUNTY		
drawing		dessin
DRAINAGE AND FRESH WATER PLAN		
PLAN DE DRAINAGE ET D'EAU DOUCE		
designed by	BOUCHER CONSTRUCTION LTD	conçu
date	SEPTEMBER/SEPTEMBRE 2017	date
drawn	P. LEBLANC	dessiné
date	SEPTEMBER/SEPTEMBRE 2017	date
approved		approuvé
date		date
Tender		Submission
Project Manager	P. LEBLANC	Administrateur de projets
project number	722234	no. du projet
drawing no.	C1 of/de C1	no. du dessin



LEGEND / LÉGENDE

- AREA OF WORK / LOCATION DES TRAVAUX
- BUILDING / ÉDIFICE
- WINCH / TREUIL
- ELECTRICAL POLE / POTEAU D'ÉLECTRICITÉ
- ELECTRICAL POLE AND LIGHT / POTEAU D'ÉLECTRICITÉ ET LUMIÈRE
- OVERHEAD WIRES / FIL ÉLECTRIQUE AÉRIEN
- BENCHMARK / BORNE RÉFÈRE
- BOREHOLE - SEE M13 FOR INFORMATION / FORAGE - VOIR M13 POUR INFORMATION
- NAVIGATIONAL LIGHT / FEU DE NAVIGATION
- ARMOUR STONE / PIERRE DE PROTECTION
- SOUNDINGS BELOW CHART DATUM - ELEVATIONS MAY BE DIFFERENT THAN SHOWN / SONDAGE AU-DESSOUS DU ZÉRO DES CARTES - ÉLEVATIONS PEUVENT ÊTRE DIFFÉRENTES QUE MONTRÉES
- SOUNDINGS ABOVE CHART DATUM - ELEVATIONS MAY BE DIFFERENT THAN SHOWN / SONDAGE AU-DESSUS DU ZÉRO DES CARTES - ÉLEVATIONS PEUVENT ÊTRE DIFFÉRENTES QUE MONTRÉES
- EXISTING WELL / PUIT EXISTANT



NOTES / NOTES

- EXISTING PLAN AND SECTIONS ARE APPROXIMATE ONLY. THE ACTUAL CONSTRUCTION CONFIGURATION AND DETAILS MAY DIFFER THAN SHOWN.
 1 - PLAN ET COUPES EXISTANTS SONT APPROXIMATIVES SEULEMENTS. LES CONDITIONS DE CONSTRUCTIONS RÉELLES ET DÉTAILS PEUVENT ÊTRE DIFFÉRENTS TEL QUE MONTRER.
- CONTRACTOR TO DETERMINE SUITABILITY OF ALL ACCESS STRUCTURES FOR INTENDED LOADS. ENSURE NO PART OF STRUCTURES ARE SUBJECTED TO LOADS THAT WILL ENDANGER ITS SAFETY OR CAUSE DAMAGE.
 2 - L'ENTREPRENEUR DOIT S'ASSURER QUE TOUTES LES STRUCTURES D'ACCÈS SONT ADEQUATES POUR SUPPORTER LES CHARGES PROPOSÉES. IL FAUT ASSURER QU'AUCUNE PARTIE DES STRUCTURES SONT SOUMISE À DES CHARGEMENTS QUI POURRAIT METTRE EN DANGER LA SÉCURITÉ OU CAUSER DES DOMAGES.
- CONDUITS, POWER POLES AND ELECTRICAL COMPONENTS TO BE REMOVED IN AREAS OF WORK IF REQUIRED TO PERMIT NEW WORK.
 3 - ENLEVER LES LIGNES ET CONDUITS, POTEAUX ET INSTALLATIONS ÉLECTRIQUES DANS LA ZONE DE TRAVAUX SI REQUIS POUR PERMETTRE LES NOUVEAUX TRAVAUX.
- THE CONTRACTOR IS ADVISED THAT THE LOBSTER FISHERY WILL BE IN EFFECT FROM EARLY AUGUST TO MID-OCTOBER. FISHERMEN, FISH BUYERS, TRAFFIC WILL BE UTILIZING THESE STRUCTURES ON A REGULAR BASIS. VARIOUS FISHERY ACTIVITIES WILL BE IN EFFECT AT VARIOUS TIMES FROM SPRING TO FALL. COORDINATE WORK ACCORDINGLY.
 4 - L'ENTREPRENEUR EST AVISÉ QUE LA PÊCHE AUX HOMARDS SERA EN VIGUEUR À PARTIR DU DÉBUT AOÛT JUSQU'À LA MI-OCTOBRE. LES PÊCHEURS, ACHETEURS, EN PLUS DE LA CIRCULATION VONT EMPLOYER CES STRUCTURES RÉGULIÈREMENT. AUTRES ACTIVITÉS DES PÊCHES SERONT EN VIGUEUR À DIFFÉRENTES PÉRIODES DU PRINTEMPS JUSQU'À L'AUTOMNE, COORDONNER LES TRAVAUX EN CONSÉQUENCES.

NOTES

SURVEY PARTY CHIEF: COREY RIACHARD
 SURVEY VESSEL: BOSTON WHALER
 SURVEY DATE(S): APRIL 27, 2017

SOUNDER TYPE: NAVITRONICS 210
 SOUNDER SETTING: INST VEL. OF SOUND: N/A
 DEPTH GATE USED: N/A FRE. OF TRANS: 200 KHZ
 POSITIONING SYSTEM USED: TRIMBLE R7 RTK
 LAND SURVEY POSITION BY: N/A
 DATA TAPE/DISC(S) USED: CSC117.ZIP
 CAD DRAWING FILE(S): CSC117A.DWG

TIDAL REDUCTION SCHEME: TBM (ELEV. 2.48m) TOP OF NEW CONCRETE DECK (2004)
 REFERENCED TO CHS BM 1-1977 (ELEV. 2.609m) AT POINT DU CHENE
 ESTABLISHED BY WATER LEVEL TRANSFER (MARCH 2001).

OFFICE PROCESSOR: DAVID MELANSON
 DATE OF PROCESSING: APRIL 28, 2017

MODE OF PLOTTING: AVERAGE DEPTHS
 MATRX CELL WIDTH X LENGTH: 1.2m x 3.0m

CONTROL POINTS:

PL. NAME	EASTING (m)	NORTHING (m)	CD ELEV	DESCRIPTION
8638	382757.886	5129877.385	7.79 m	LRIS MONUMENT
TBM	383745.8	5129994.0	2.48 m	FWGSC (TOP OF CONCRETE DECK)

EXISTING SITE PLAN
EXISTING SITE PLAN
 SCALE/ECHELLE : 1:500

Fisheries and Oceans Canada / Pêches et Océans Canada
 Small Craft Harbours / Ports pour Petits Bateaux
 Maritimes / Gulf Region / Région des Maritimes / Goffs

Boucher Eng. & Const. Ltd.
 Upper Rexton, N.B.

REGISTERED PROFESSIONAL ENGINEER
 Province of New Brunswick
 #M4875
 Claude Boucher
 Ingénieur
 December 6, 2017
 Arrêté du Ministère de l'Énergie et des Ressources
 Ingénieur, IMMATRICULÉ

CHART OF LOCATION / CARTE D'EMPLACEMENT

1	FOR TENDER / POUR SOUMISSION	DEC 6 2017
revisions		date
project		project

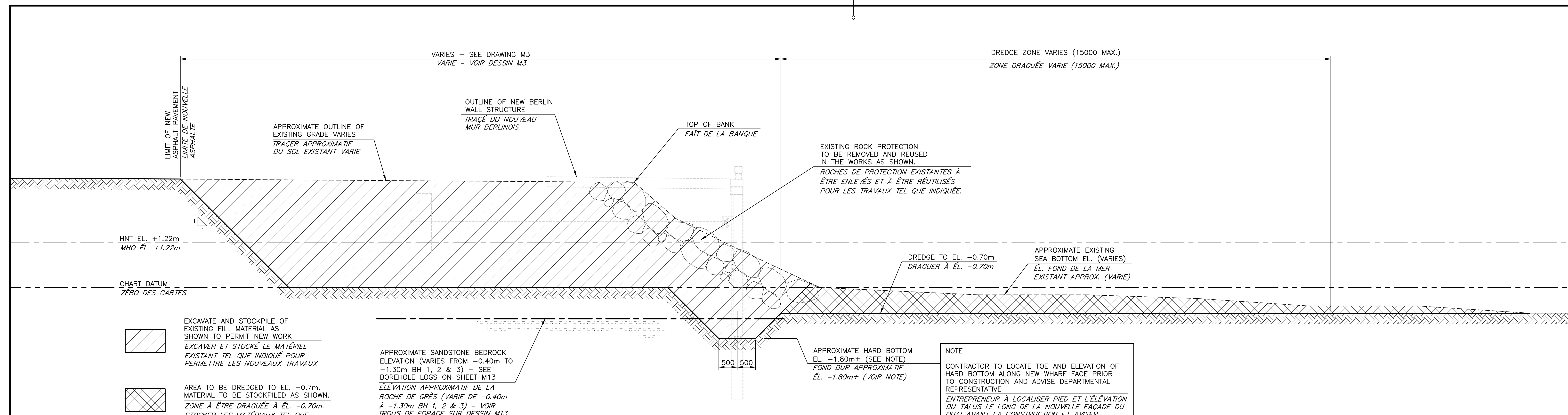
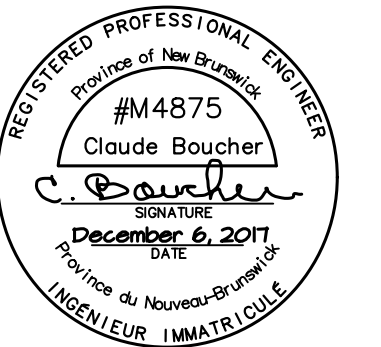
NEW MARGINAL WHARF / NOUVEAU QUAI MARGINAL
 STRUCTURE 403
 CAP des CAISSIE, NB
 COMITÉ DE KENT COUNTY

EXISTING SITE PLAN / PLAN DU SITE EXISTANT

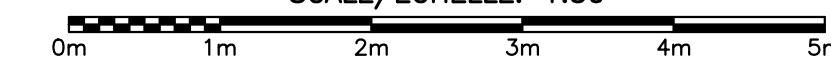
designed BY BOUCHER CONSTRUCTION LTD/ conçu
 date SEPTEMBER/SEPTEMBRE 2017
 drawn P. LEBLANC dessiné
 date SEPTEMBER/SEPTEMBRE 2017

approved
 date
 Tender / Soumission
 Project Manager / Administrateur de projets
 project number no. du projet
 722234
 drawing no. no. du dessin
 M1 of/de M12

E-DRM/GDD-E: 552390 Version 1



**EXISTING SECTION
 COUPE EXISTANTE**
 SCALE/ÉCHELLE: 1:50

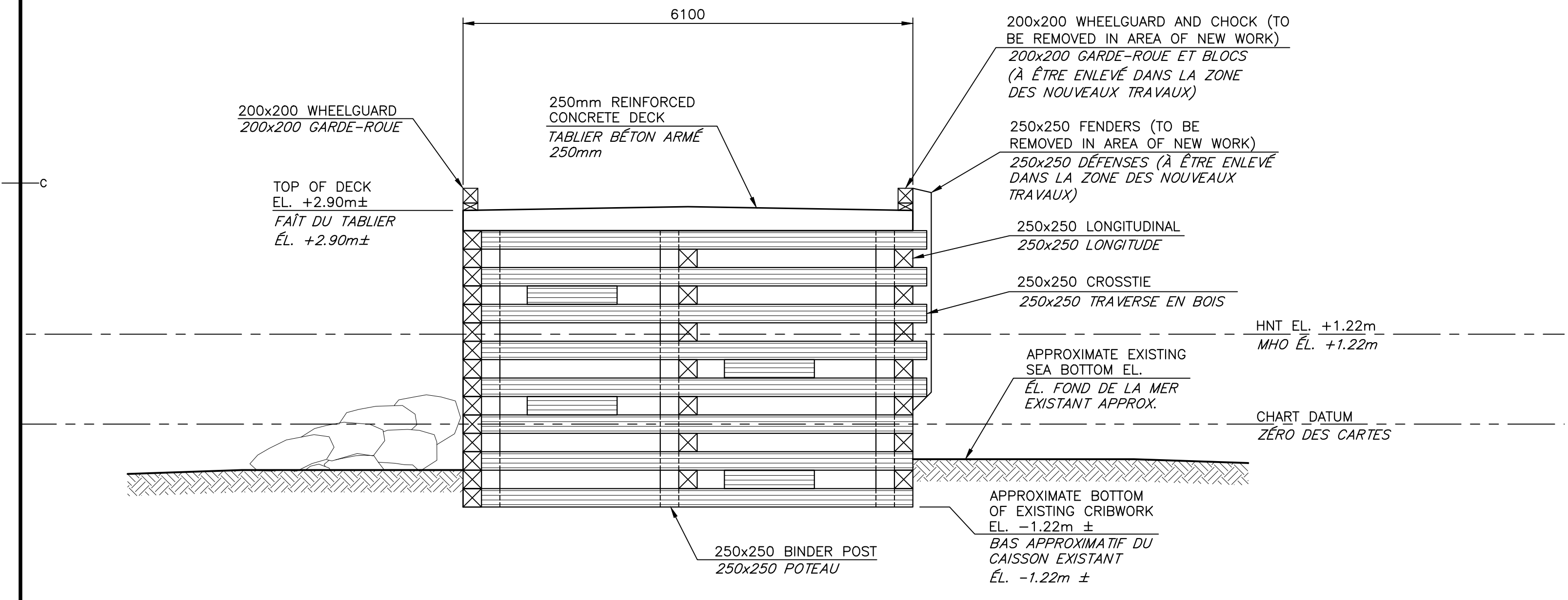


NOTE
 CONTRACTOR TO LOCATE TOE AND ELEVATION OF HARD BOTTOM ALONG NEW WHARF FACE PRIOR TO CONSTRUCTION AND ADVISE DEPARTMENTAL REPRESENTATIVE
 ENTREPRENEUR À LOCALISER PIED ET L'ÉLEVATION DU TALUS LE LONG DE LA NOUVELLE FAÇADE DU QUAI AVANT LA CONSTRUCTION ET AVISER REPRÉSENTANT MINISTÉRIEL

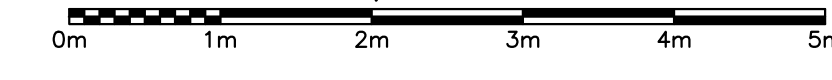
EXCAVATE AND STOCKPILE OF EXISTING FILL MATERIAL AS SHOWN TO PERMIT NEW WORK
 EXCAVER ET STOCKER LE MATÉRIEL EXISTANT TEL QUE INDIQUÉ POUR PERMETTRE LES NOUVEAUX TRAVAUX

AREA TO BE DREDGED TO EL. -0.7m. MATERIAL TO BE STOCKPILED AS SHOWN.
 ZONE À ÊTRE DRAGUÉE À ÉL. -0.70m. STOCKER LES MATÉRIAUX TEL QUE INDIQUÉ.

APPROXIMATE SANDSTONE BEDROCK ELEVATION (VARIES FROM -0.40m TO -1.30m BH 1, 2 & 3) - SEE BOREHOLE LOGS ON SHEET M13
 ÉLEVATION APPROXIMATIVE DE LA ROCHE DE GRÈS (VARIE DE -0.40m À -1.30m BH 1, 2 & 3) - VOIR TROUS DE FORAGE SUR DESSIN M13



**EXISTING SECTION
 COUPE EXISTANTE**
 SCALE/ÉCHELLE: 1:50



1	FOR TENDER / POUR SOUMISSION	DEC 5 2017
revisions		date

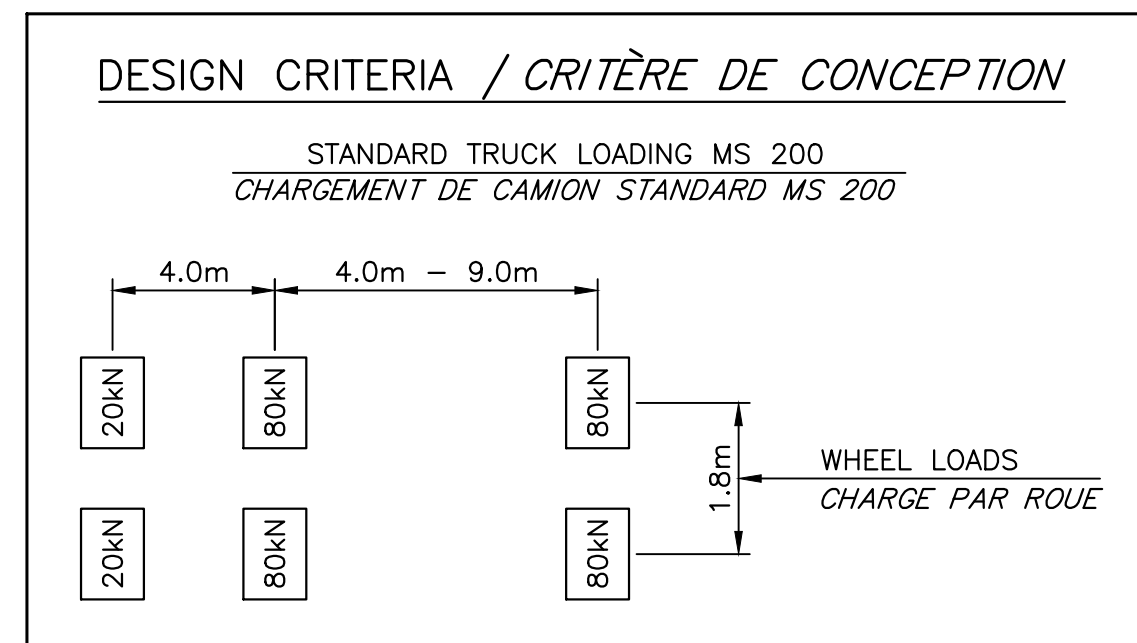
**NEW MARGINAL WHARF
 NOUVEAU QUAI MARGINAL**
 STRUCTURE 403
CAP des CAISSIE, NB
 COMTÉ DE KENT COUNTY

**EXISTING SECTIONS
 COUPES EXISTANTES**

designed BY BOUCHER CONSTRUCTION LTD./conçu
 date SEPTEMBER/SEPTEMBRE 2017
 drawn P. LEBLANC dessiné
 date SEPTEMBER/SEPTEMBRE 2017

approved
 date
 Tender Submission
 Project Administrator
 project number no. du projet
722234

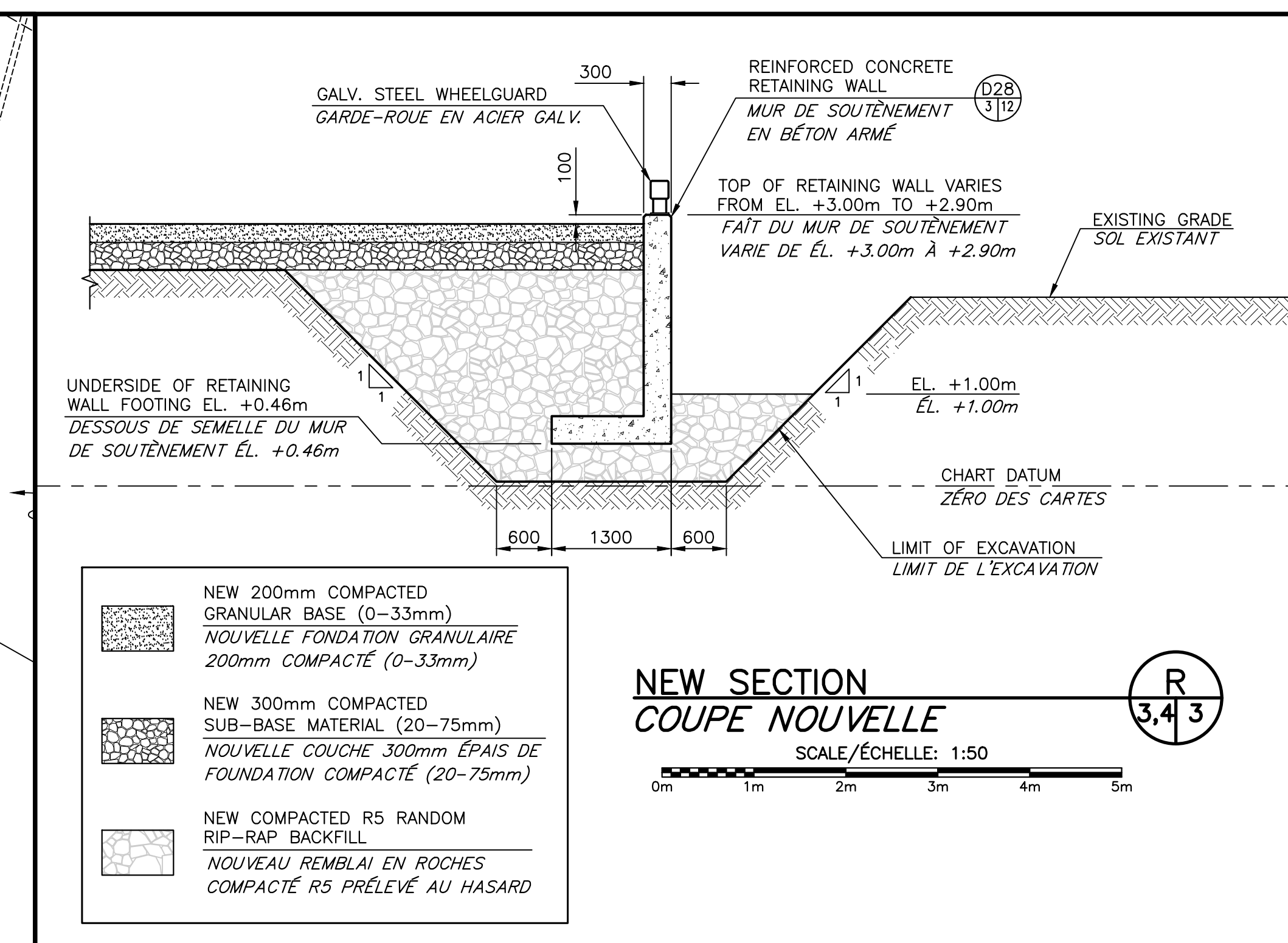
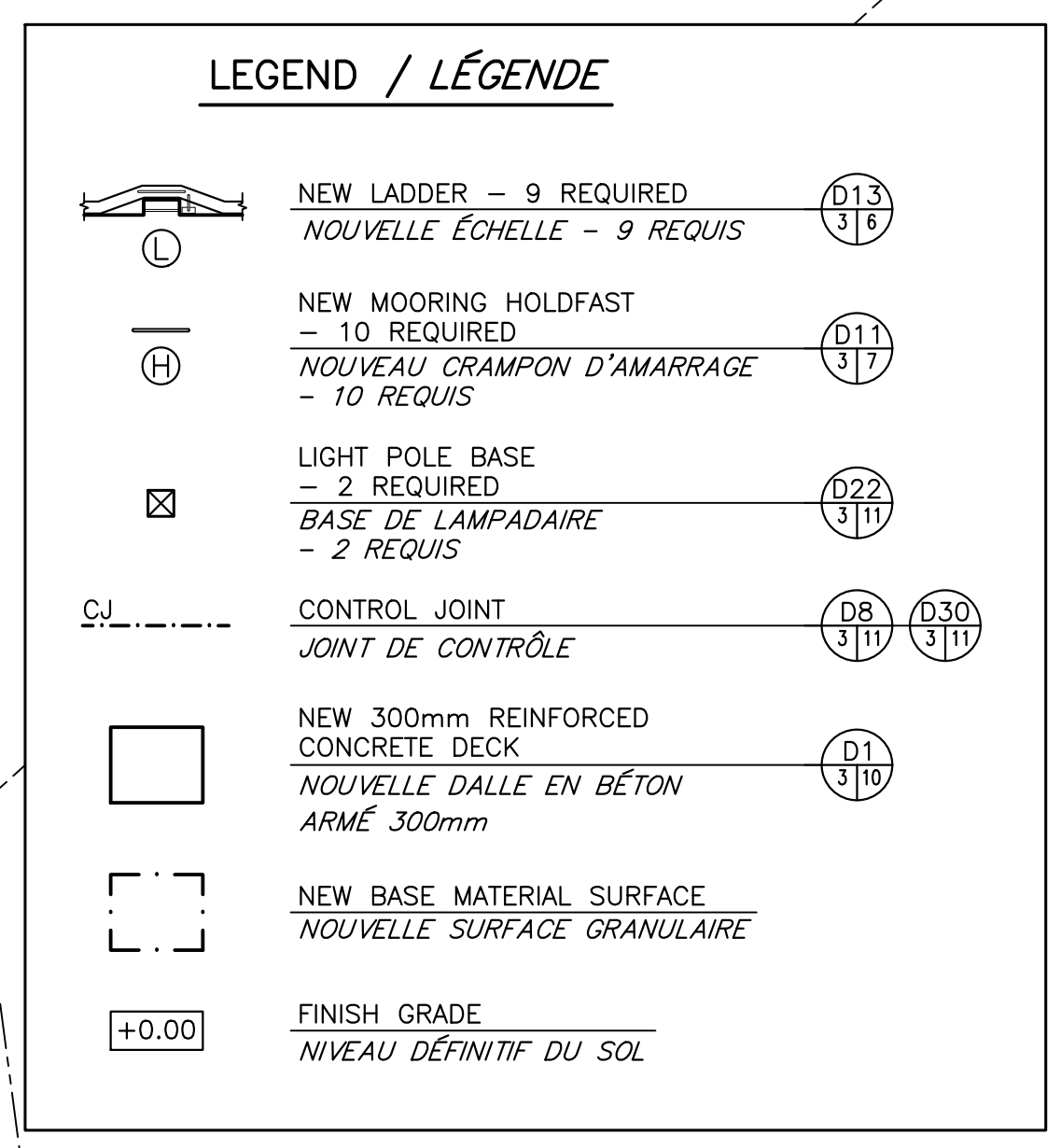
drawing no. no. du dessin
M2 of/de M12



NOTE

1 - CONTRACTOR TO TAKE FIELD ELEVATIONS AND PROVIDE DEPARTMENTAL REPRESENTATIVE WITH PROPOSED FINISH GRADES FOR REVIEW AND APPROVAL - RESHAPE AND COMPACT EXISTING MATERIALS TO ACHIEVE POSITIVE DRAINAGE. SEE PROPOSED DRAINAGE PLAN ON DRAWING C1.

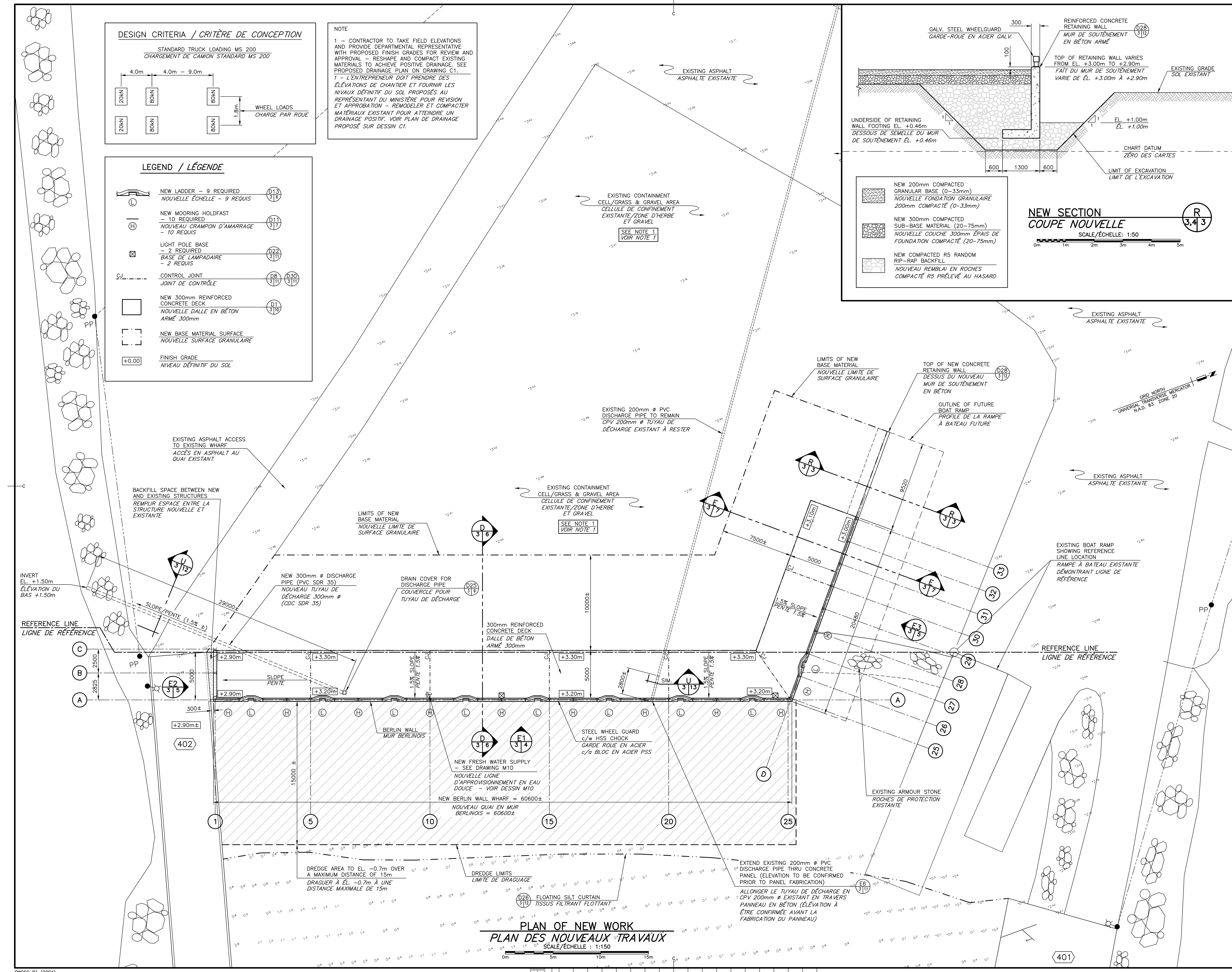
1 - L'ENTREPRENEUR DOIT PRENDRE DES ÉLEVATIONS DE CHANTIER ET FOURNIR LES NIVEAUX DÉFINITIF DU SOL PROPOSÉS AU REPRÉSENTANT DU MINISTÈRE POUR REVISION ET APPROBATION - REMODELER ET COMPACTER MATÉRIAUX EXISTANT POUR ATTEINDRE UN DRAINAGE POSITIF. VOIR PLAN DE DRAINAGE PROPOSÉ SUR DESSIN C1.



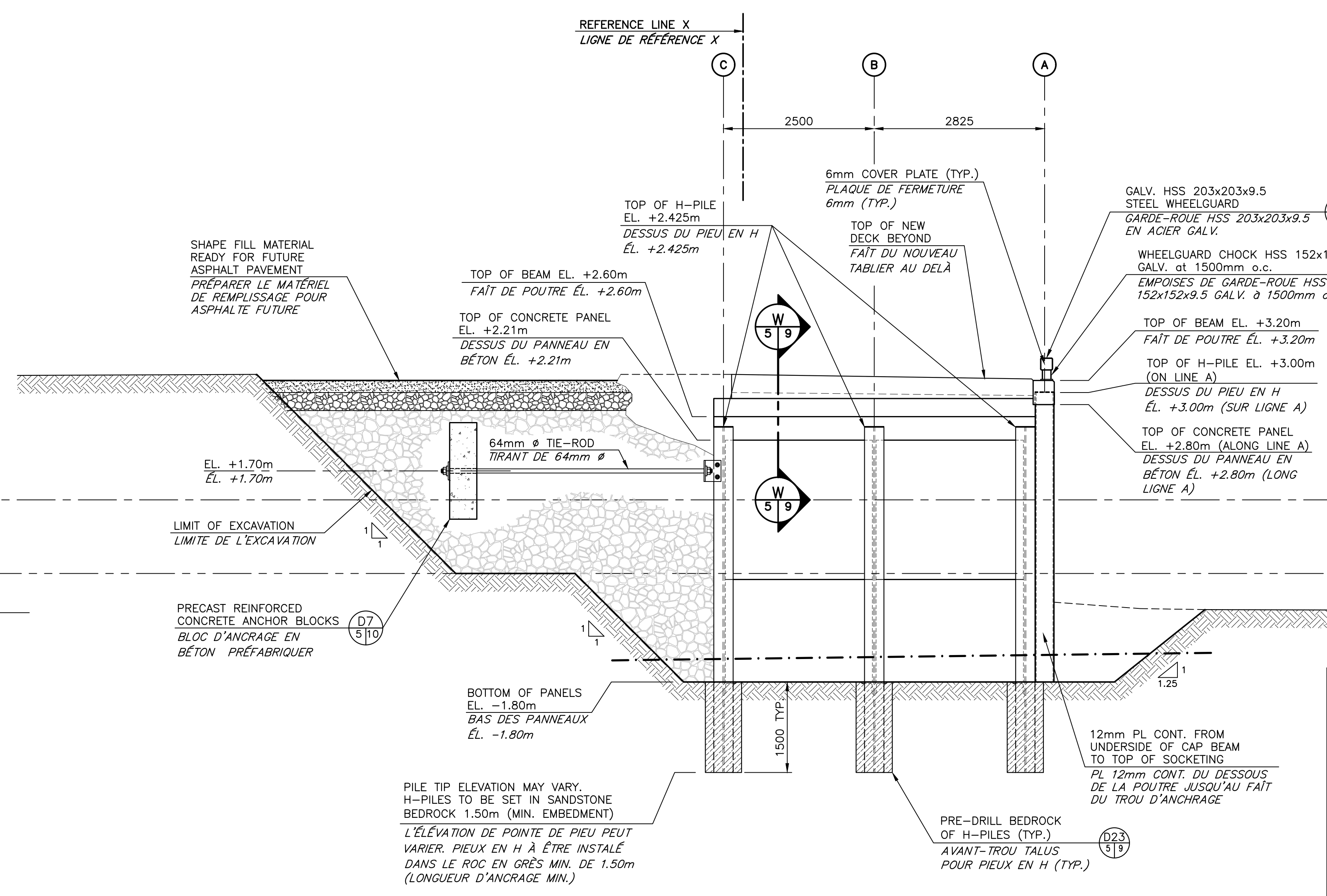
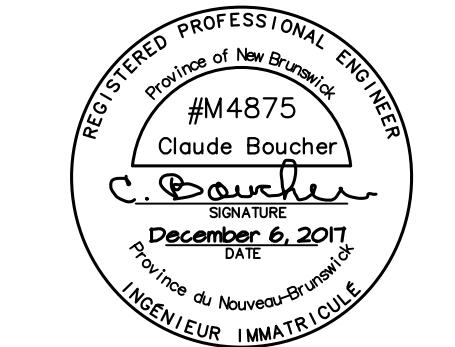
Public Works and Government Services
Travaux Publics et Services gouvernementaux
Canada

Boucher Eng. & Const. Ltd.
Upper Reston, N.B.

REGISTERED PROFESSIONAL ENGINEER
#4875
Claude Boucher
December 6, 2017
Province of New Brunswick
Ingénieur Immobilier

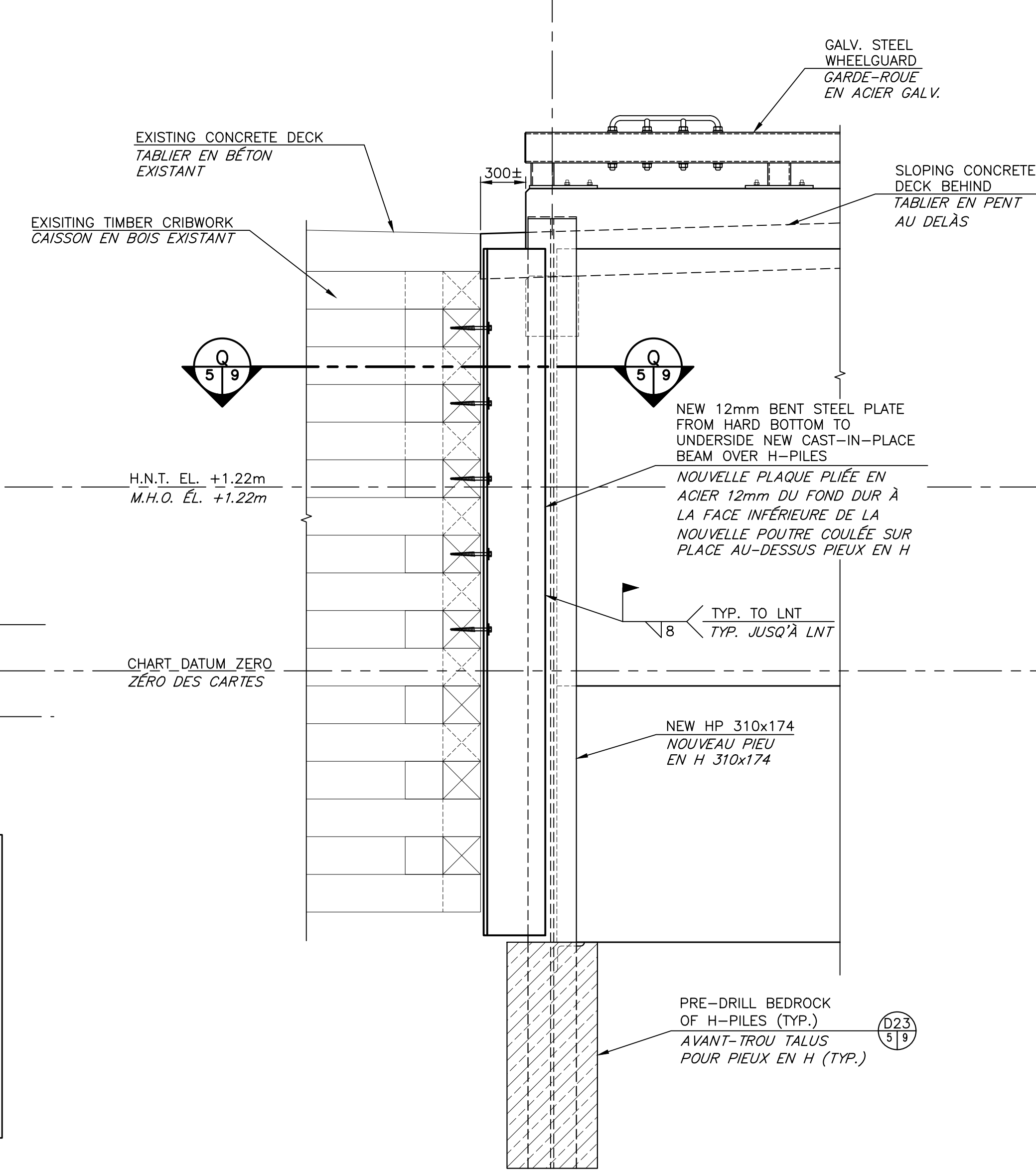


1	FOR TENDER / POUR SOUMISSION	DEC 6 2017
revisions		date
project		project
NEW MARGINAL WHARF NOUVEAU QUAI MARGINAL STRUCTURE 403 CAP des CAISSIE, NB COMITÉ DE KENT COUNTY		
drawing		dessin
PLAN OF NEW WORK PLAN DES NOUVEAUX TRAVAUX		
designed by	BOUCHER CONSTRUCTION LTD	conçu
date	SEPTEMBER/SEPTEMBRE 2017	date
drawn	P. LEBLANC	dessiné
date	SEPTEMBER/SEPTEMBRE 2017	date
approved		approuvé
date		date
Tender		Soumission
Project Manager		Administrateur de projets
project number		no. du projet
	722234	
drawing no.		no. du dessin
	M3 of/de M12	



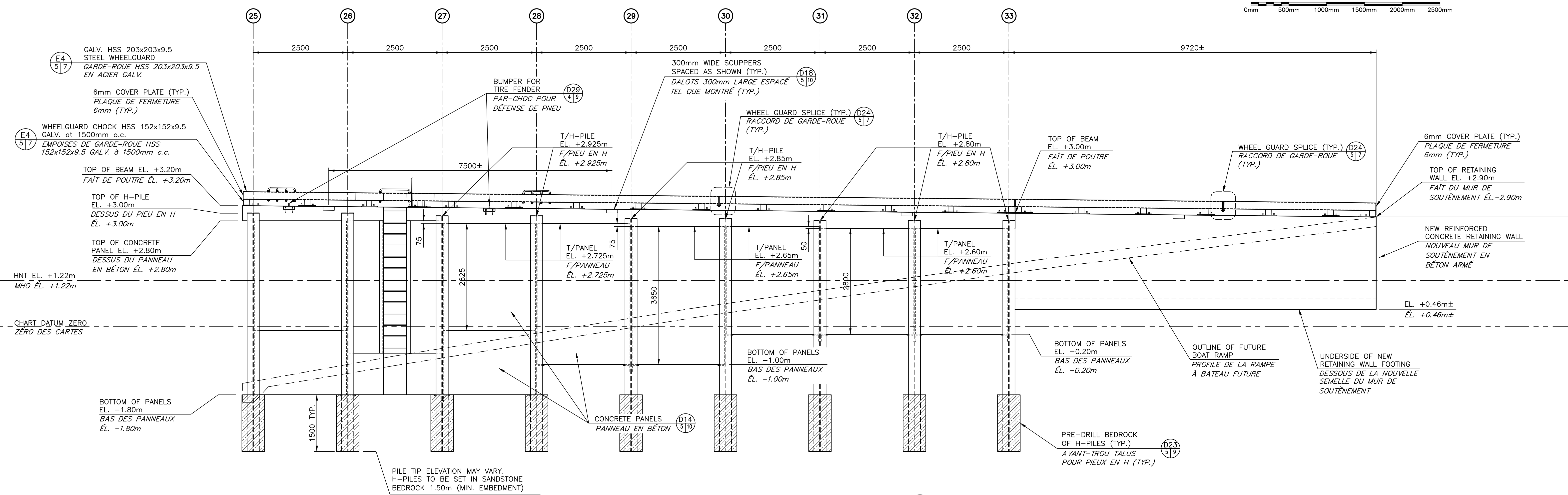
ELEVATION OF WORK FACE
ÉLEVATION DE LA SURFACE DES TRAVAUX

SCALE/ÉCHELLE: 1:50



CORNER ELEVATION
ÉLEVATION DE COIN

SCALE/ÉCHELLE: 1:25



ELEVATION OF WORK FACE
ÉLEVATION DE LA SURFACE DES TRAVAUX

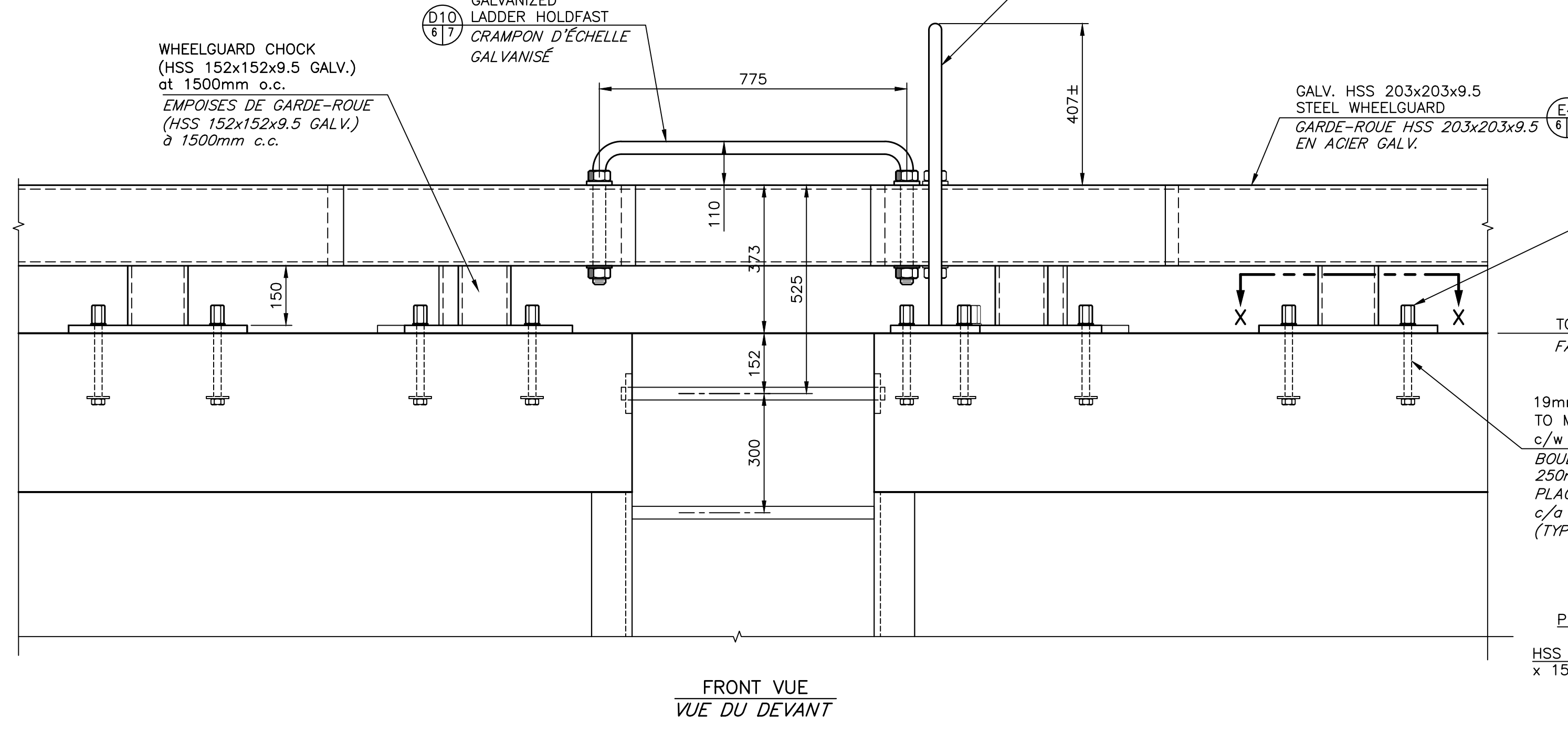
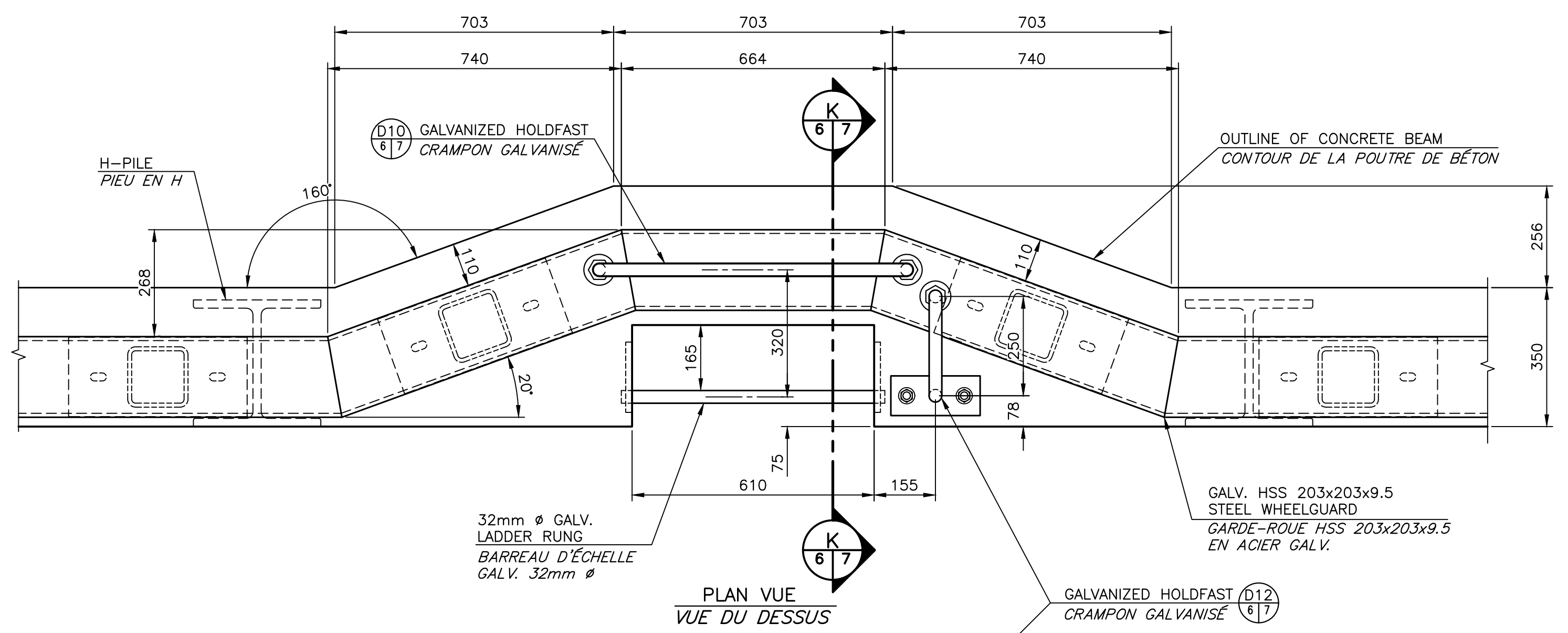
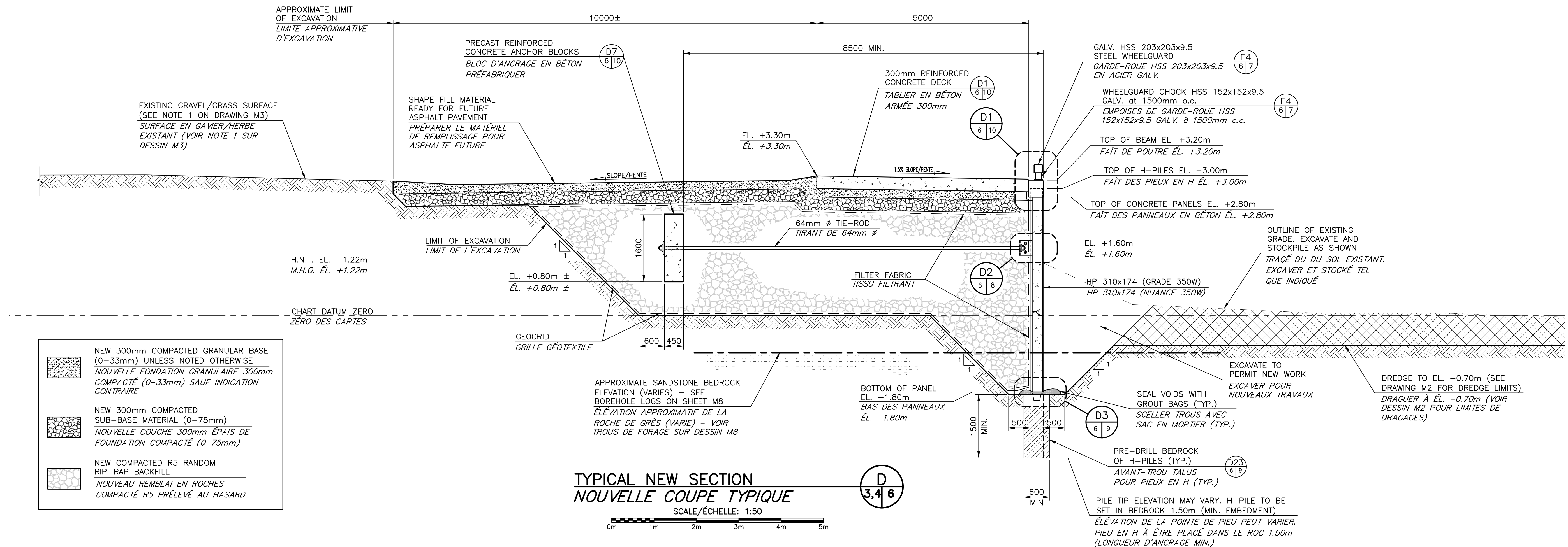
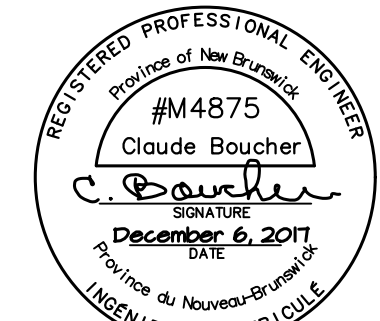
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1	FOR TENDER / POUR SOUMISSION	DEC 5 2017
revisions		date

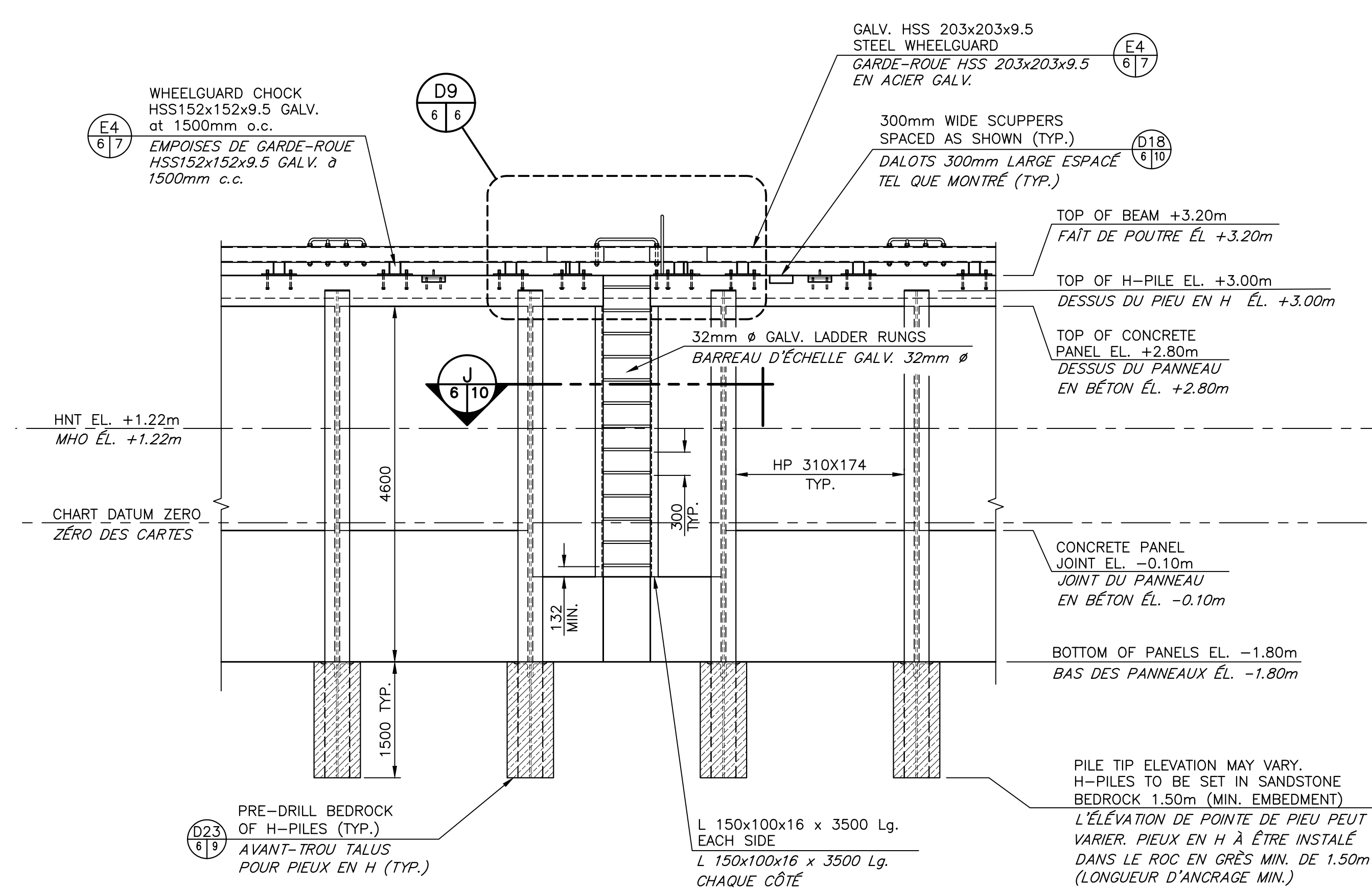
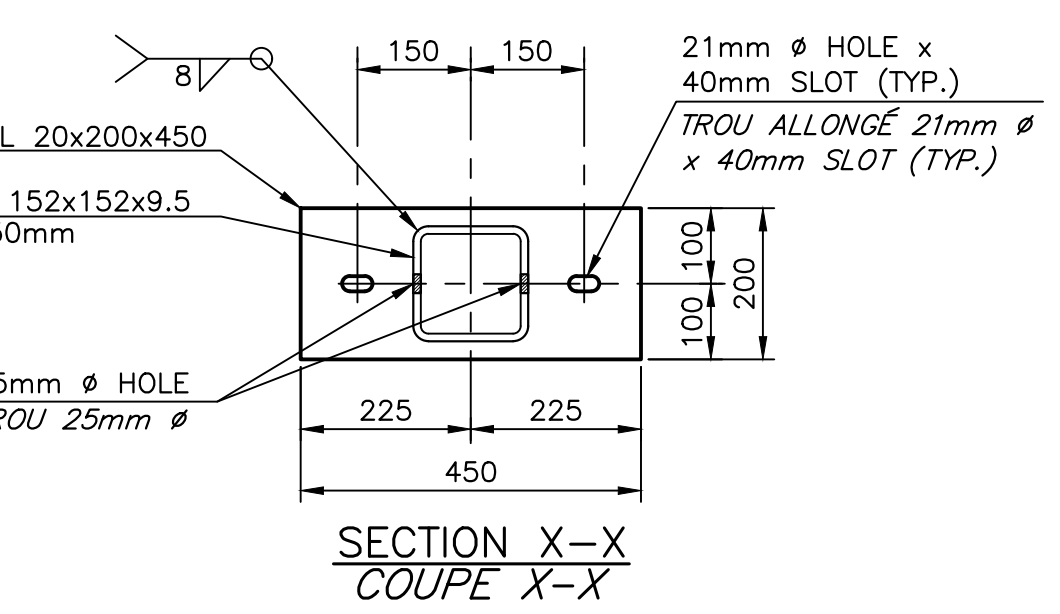
NEW MARGINAL WHARF
NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE, NB
COMITÉ DE KENT COUNTY

ELEVATIONS
ÉLEVATIONS

designed by	BOUCHER CONSTRUCTION LTD/CONQ
date	SEPTEMBER/SEPTEMBRE 2017
drawn by	P. LEBLANC
date	SEPTEMBER/SEPTEMBRE 2017
approved	
date	
Tender	Submission
Project Manager	Administrateur de projets
project number	722234
drawing no.	M5 of/de M12



HOLDFAST DETAIL AT LADDERS
DÉTAIL DE CRAMPON AUX ÉCHELLES
SCALE/ÉCHELLE: 1:10



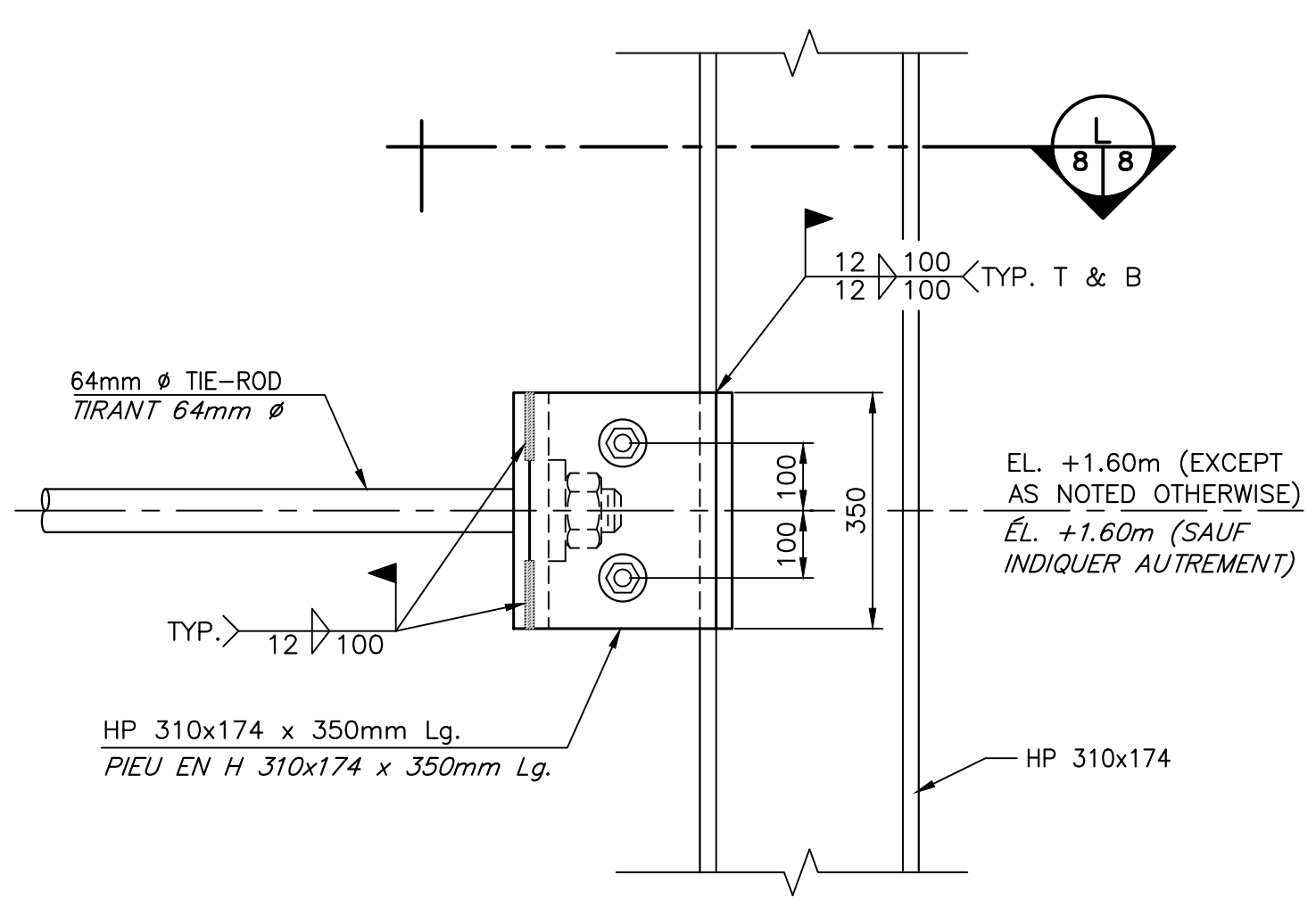
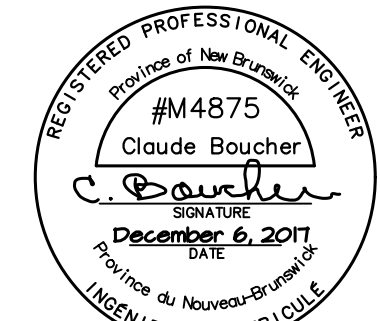
ELEVATION OF LADDER PANEL
ÉLÉVATION DU PANNEAU D'ÉCHELLE
SCALE/ÉCHELLE: 1:50

1	FOR TENDER / POUR SOUMISSION	DEC 5 2017
revisions		date

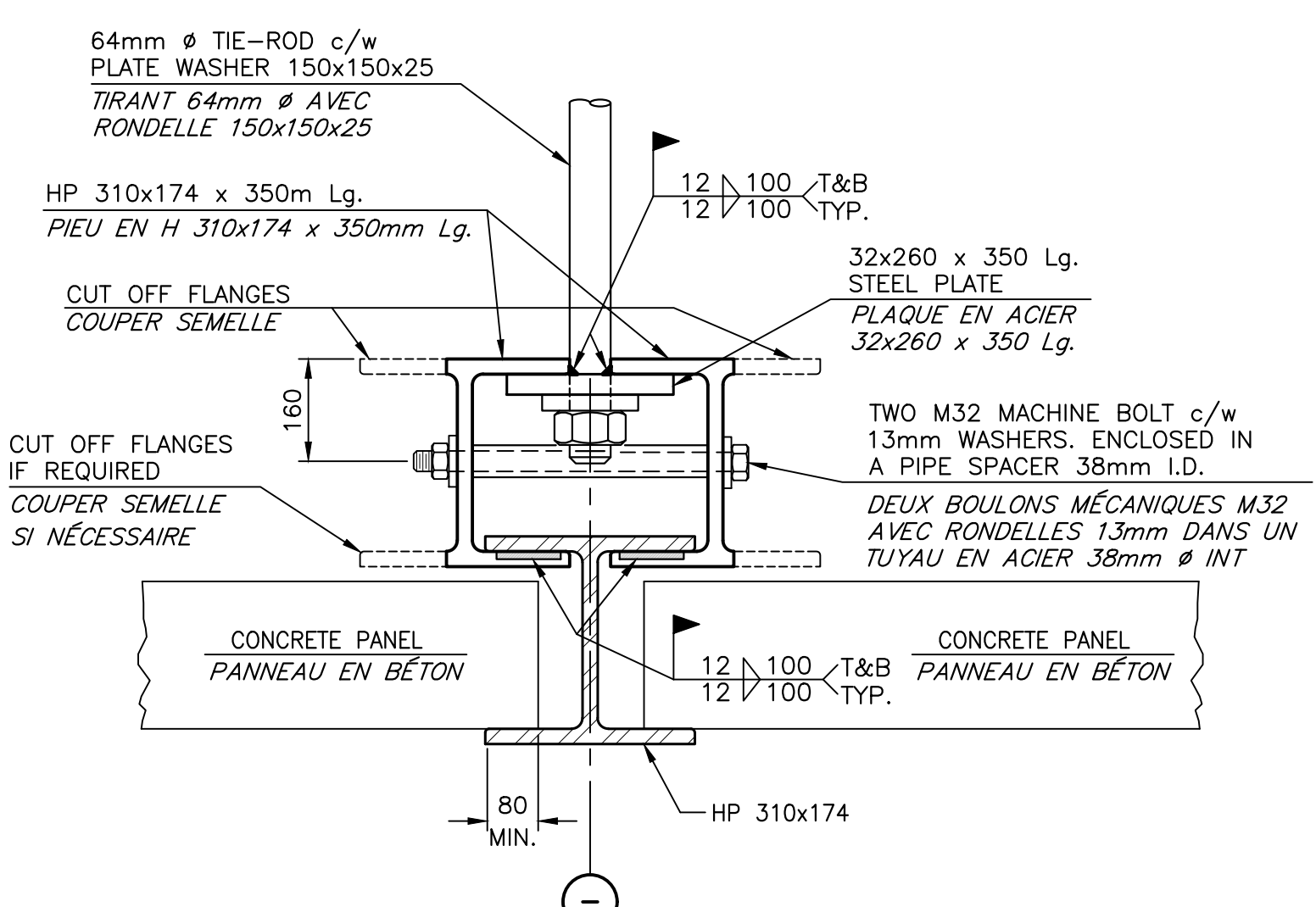
NEW MARGINAL WHARF
NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE, NB
COMITÉ DE KENT COUNTY

SECTIONS AND DETAILS
COUPES ET DÉTAILS

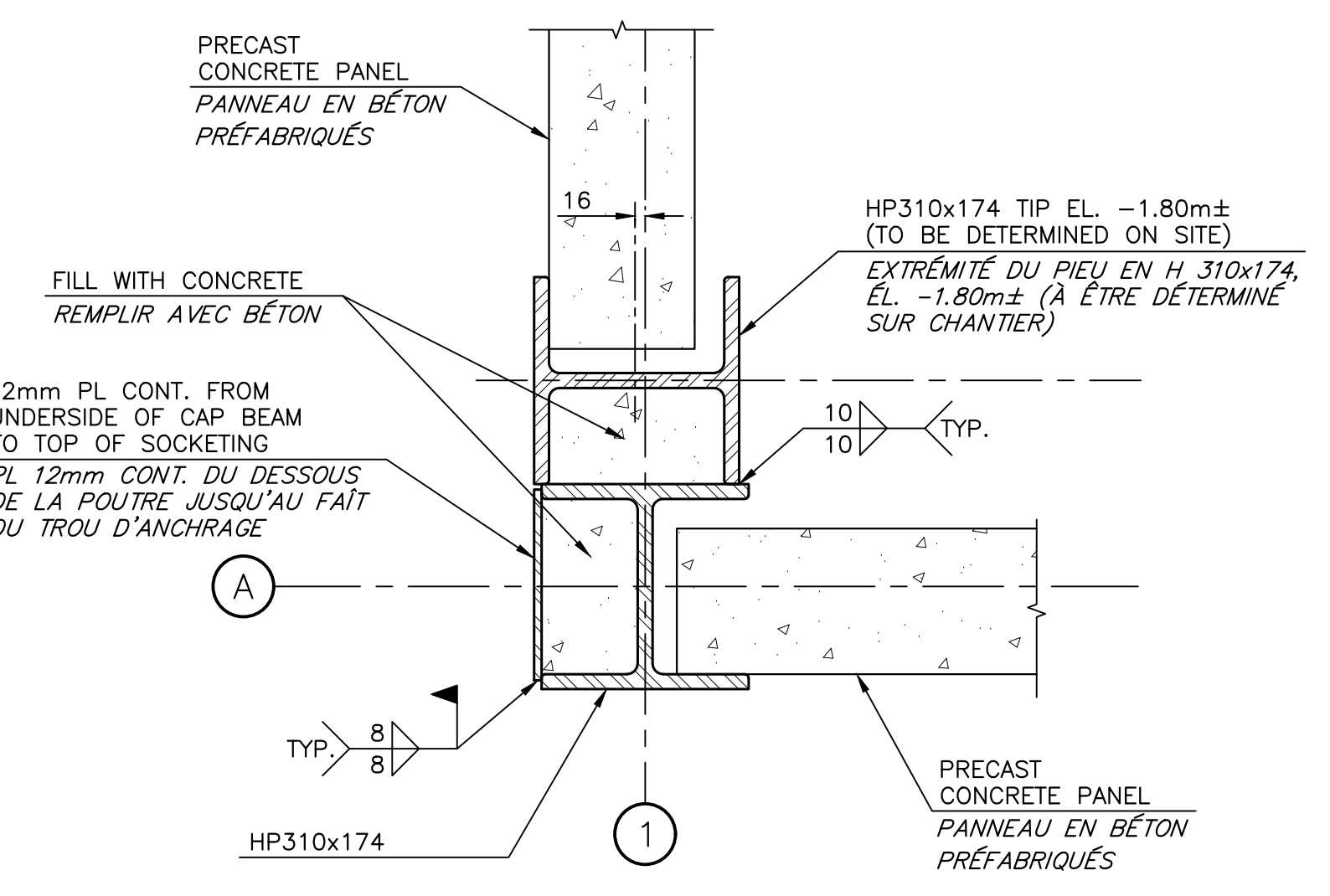
designed BY BOUCHER CONSTRUCTION LTD/ conçu	date	SEPTEMBER/SEPTEMBRE 2017
drawn P. LEBLANC	date	SEPTEMBER/SEPTEMBRE 2017
approved	date	
Tender	Submission	DEC 6, 2017
Project Manager	Administrateur de projets	
project number	no. du projet	722234
drawing no.	no. du dessin	M6 of/de M12



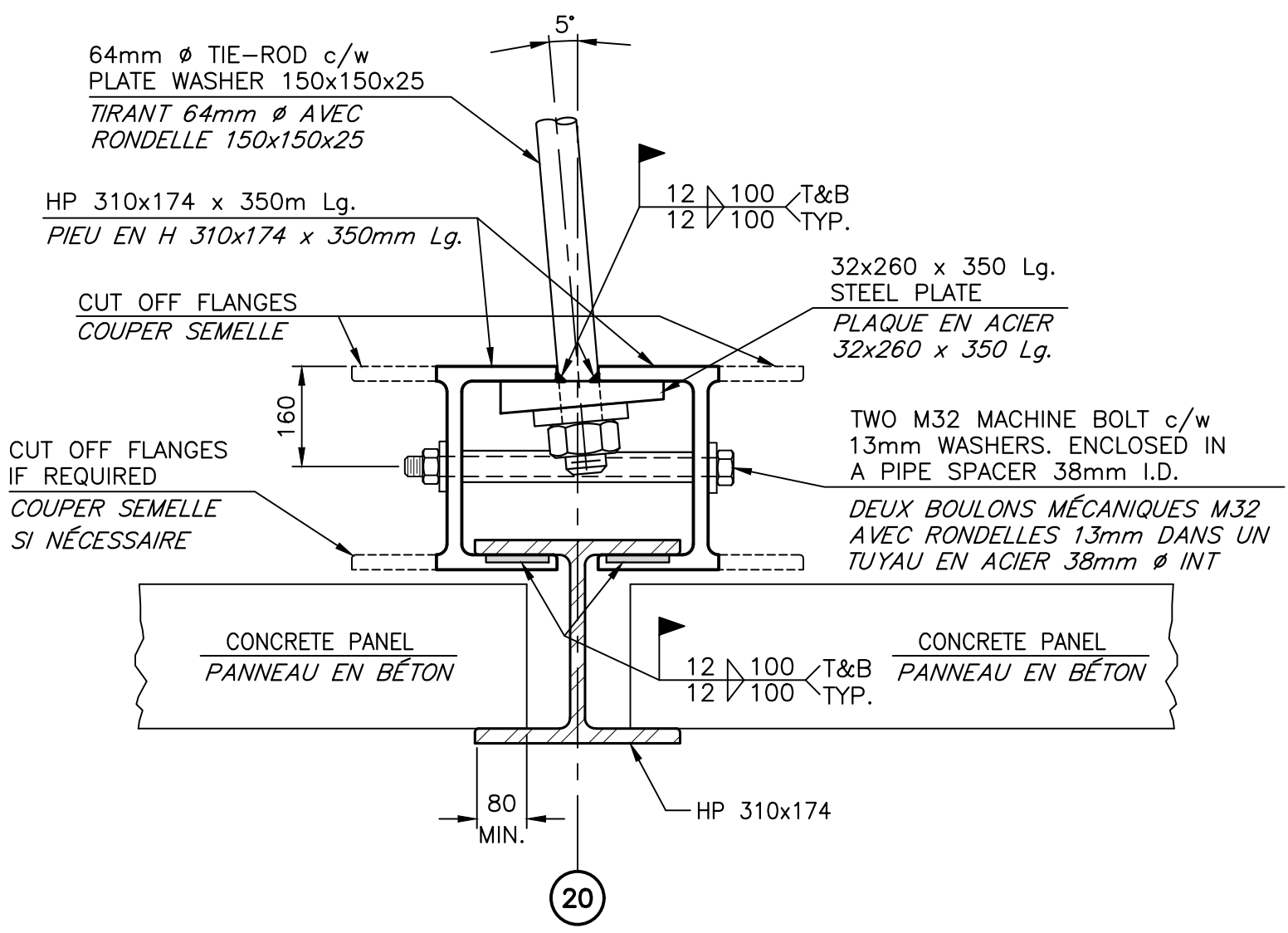
TIE-ROD TO H-PILE CONNECTION DETAIL
DÉTAIL DE CONNEXION DE TIRANT AU PIEU EN H
SCALE/ÉCHELLE: 1:10



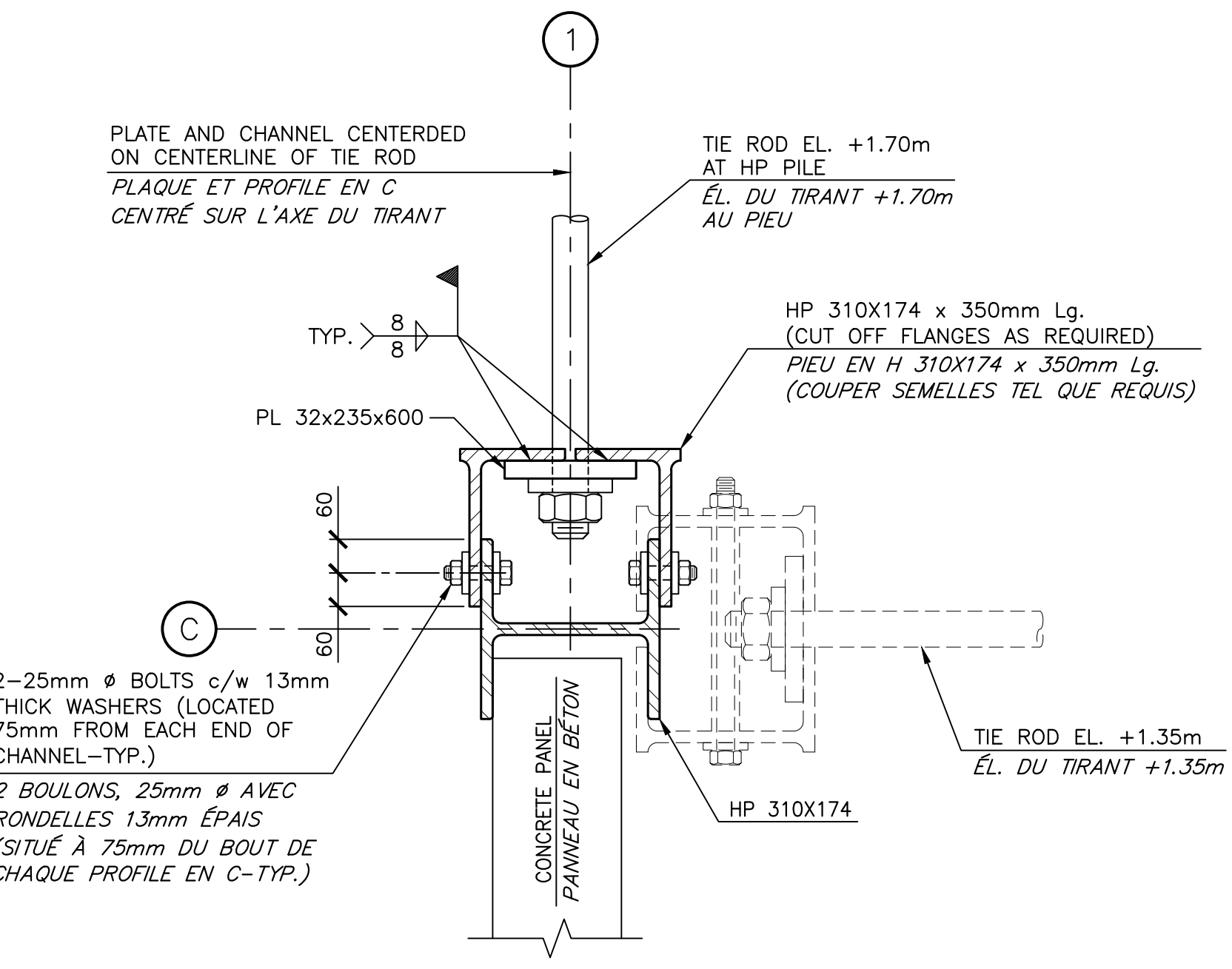
TYPICAL SECTION
COUPE TYPIQUE
SCALE/ÉCHELLE: 1:10



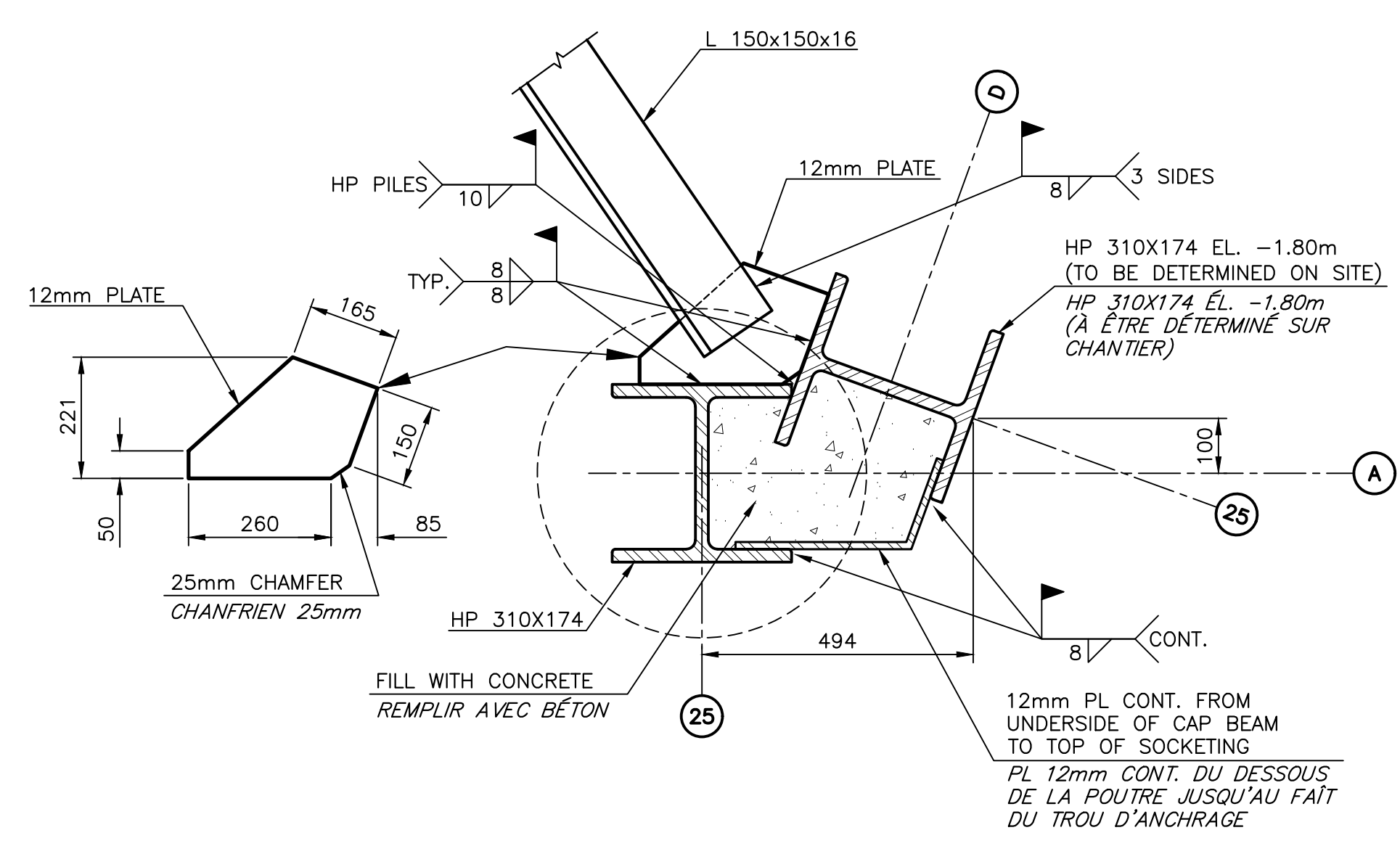
TYPICAL OUTSIDE CORNER DETAIL
DÉTAIL DE COIN EXTÉRIEUR TYPIQUE
SCALE/ÉCHELLE: 1:10



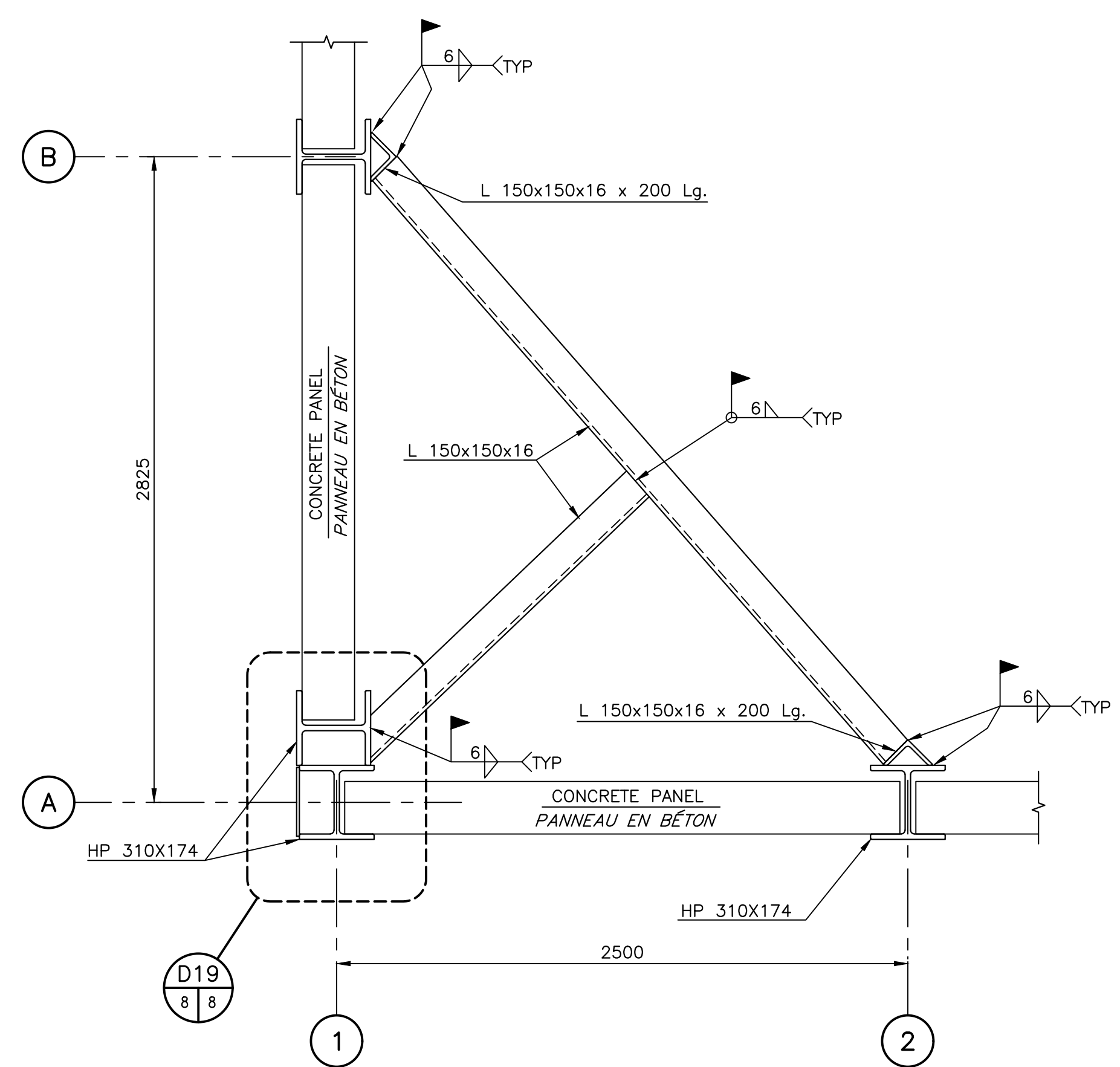
SECTION AT GRIDLINE 20
COUPE A LA LIGNE D'AXE 20
SCALE/ÉCHELLE: 1:10



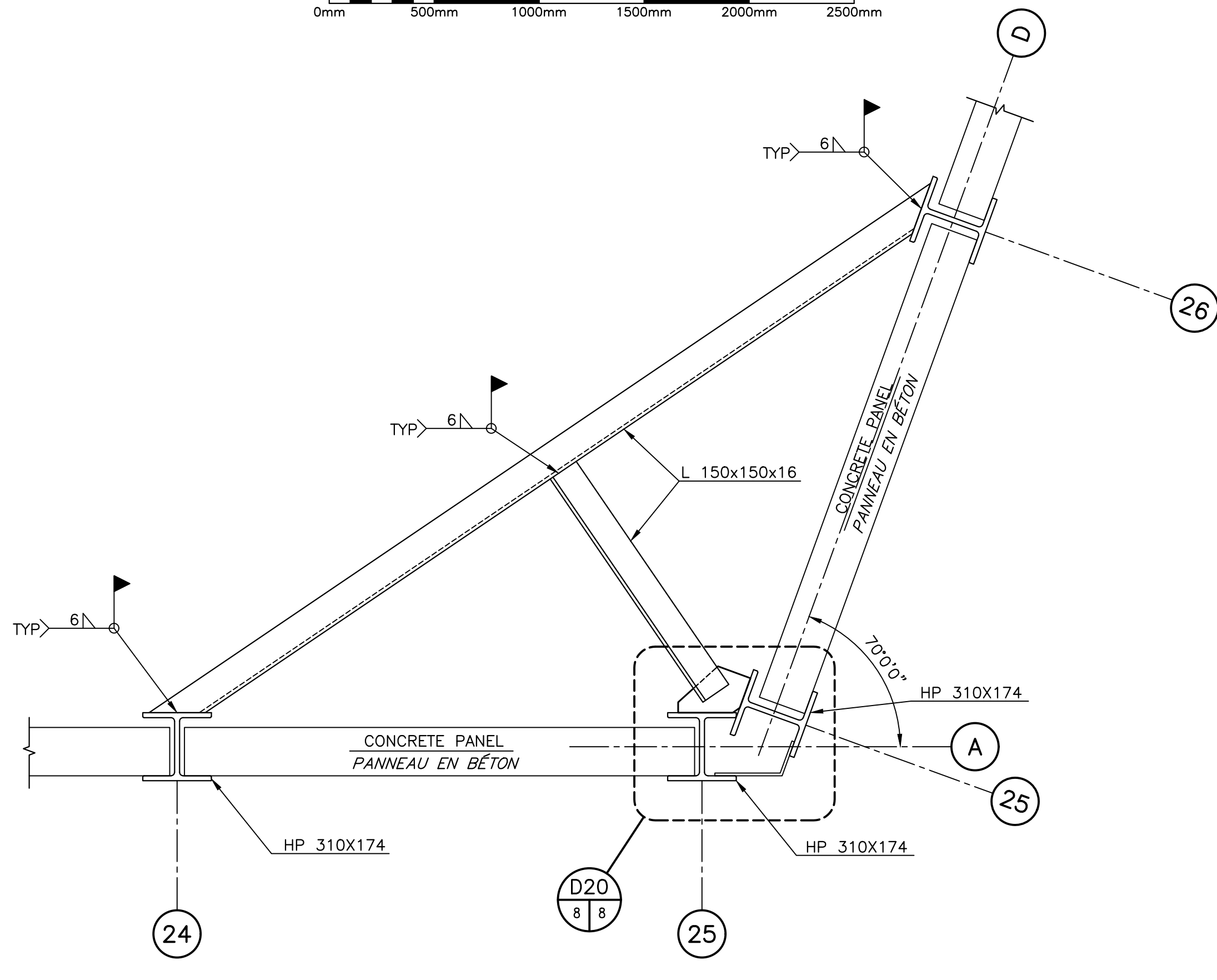
DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:10



DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:10



CORNER BRACE DETAIL at EL. +1.90m
DÉTAIL D'AMARRAGE DE COIN à ÉL. +1.90m
SCALE/ÉCHELLE: 1:20



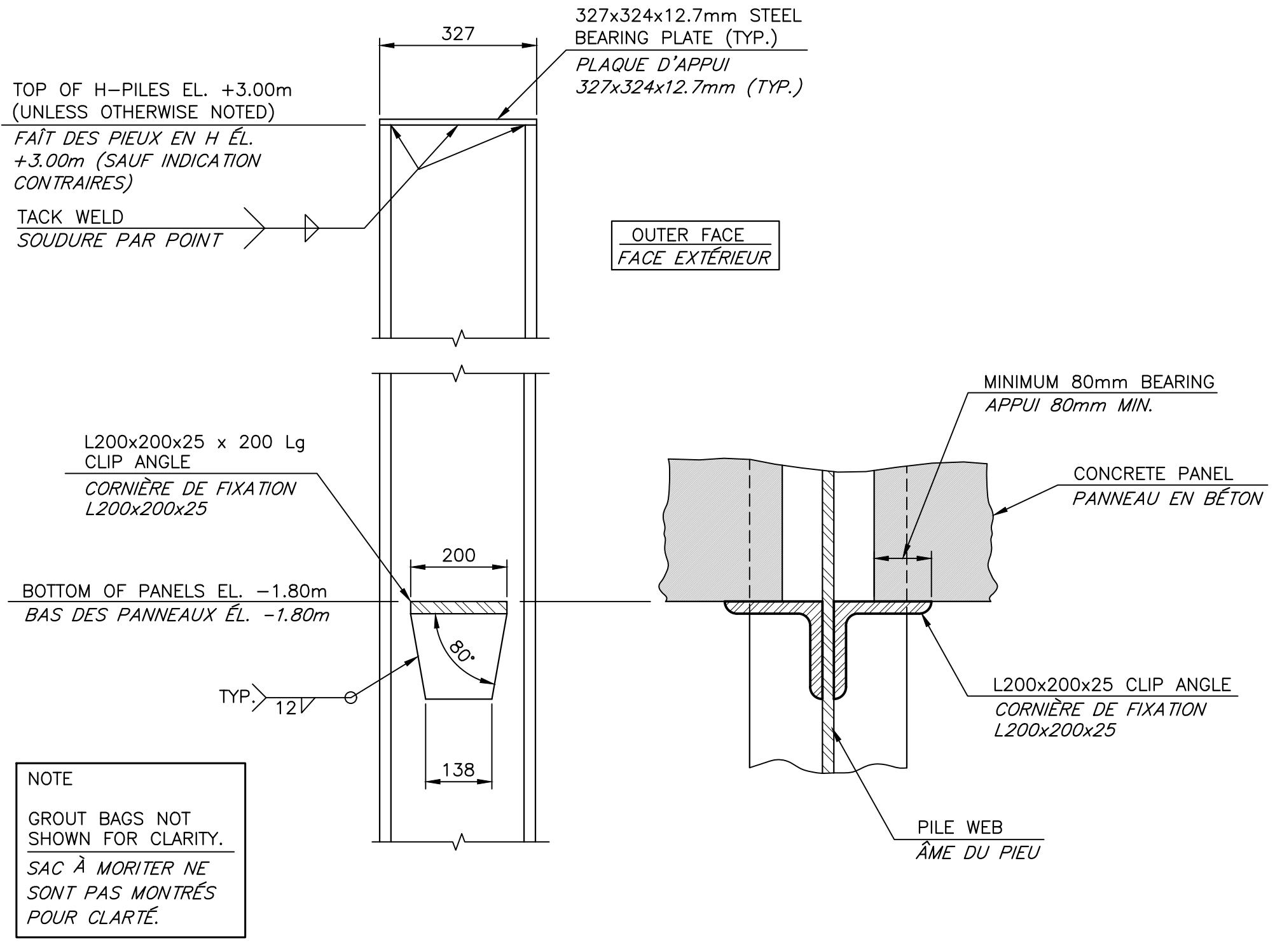
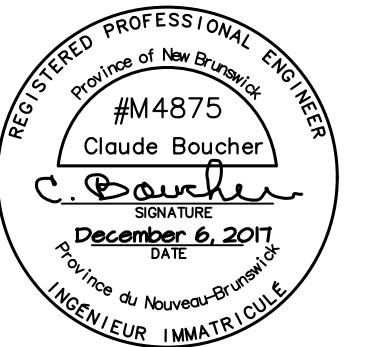
CORNER BRACE DETAIL at EL. +1.35m
DÉTAIL D'AMARRAGE DE COIN à ÉL. +1.35m
SCALE/ÉCHELLE: 1:20

1	FOR TENDER / POUR SOUMISSION	DEC 5 2017
revisions		date
project		project

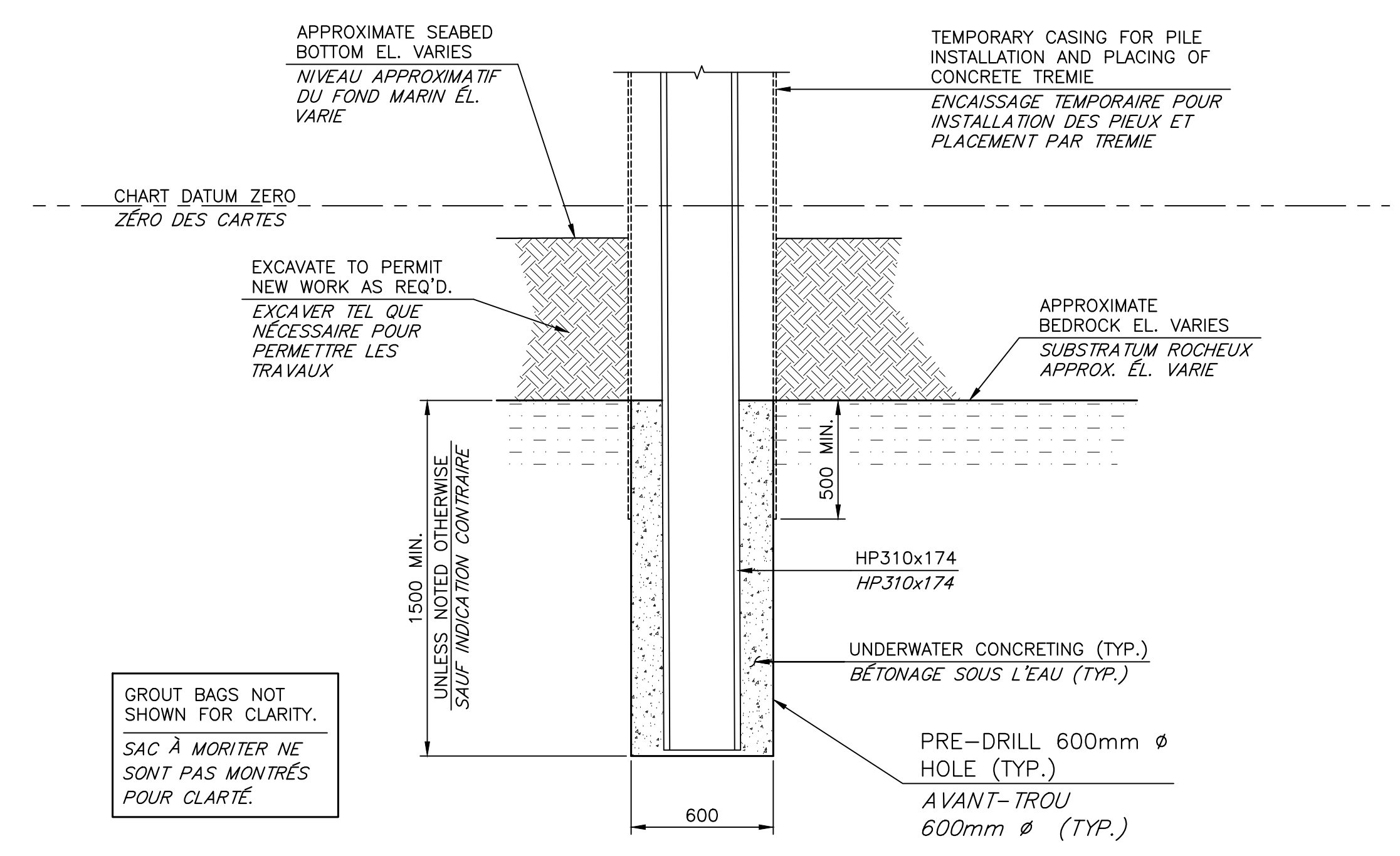
NEW MARGINAL WHARF
NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE, NB
COMTÉ DE KENT COUNTY

SECTIONS AND DETAILS
COUPES ET DÉTAILS

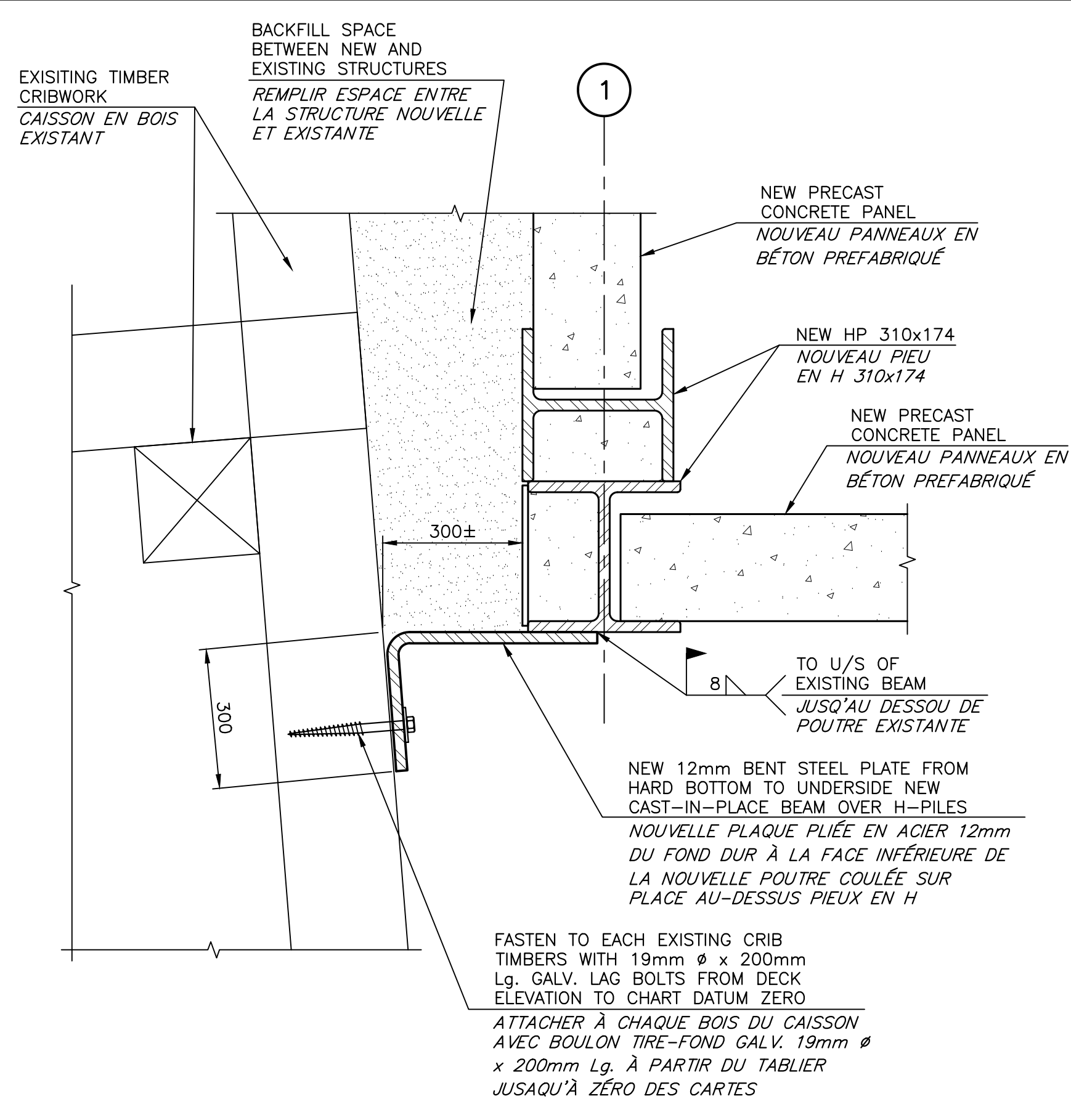
designed BY BOUCHER CONSTRUCTION LTD/ conçu	date	SEPTEMBER/SEPTEMBRE 2017
drawn P. LEBLANC	date	SEPTEMBER/SEPTEMBRE 2017
approved	date	
Tender	Submission	DEC 6, 2017
Project Manager	Administrateur de projets	
project number	no. du projet	722234
drawing no.	no. du dessin	M8 of/de M12



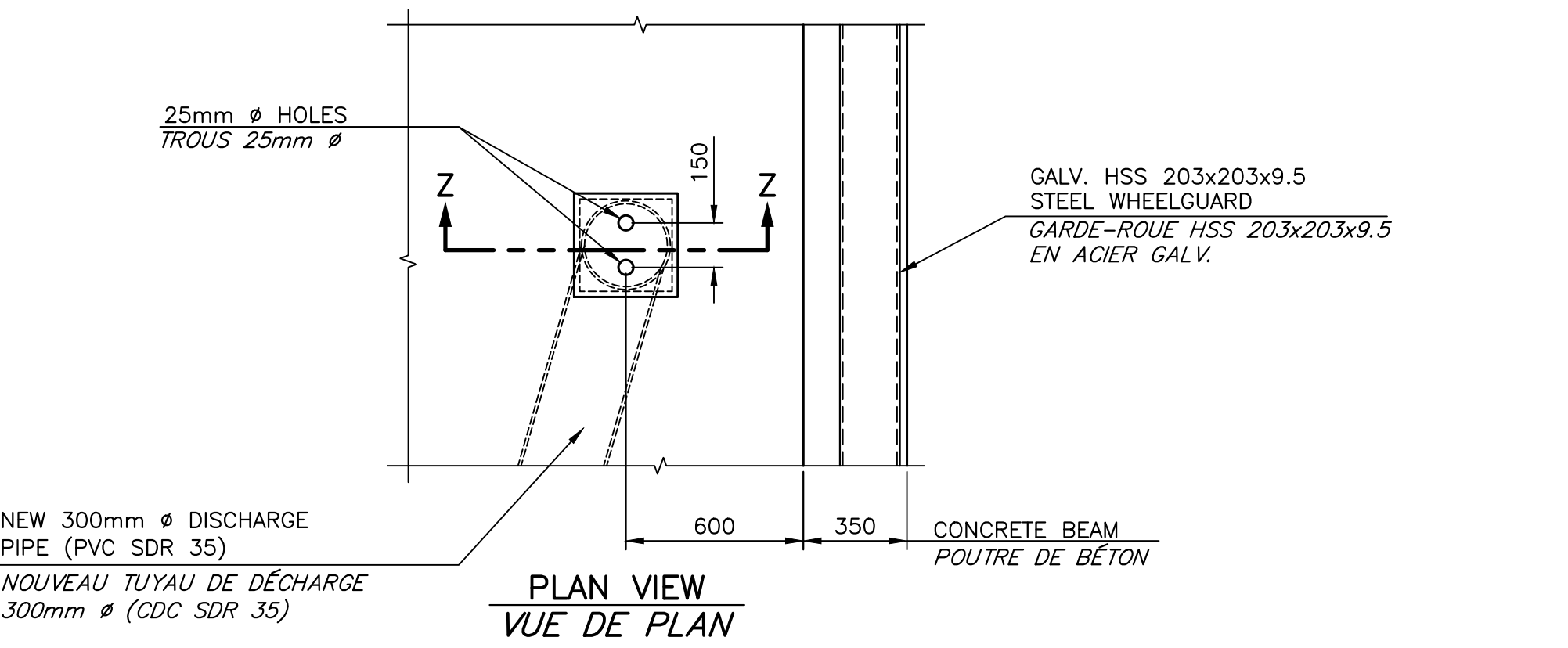
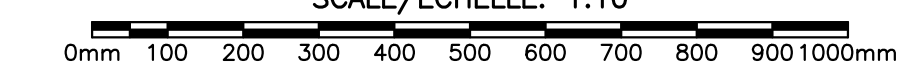
PANEL SUPPORT DETAIL
DÉTAIL DE SUPPORT POUR PANNEAU
SCALE/ÉCHELLE: 1:10



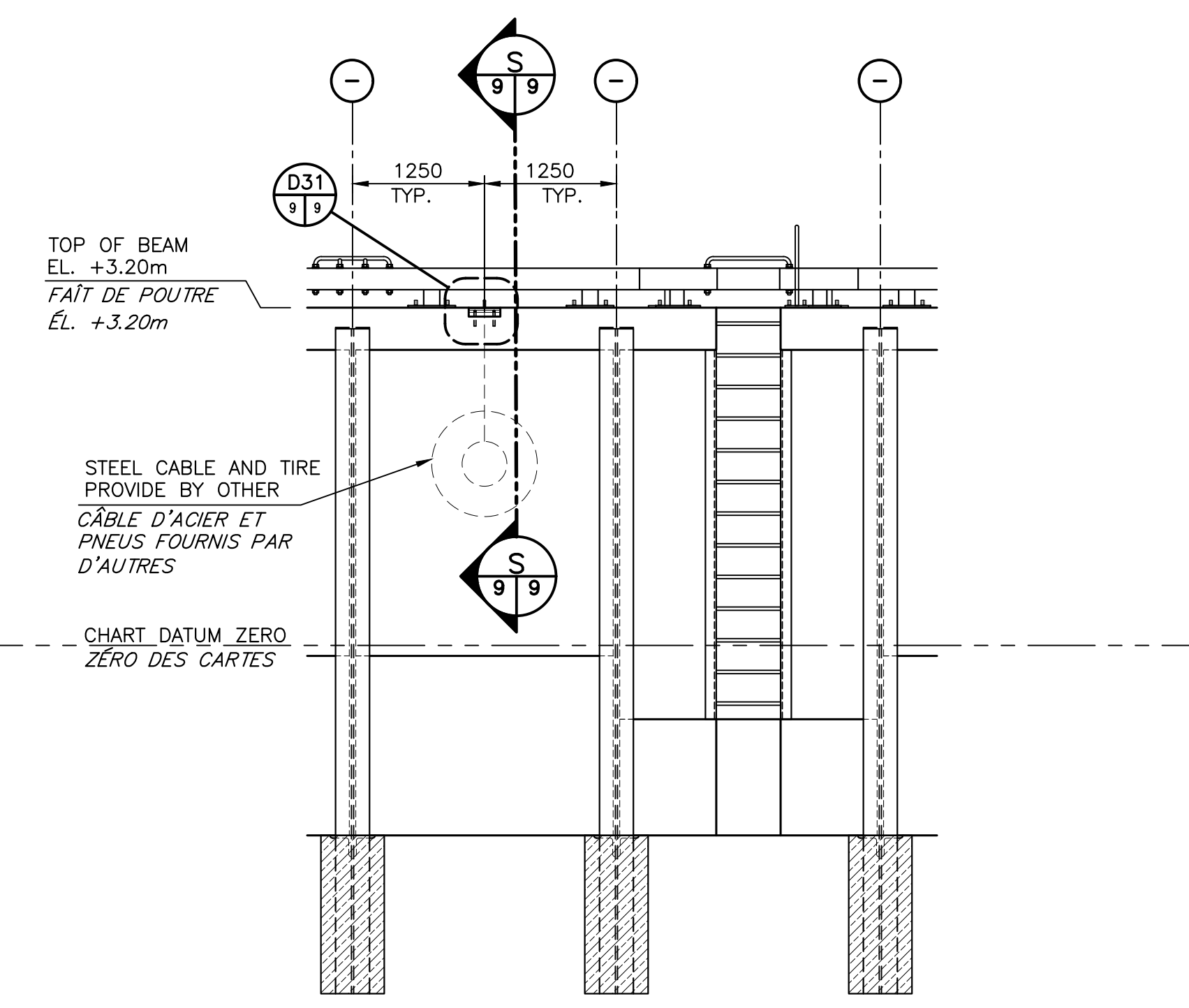
ROCK SOCKETING DETAIL
DÉTAIL DE TROU D'ANCRAGE AU ROC
SCALE/ÉCHELLE: 1:20



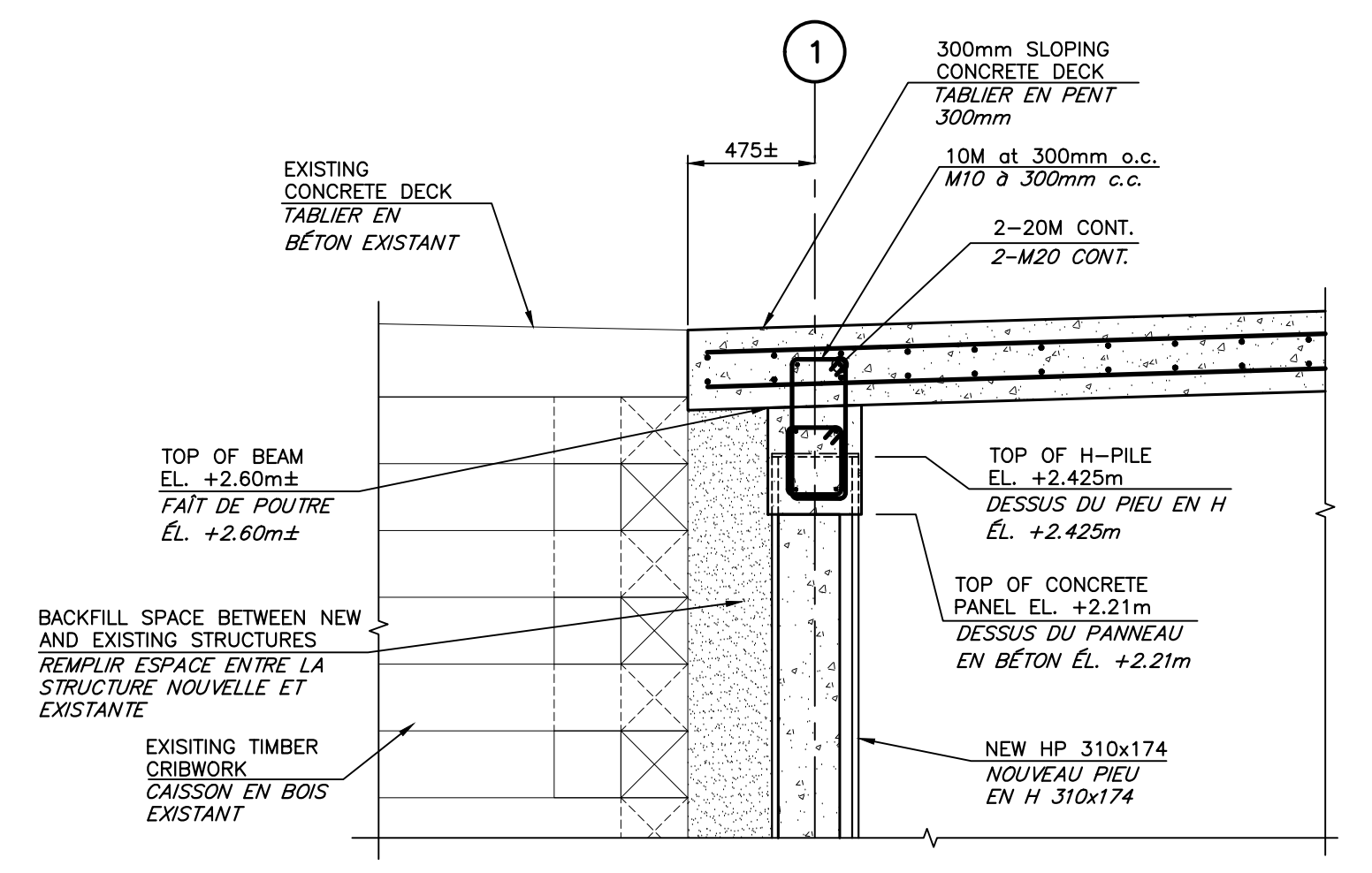
DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:10



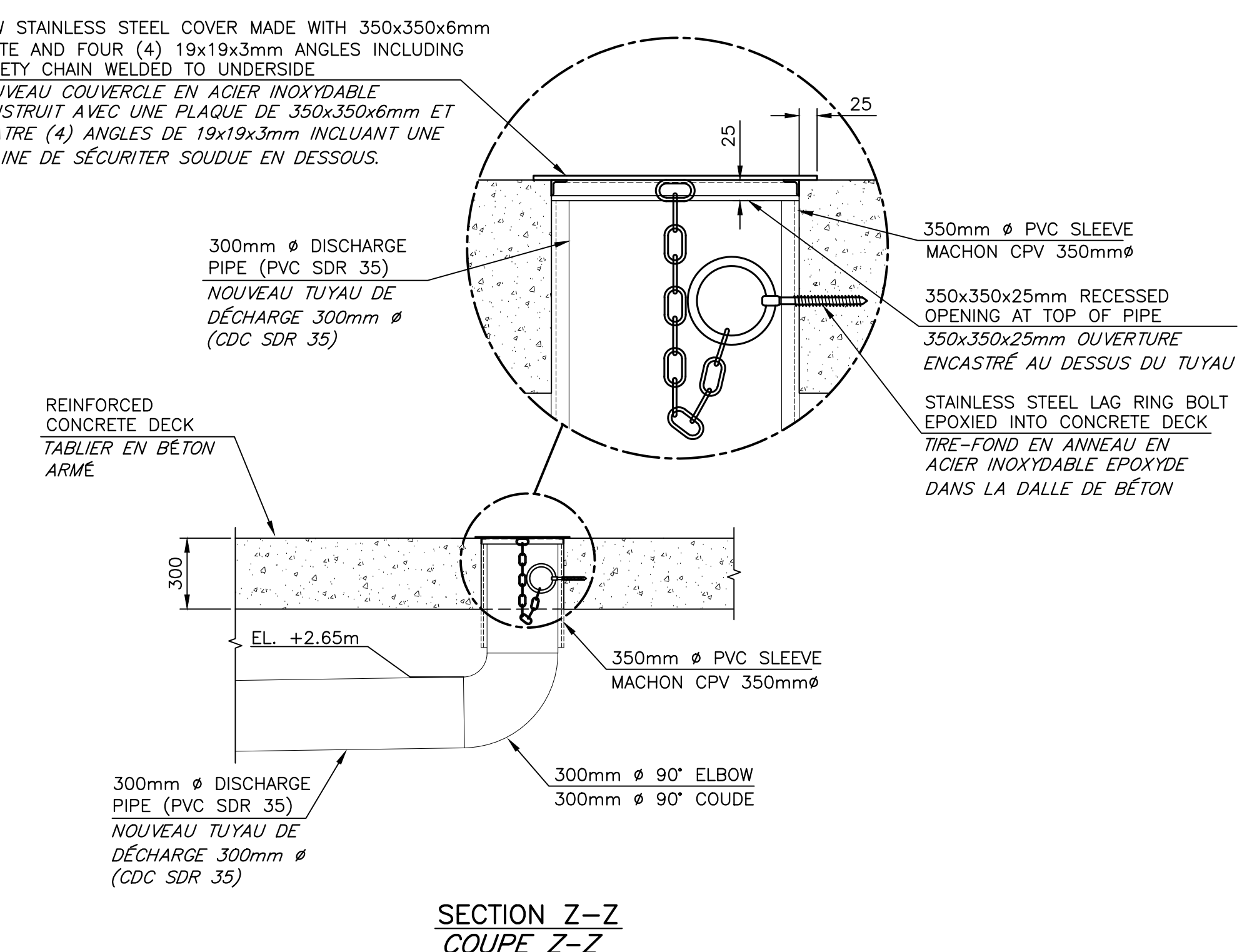
PLAN VIEW
VUE DE PLAN



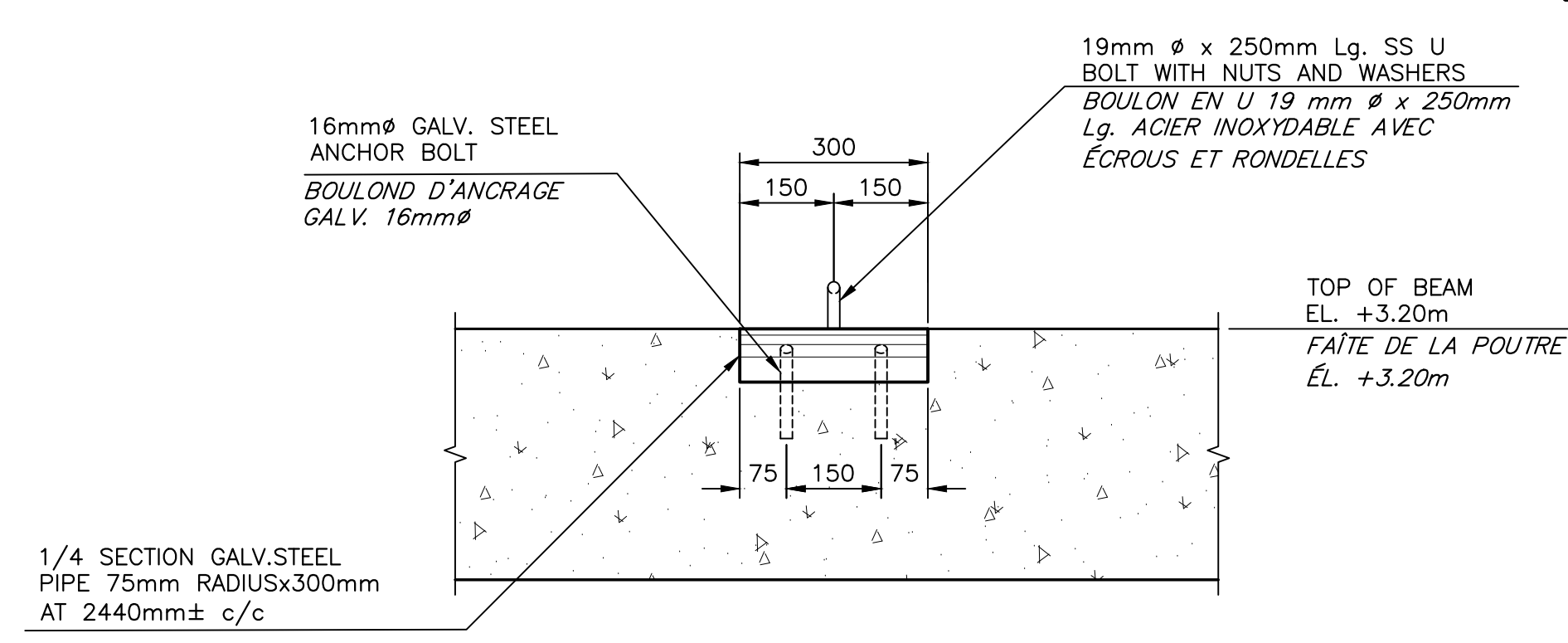
TYPICAL BUMPER DETAIL
DÉTAIL DE PARE-CHOC TYPIQUE
SCALE/ÉCHELLE: 1:50



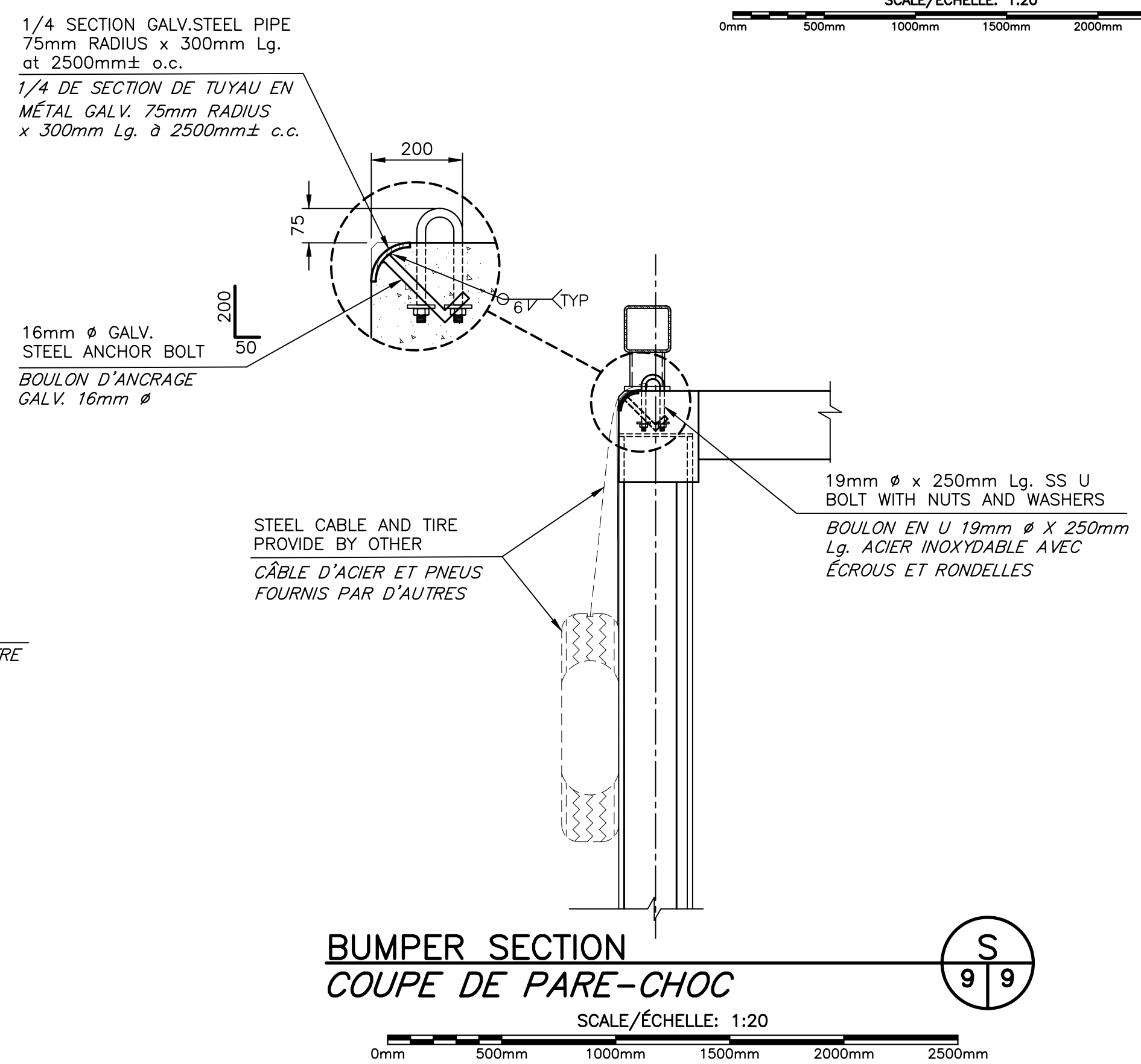
SECTION THRU CANTILEVER DECK
COUPE EN TRAVERS TABLIER PORTE-À-FAUX
SCALE/ÉCHELLE: 1:20



DRAIN PIPE DETAIL
DÉTAIL DU TUYAU DE DÉCHARGE
SCALE/ÉCHELLE: 1:20



DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:10



BUMPER SECTION
COUPE DE PARE-CHOC
SCALE/ÉCHELLE: 1:20



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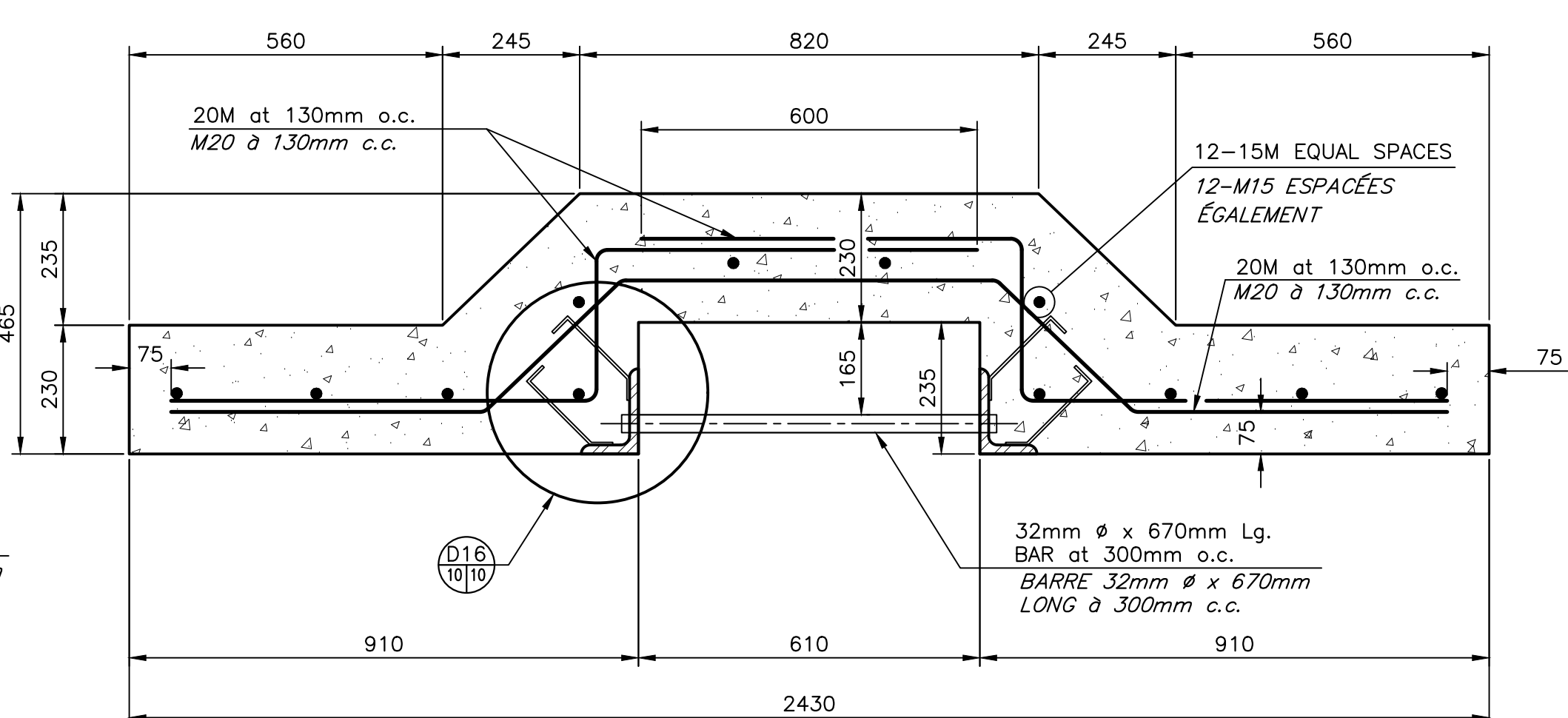
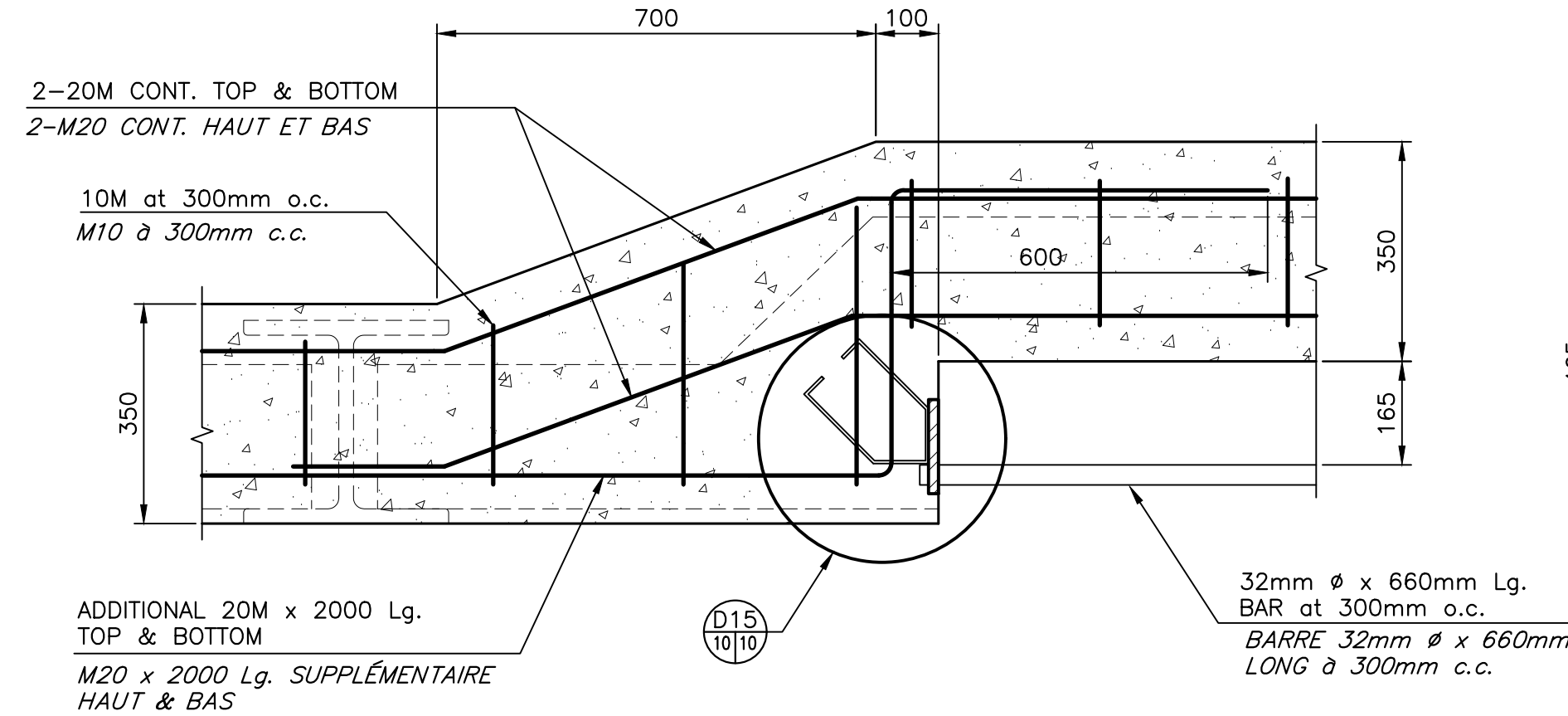
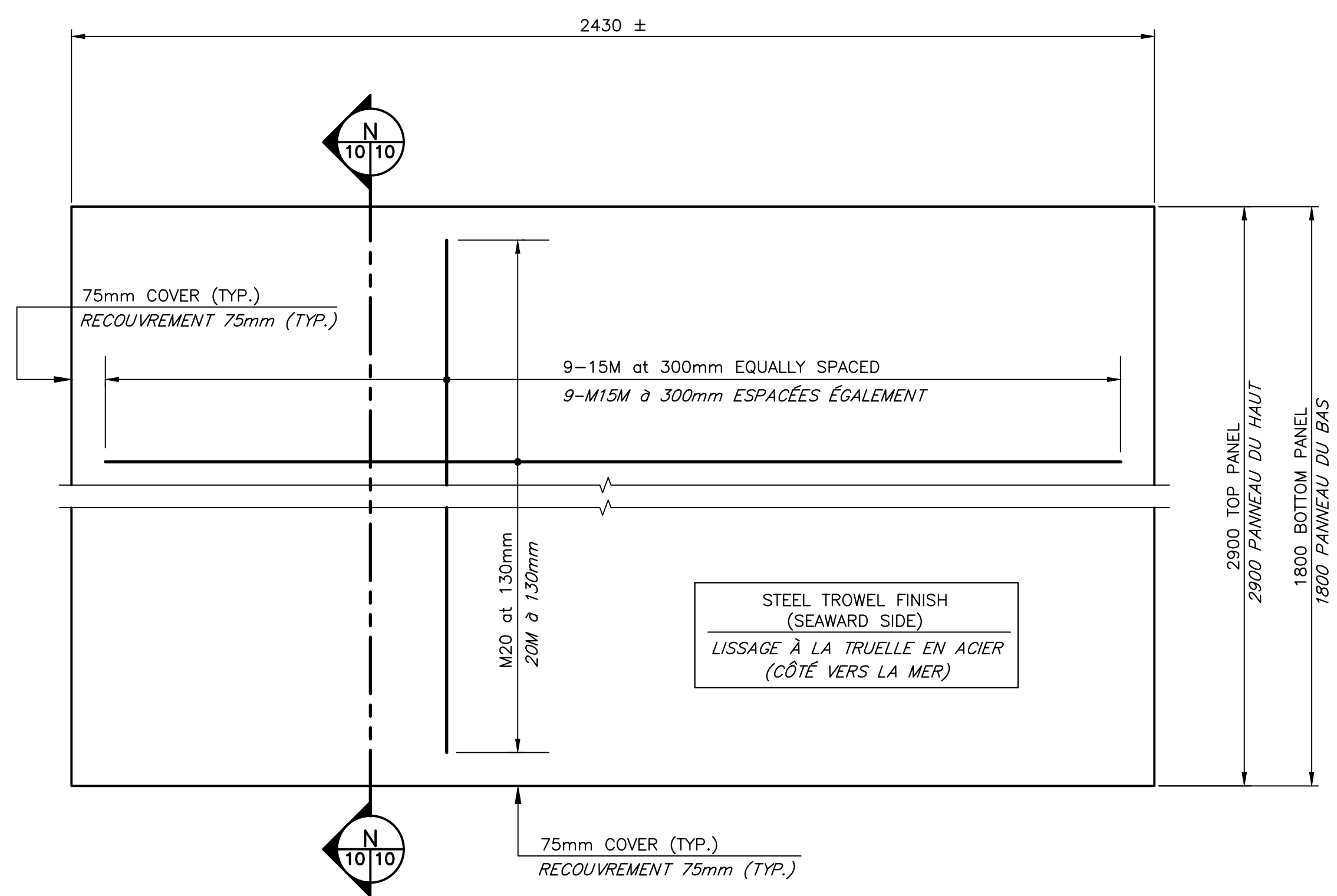
project
NEW MARGINAL WHARF
NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE, NB
COMTÉ DE KENT COUNTY

drawing
SECTIONS AND DETAILS
COUPES ET DÉTAILS

designed by BOUCHER CONSTRUCTION LTD/ conçu
date SEPTEMBER/SEPTEMBRE 2017
drawn P. LEBLANC
date SEPTEMBER/SEPTEMBRE 2017

approved
date
Tender
Project Manager
project number
722234

drawing no.
M9 of/de M12



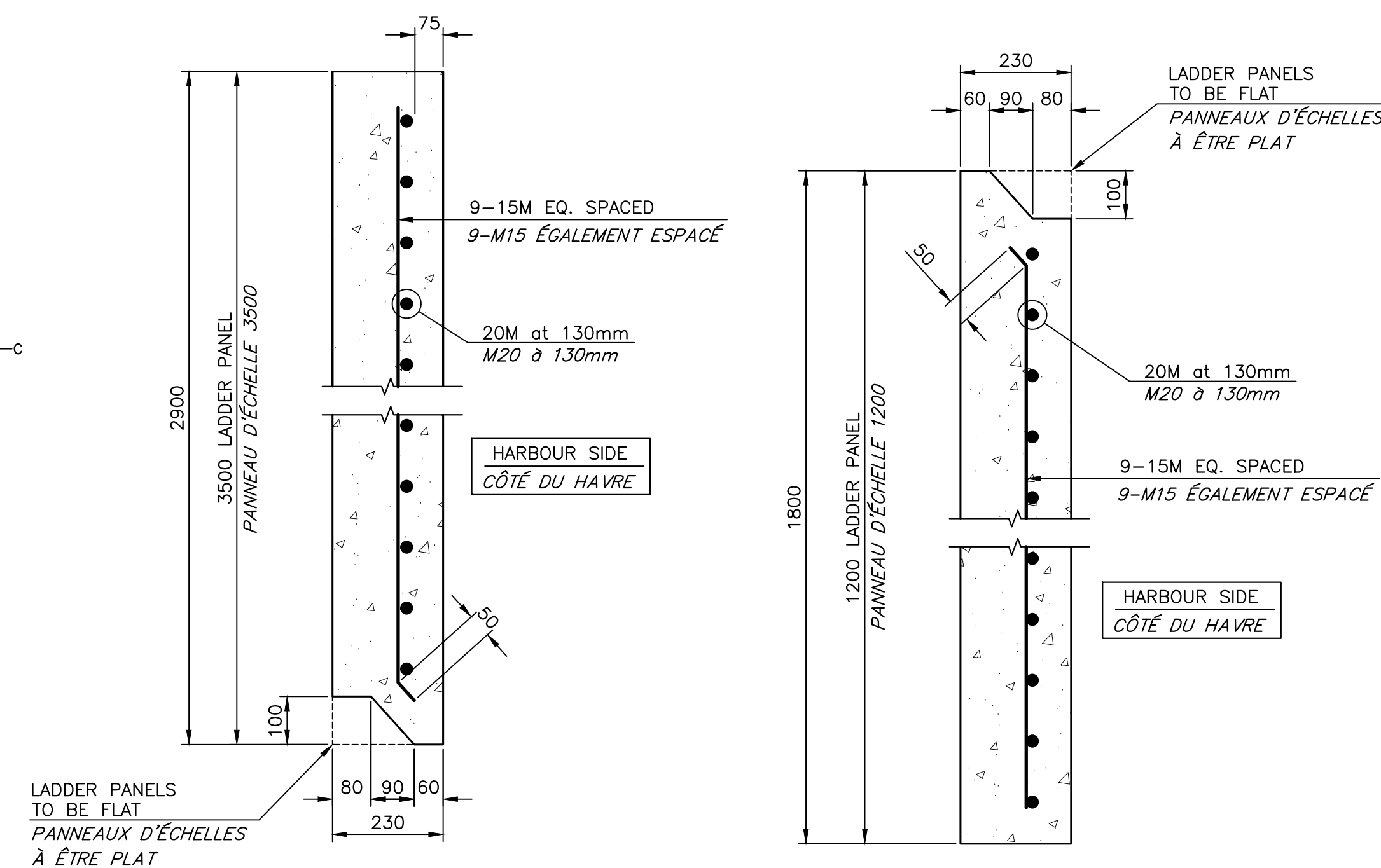
SECTION AT BEAM ELEVATION
COUPE À L'ÉLEVATION DE LA POUTRE

SECTION THRU LADDER PANEL
COUPE AU TRAVERS D'UN PANNEAU AVEC ÉCHELLE

SCALE/ÉCHELLE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm

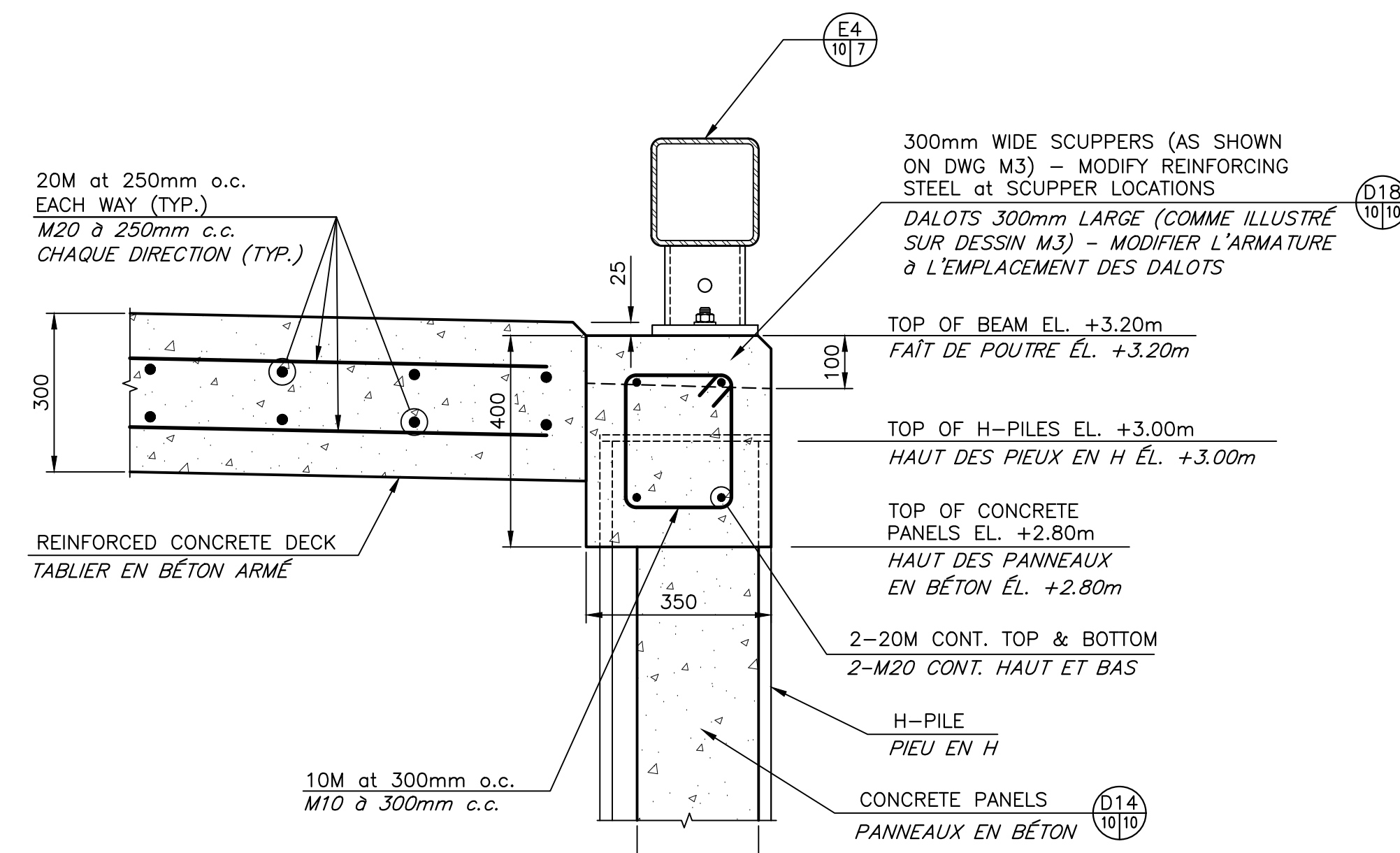
SCALE/ÉCHELLE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm

PANEL DETAIL
DÉTAIL DU PANNEAU
SCALE/ÉCHELLE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm

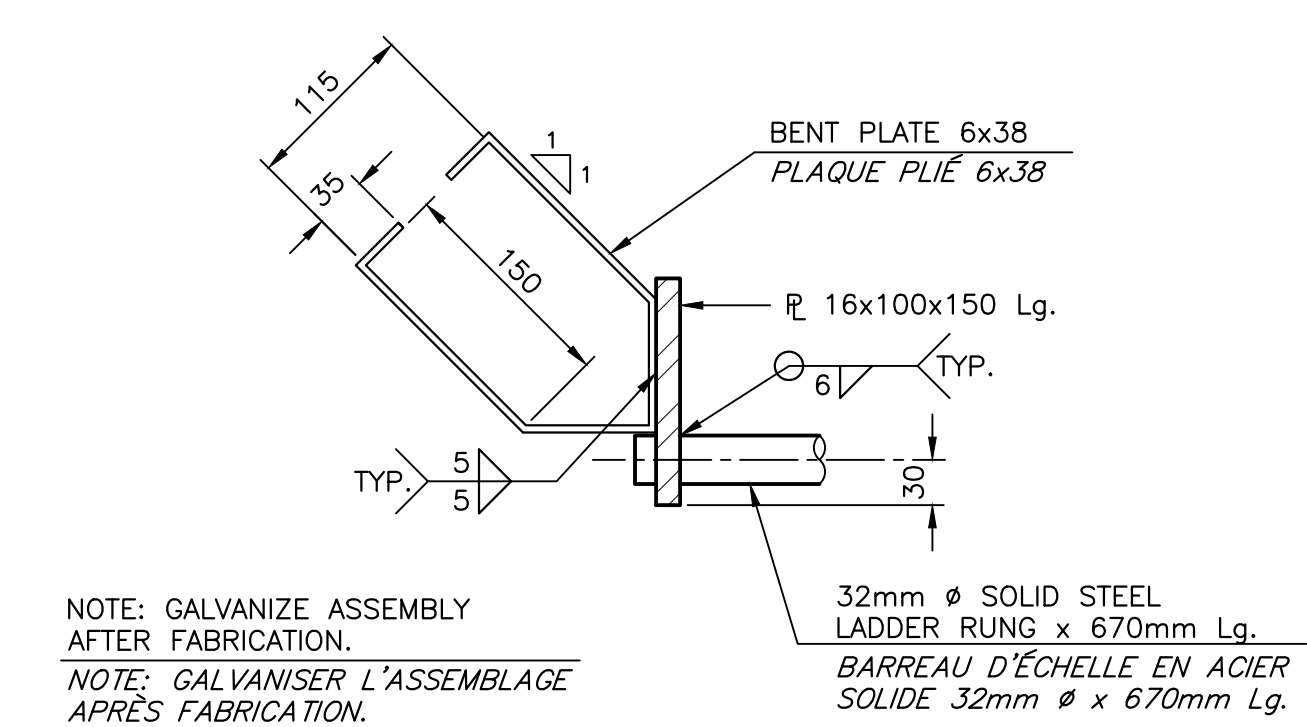


TYPICAL SECTION THROUGH TOP PANEL
COUPE TYPIQUE AU TRAVERS LES PANNEAUX DU HAUT

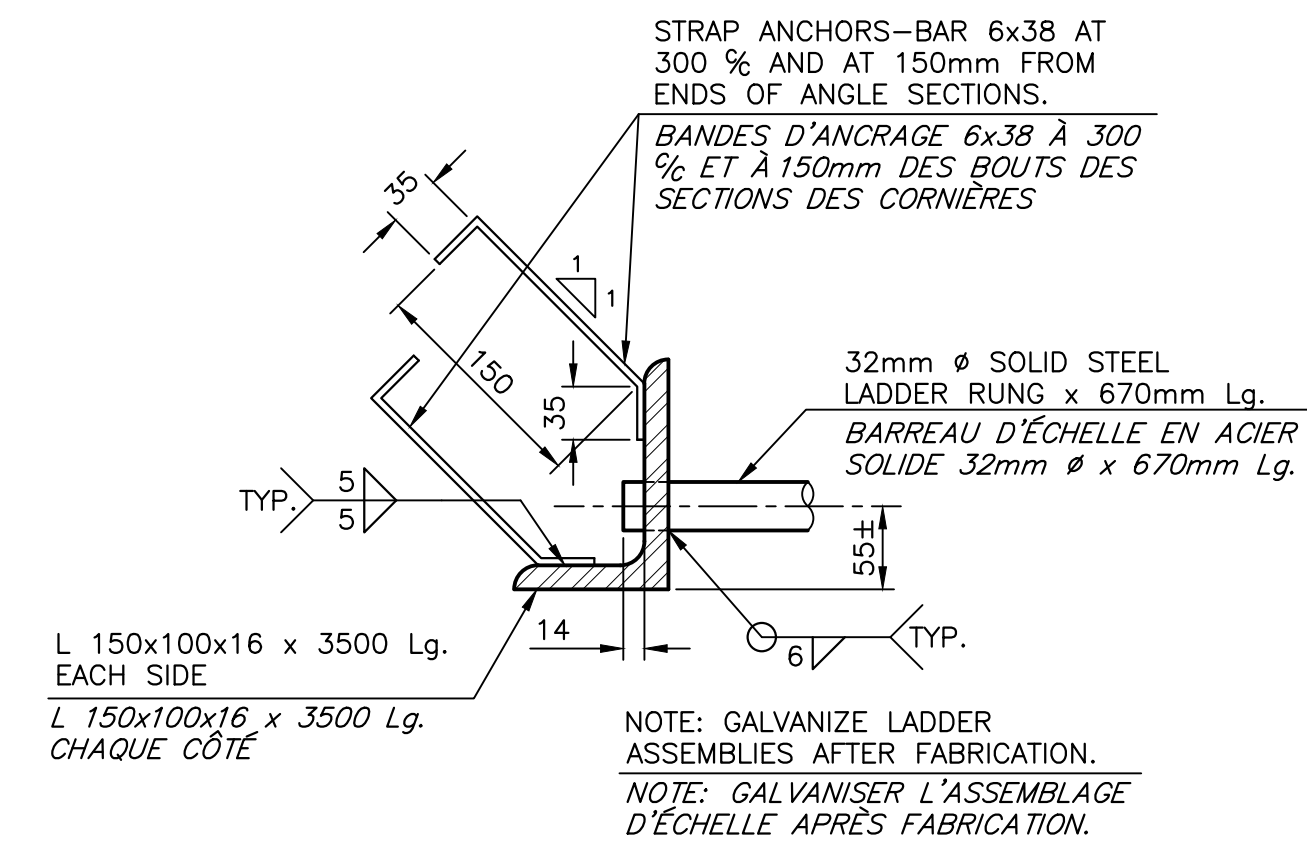
TYPICAL SECTION THROUGH BOTTOM PANEL
COUPE TYPIQUE AU TRAVERS LES PANNEAUX DU BAS



DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm

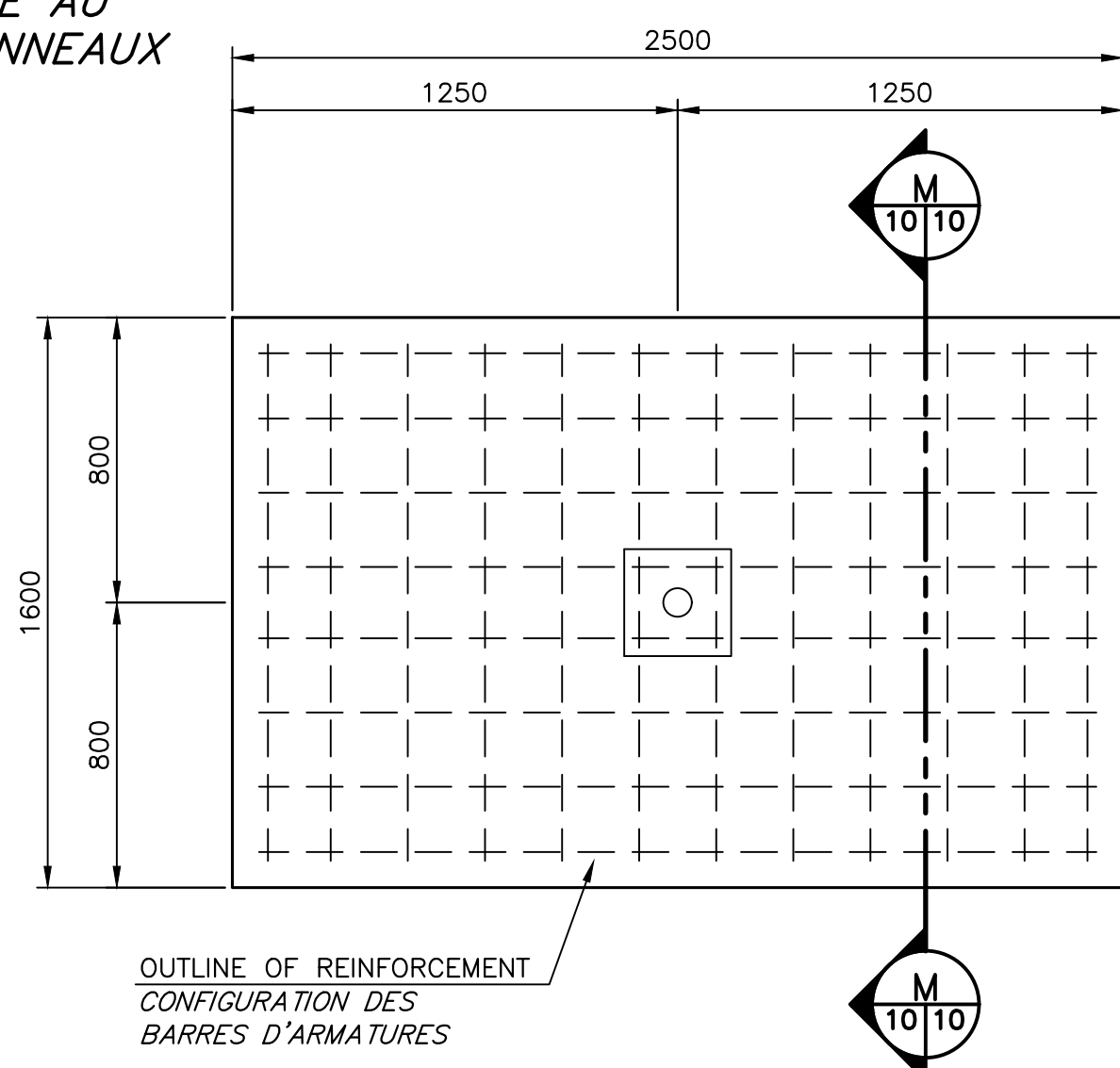


DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm

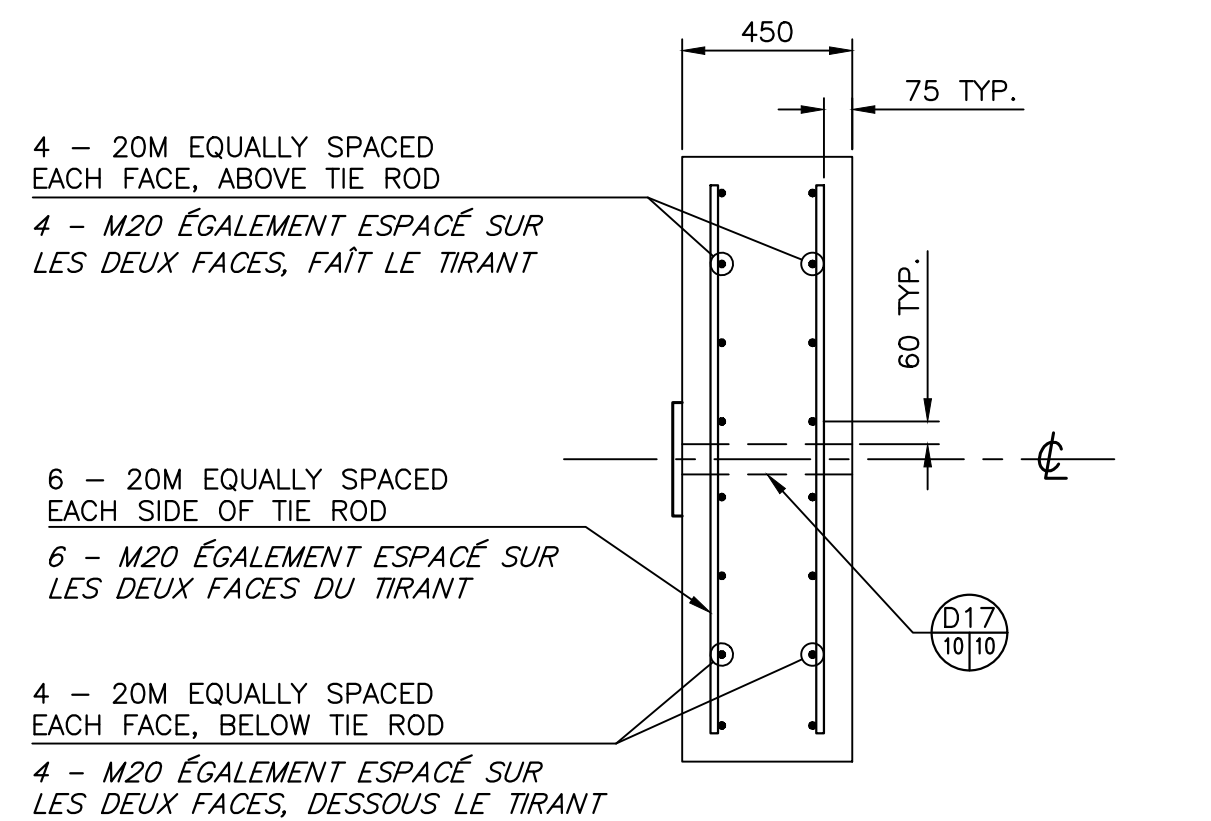


DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm

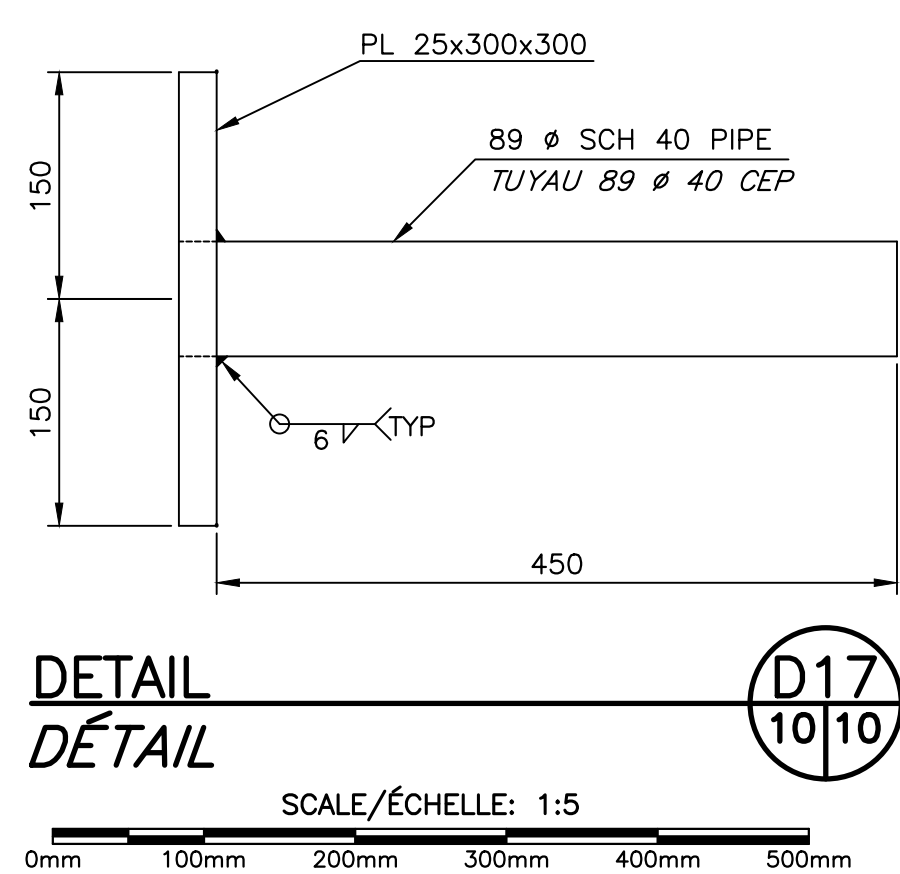
SECTION
COUPE
SCALE/ÉCHELLE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



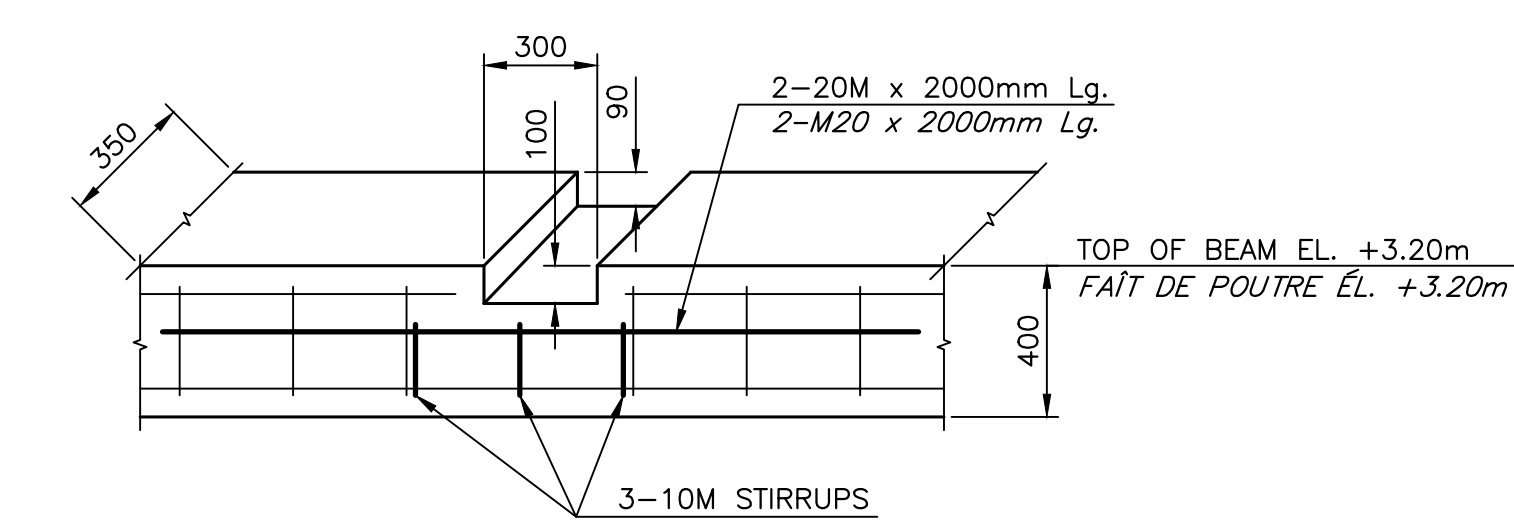
PRECAST REINFORCED CONCRETE ANCHOR BLOCK DETAIL
BLOC D'ANCRAGE EN BÉTON ARMÉ PRÉFABRIQUÉ
SCALE/ÉCHELLE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



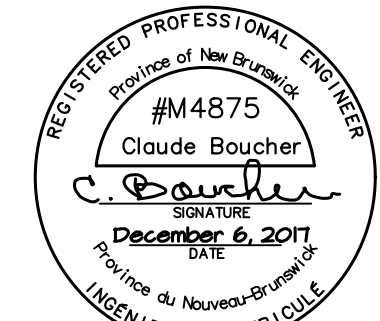
SECTION
COUPE
SCALE/ÉCHELLE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



DETAIL
DÉTAIL
SCALE/ÉCHELLE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm



REINFORCING DETAIL AT SCUPPERS
DÉTAIL D'ARMATURE AUX DALOTS
SCALE/ÉCHELLE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm

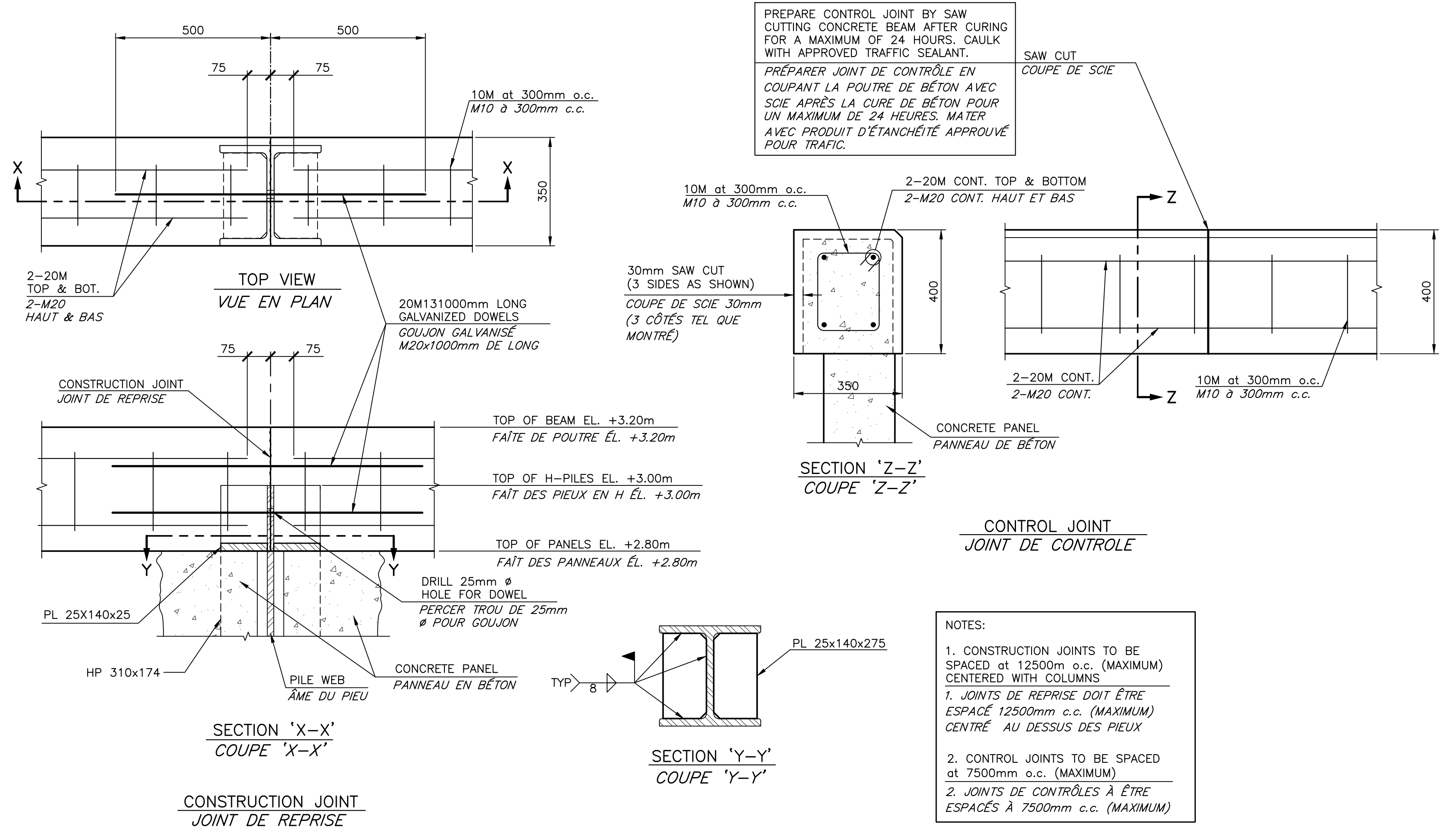
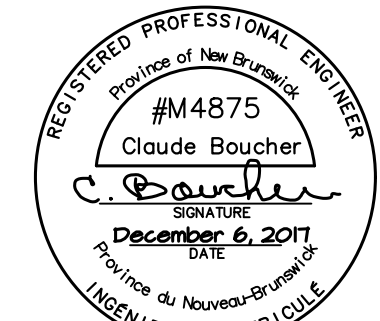


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revisions		date
project		project

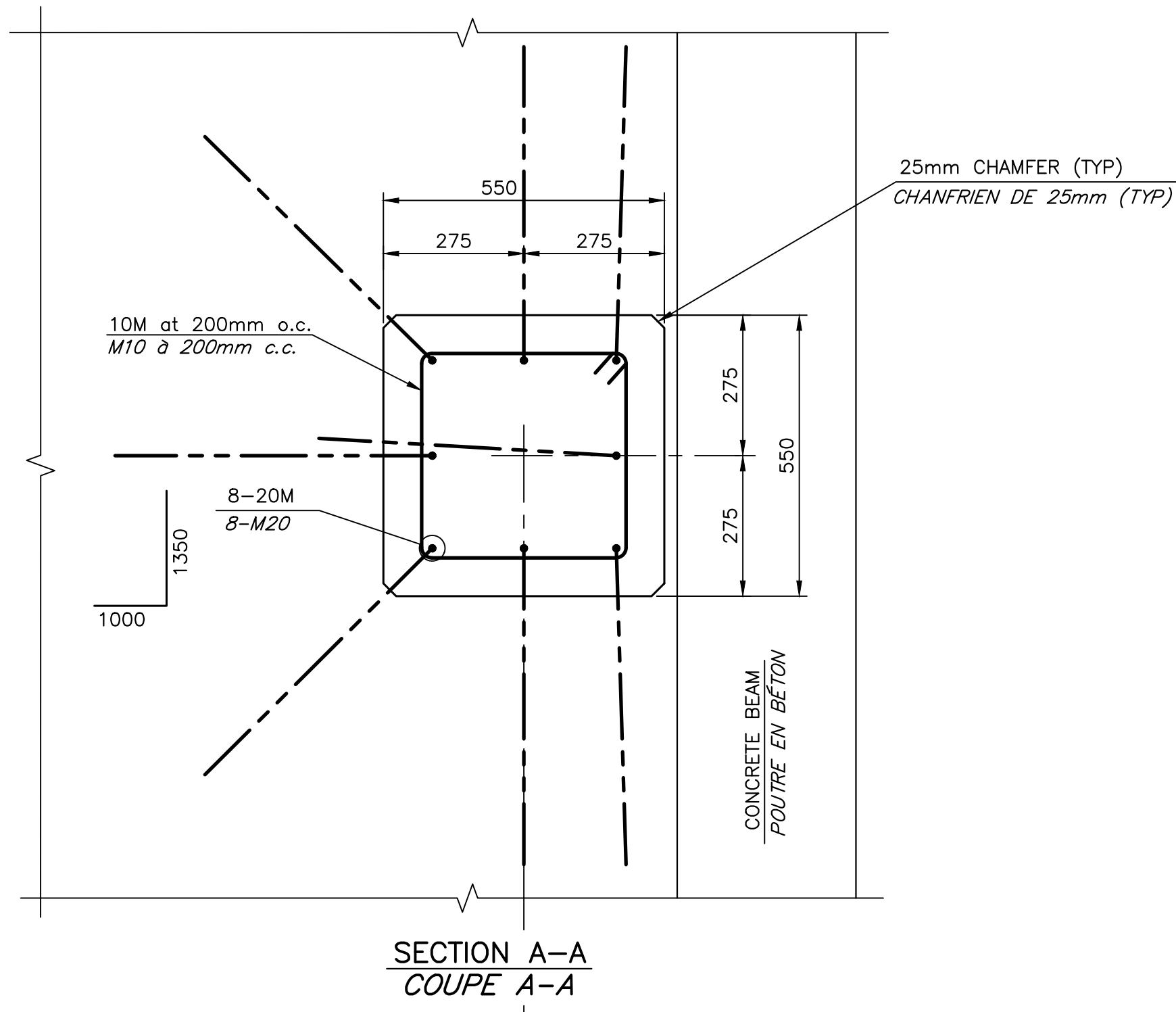
NEW MARGINAL WHARF
NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE, NB
COMITÉ DE KENT COUNTY

REINFORCING SECTIONS AND DETAILS
COUPES ET DÉTAILS D'ARMATURE

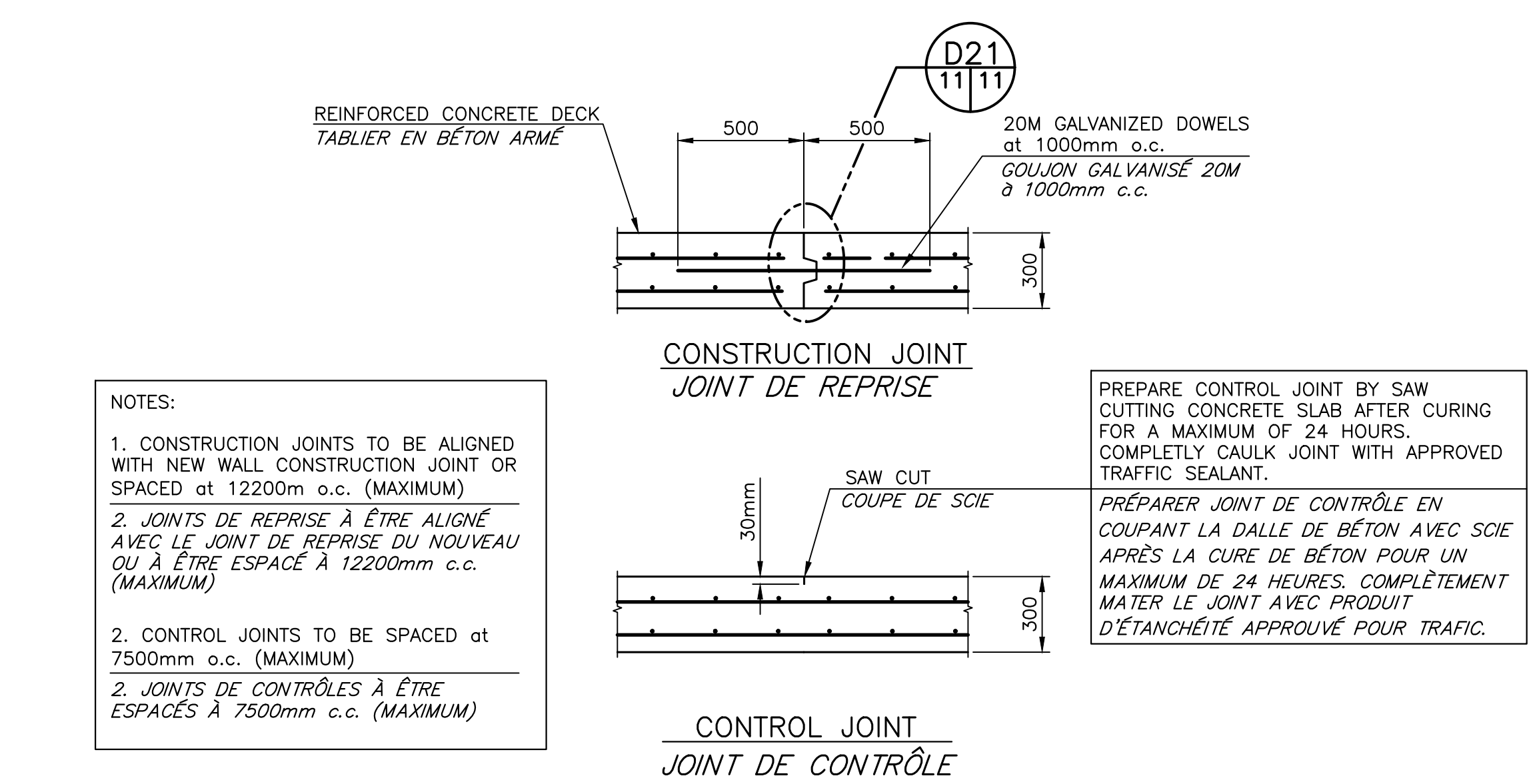
designed BY BOUCHER CONSTRUCTION LTD	conçu
date SEPTEMBER/SEPTEMBRE 2017	date
drawn P. LEBLANC	dessiné
date SEPTEMBER/SEPTEMBRE 2017	date
approved	approuvé
date	date
Tender P. LEBLANC	Submission
Project Manager	Administrateur de projets
project number 722234	no. du projet
drawing no. M10 of/de M12	no. du dessin



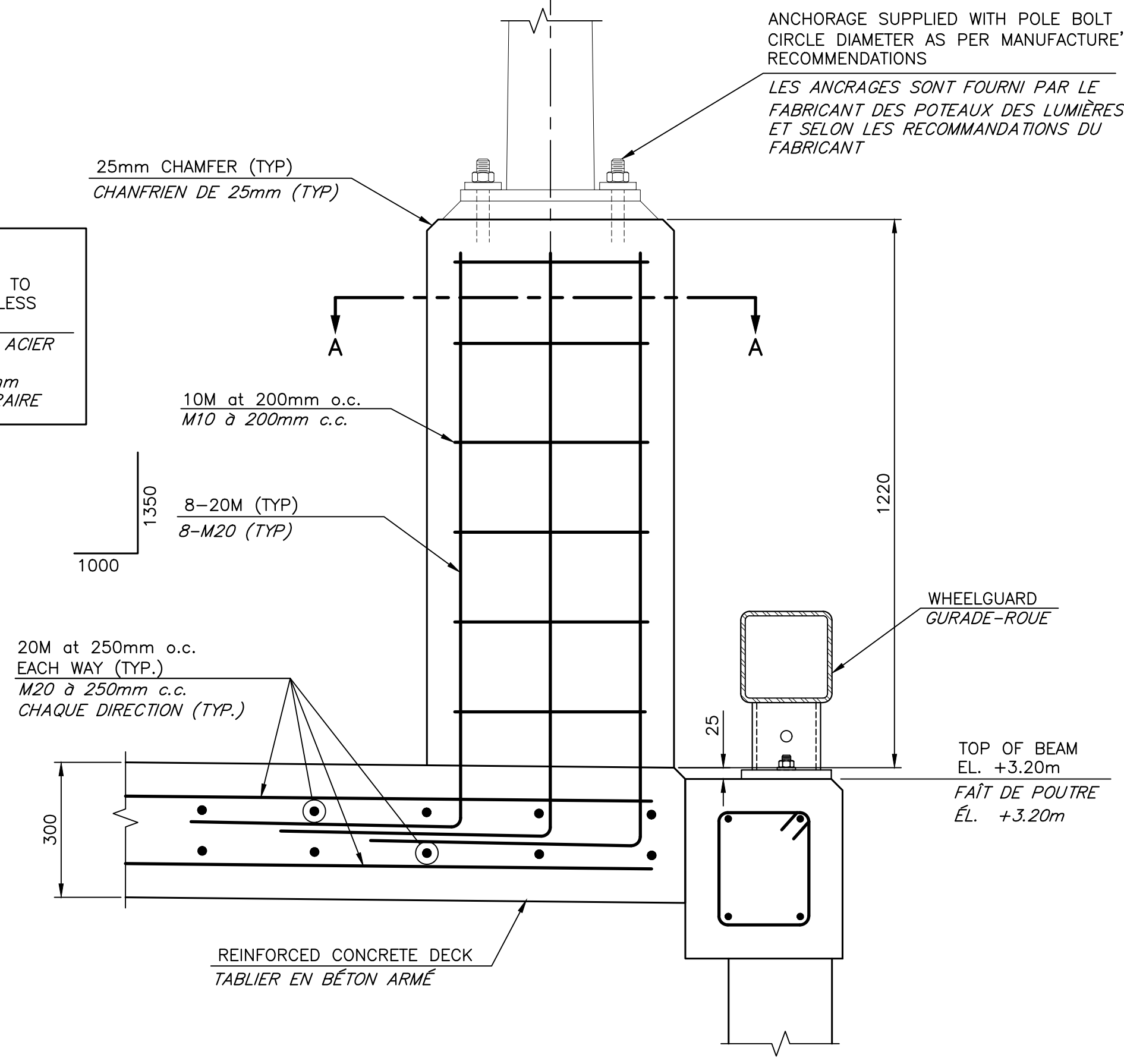
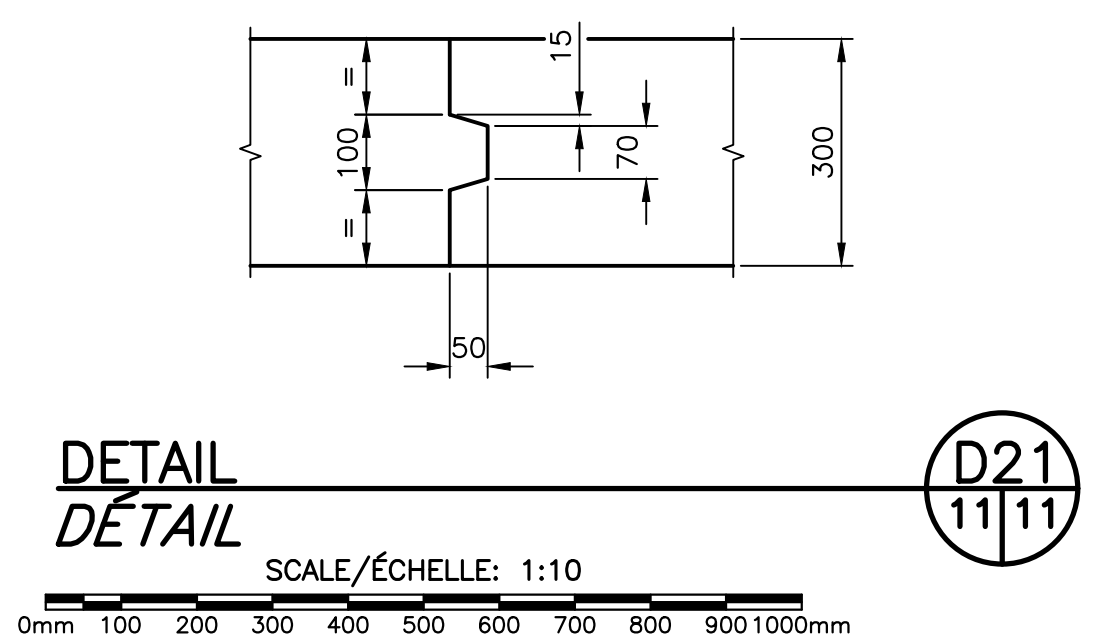
CONCRETE BEAM JOINT / JOINT DE LA POUTRE DE BÉTON
SCALE/ÉCHELLE: 1:10
D30 3/11



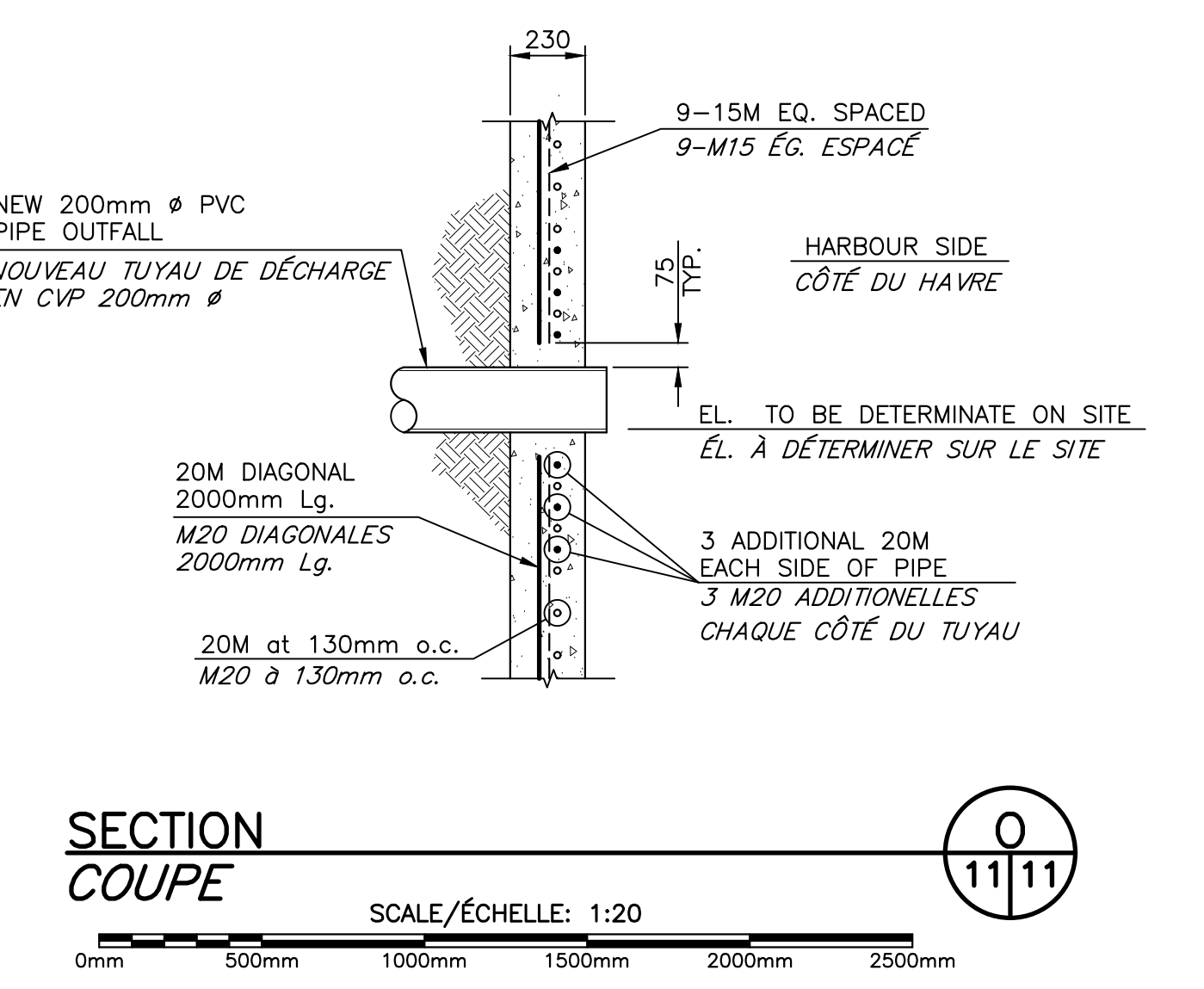
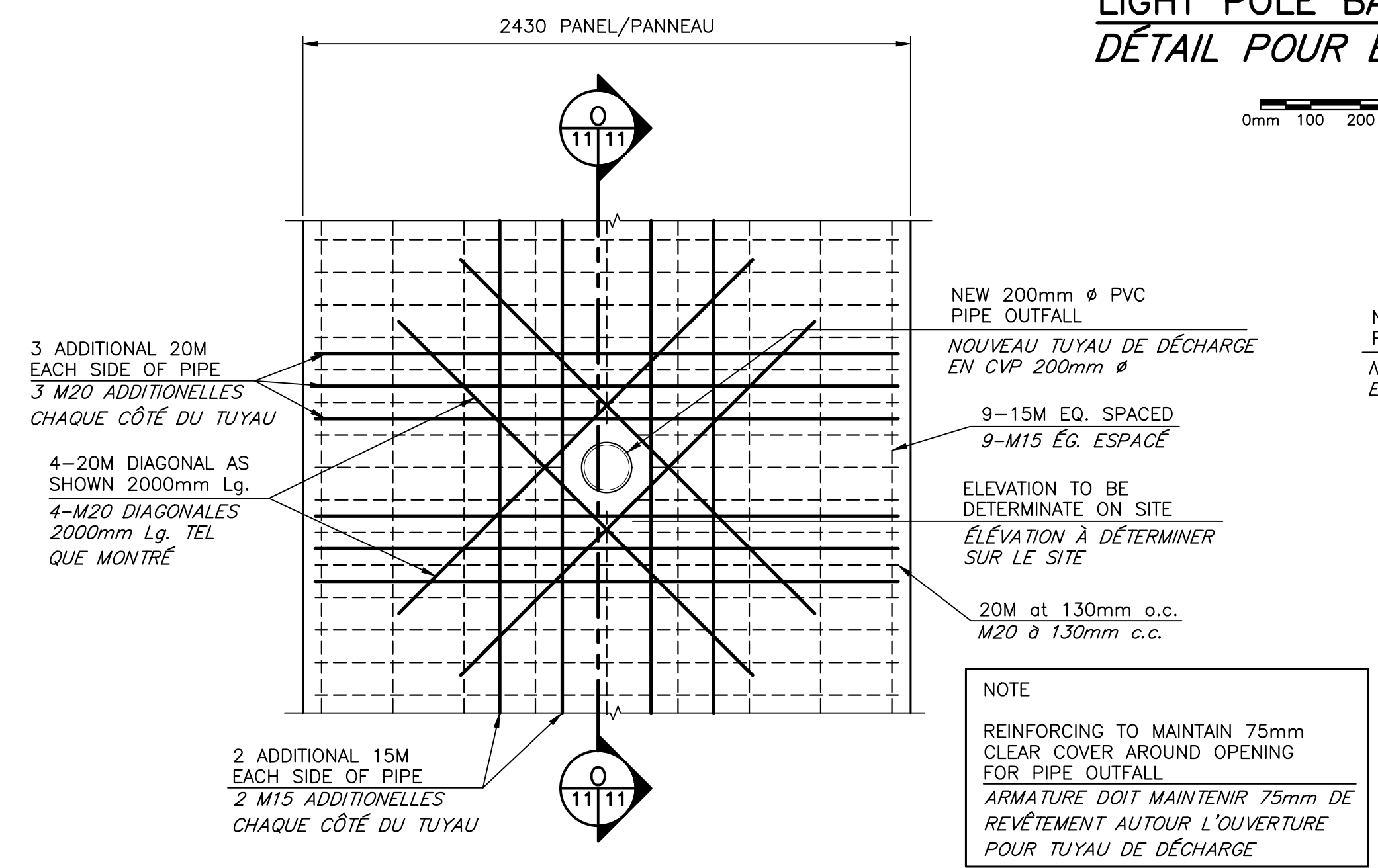
SECTION A-A / COUPE A-A



TYPICAL JOINT DETAILS FOR DECK / DÉTAILS DE JOINTS POUR TABLIER TYPIQUE
SCALE/ÉCHELLE: 1:20
D8 3/11



LIGHT POLE BASE DETAIL / DÉTAIL POUR BASE DE LAMPADAIRE
SCALE/ÉCHELLE: 1:10
D22 3,4/11



SECTION / COUPE
SCALE/ÉCHELLE: 1:20
O 11/11

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revisions		date

NEW MARGINAL WHARF / NOUVEAU QUAI MARGINAL
STRUCTURE 403
CAP des CAISSIE, NB
COMTÉ DE KENT COUNTY

REINFORCING SECTIONS AND DETAILS / COUPES ET DÉTAILS D'ARMATURE

designed BY BOUCHER CONSTRUCTION LTD/ conçu	
date	SEPTEMBER/SEPTEMBRE 2017
drawn	P. LEBLANC
date	SEPTEMBER/SEPTEMBRE 2017
approved	
date	
Tender	Submission
Project Manager	Administrateur de projets
project number	no. du projet
	722234
drawing no.	no. du dessin
	M11 of/de M12

Client	Public Works and Government Services Canada	Proj No.	6489.91	BOREHOLE	BH17-01
Project	Geotechnical Investigation - New Marginal Wharf	Date Drilled	5 May 2017	Page	1 of 1
Location	Cap des Caissie, New Brunswick	Unconsolidated Shear Strength - ϕ ψ Water Content & Atterberg Limits Dynamic Penetration Test, blow/0.3m Standard Penetration Test, blow/0.3m			
Ground Level, m	2.80	Datum:	Chart	Logged By	AES
DEPTH, m	No	TYPE	N	REC (mm)	LOG
0	1	S	17	100	F F F F
					FILL
					Medium-dense brown sand and gravel
1	2	S	11	320	F F F F
					FILL
					Loose to dense brown sand and gravel (crushed sandstone)
2	3	S	10	300	F F F F
					FILL
					Small sub-angular cobbles encountered
3	4	S	11	130	F F F F
					FILL
					Sand and gravel, trace silt (AASHTO A-2-4)
4	5	S	21	590	F F F F
					FILL
					Decreasing gravel content with depth
5	6	S	31	370	F F F F
					SAND
					Dense grey sand, trace silt
6	7	S	100*	270	F F F F
					FILL
					Organics (shell fragments) observed
7	8	NG	0	470	
					SANDSTONE BEDROCK
					Grey sandstone bedrock, fine to medium grained
8	9	NG	78	1520	
					FILL
					Very close fracture spacing, very poor rock quality
9	10	NG	82	1520	
					FILL
					Close fracture spacing, good rock quality
10					
					FILL
					Moderate fracture spacing, good rock quality

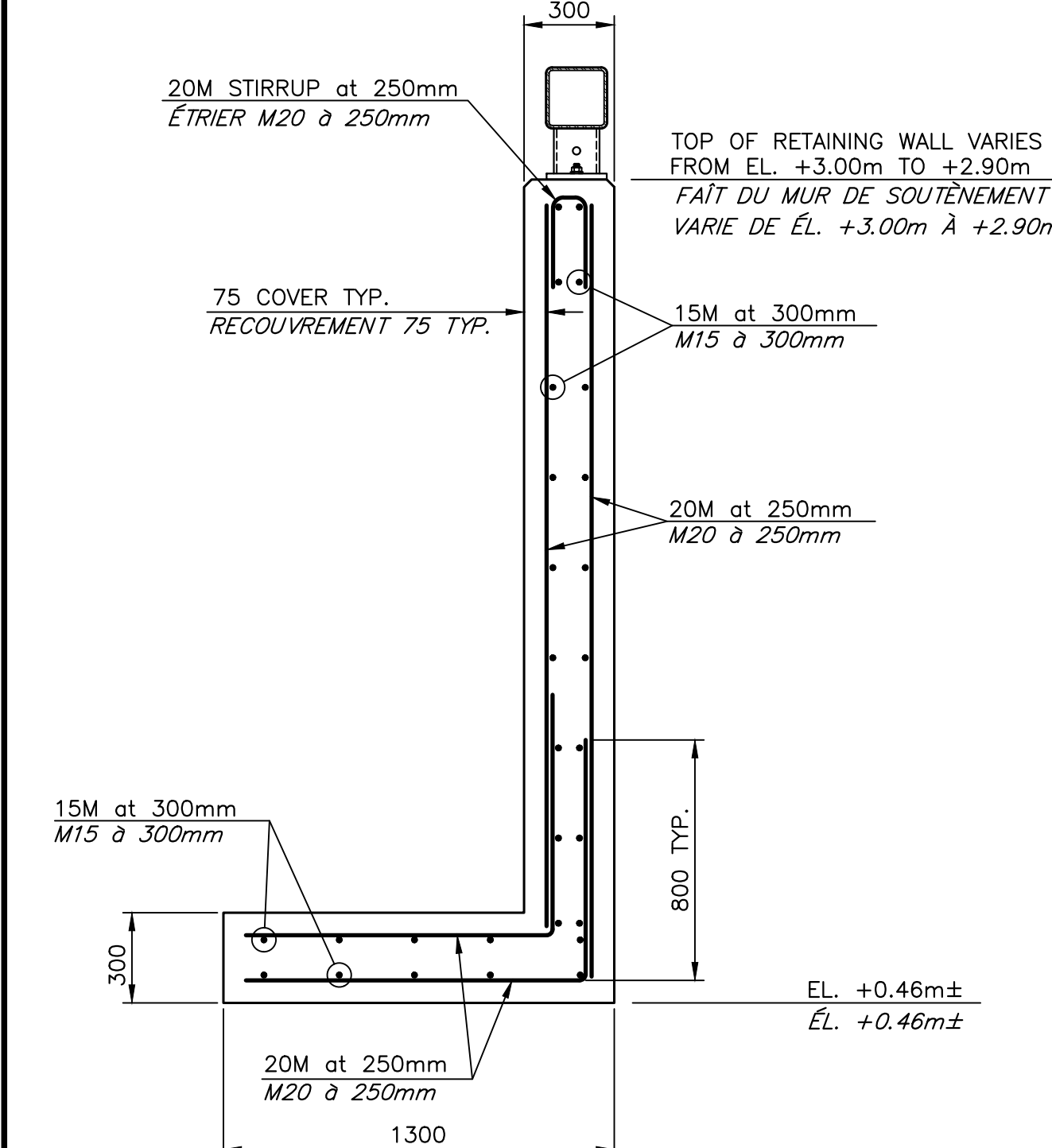
End of Borehole at 7.6 metres below existing surface grade
Water seepage observed at 1.2 metres while drilling.

Client	Public Works and Government Services Canada	Proj No.	6489.91	BOREHOLE	BH17-02
Project	Geotechnical Investigation - New Marginal Wharf	Date Drilled	5 May 2017	Page	1 of 1
Location	Cap des Caissie, New Brunswick	Unconsolidated Shear Strength - ϕ ψ Water Content & Atterberg Limits Dynamic Penetration Test, blow/0.3m Standard Penetration Test, blow/0.3m			
Ground Level, m	2.80	Datum:	Chart	Logged By	AES
DEPTH, m	No	TYPE	N	REC (mm)	LOG
0	1	S	34	420	F F F F
					TOPSOIL
					Brown sand and organics, some silt
1	2	S	4	200	F F F F
					FILL
					Loose to dense brown sand and gravel (crushed sandstone)
2	3	S	25	190	F F F F
					FILL
					Loose to dense brown sand and gravel (crushed sandstone)
3	4	S	8	170	F F F F
					FILL
					Loose to dense brown sand and gravel (crushed sandstone)
4	5	S	8	390	F F F F
					SAND
					Loose grey sand, trace gravel, silt and organics (shell fragments)
5	6	S	100*	230	F F F F
					FILL
					Gravel observed in the top of the sand layer, likely migrating from the fill layer
6	7	NG	55	1240	
					SANDSTONE BEDROCK
					Grey sandstone bedrock, fine to medium grained
7	8	NG	74	1520	
					FILL
					Close fracture spacing, fair rock quality
8	9	NG	77	1520	
					FILL
					Moderate fracture spacing, fair rock quality
9	10	NG	77	1520	
					FILL
					Moderate fracture spacing, good rock quality

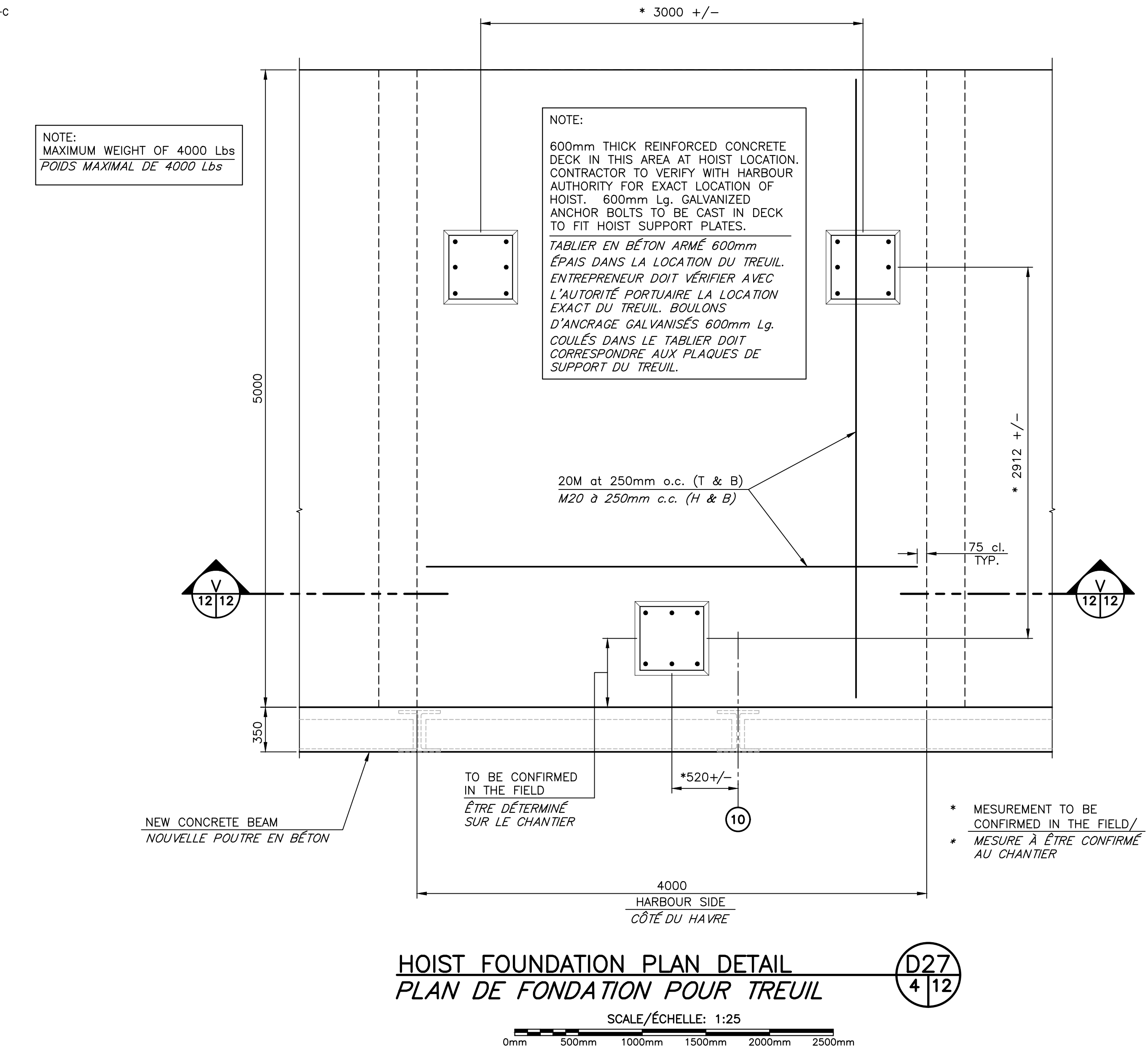
End of Borehole at 7.6 metres below existing surface grade
Water seepage observed at 1.2 metres while drilling.

Client	Public Works and Government Services Canada	Proj No.	6489.91	BOREHOLE	BH17-03
Project	Geotechnical Investigation - New Marginal Wharf	Date Drilled	5 May 2017	Page	1 of 1
Location	Cap des Caissie, New Brunswick	Unconsolidated Shear Strength - ϕ ψ Water Content & Atterberg Limits Dynamic Penetration Test, blow/0.3m Standard Penetration Test, blow/0.3m			
Ground Level, m	2.80	Datum:	Chart	Logged By	AES
DEPTH, m	No	TYPE	N	REC (mm)	LOG
0	1	S	32	500	F F F F
					TOPSOIL
					Brown sand and organics, some silt
1	2	S	17	190	F F F F
					FILL
					Loose to dense brown sand and gravel to sandy gravel (crushed sandstone)
2	3	S	10	320	F F F F
					FILL
					Intrigant small cobbles encountered throughout
3	4	S	14	230	F F F F
					FILL
					Gravelly sand, some silt (AASHTO A-1-b)
4	5	S	11	0	F F F F
					SAND
					Dense grey gravelly sand, trace organics (shell fragments)
5	6	S	33	600	F F F F
					FILL
					Black sand encountered
6	7	NG	63	780	
					SANDSTONE BEDROCK
					Grey sandstone bedrock, fine to medium grained
7	8	NG	92	1520	
					FILL
					Very close fracture spacing, fair rock quality
8	9	NG	94	1520	
					FILL
					Moderate fracture spacing, excellent rock quality

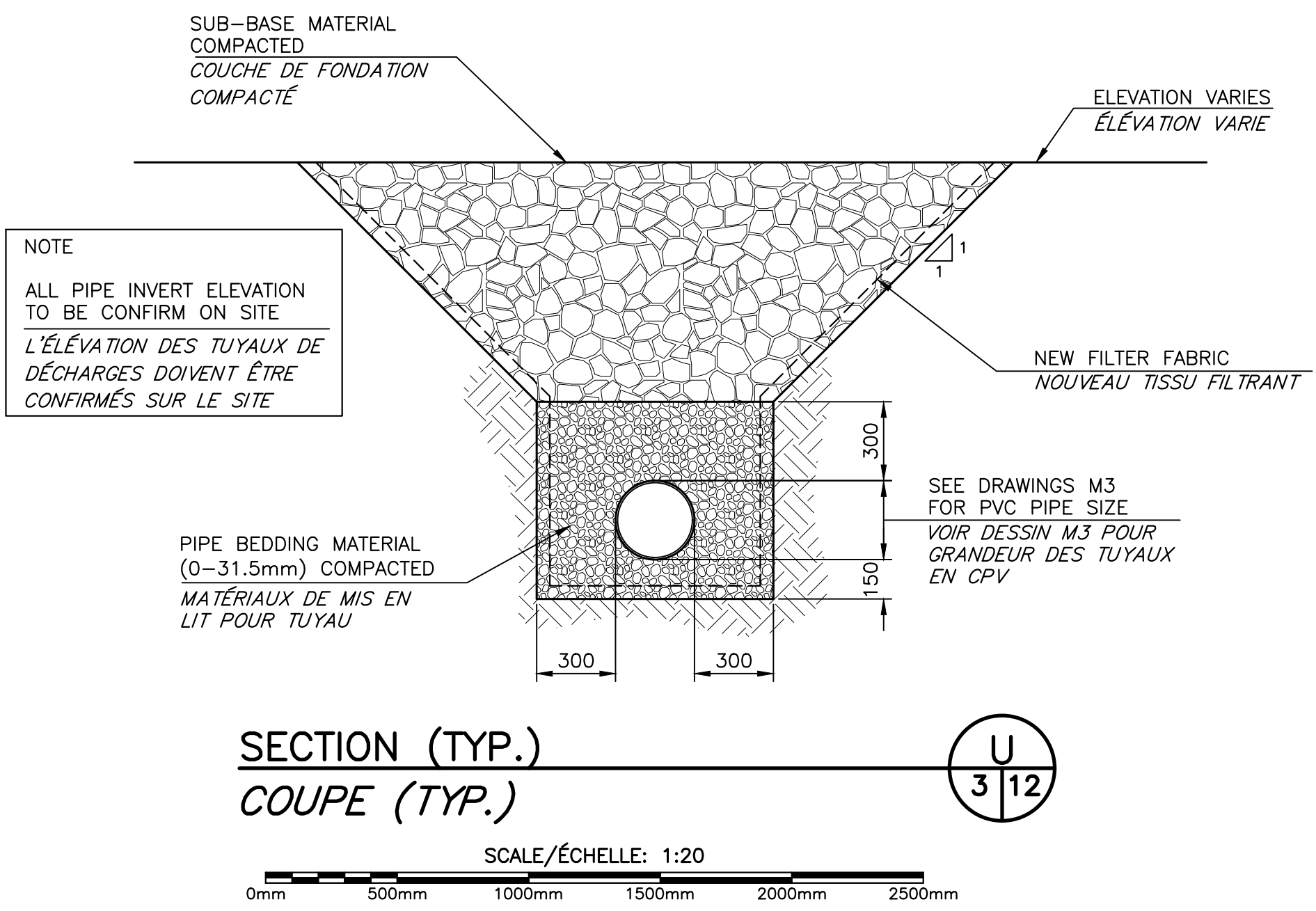
End of Borehole at 7.8 metres below existing surface grade
Water seepage observed at 1.8 metres while drilling.



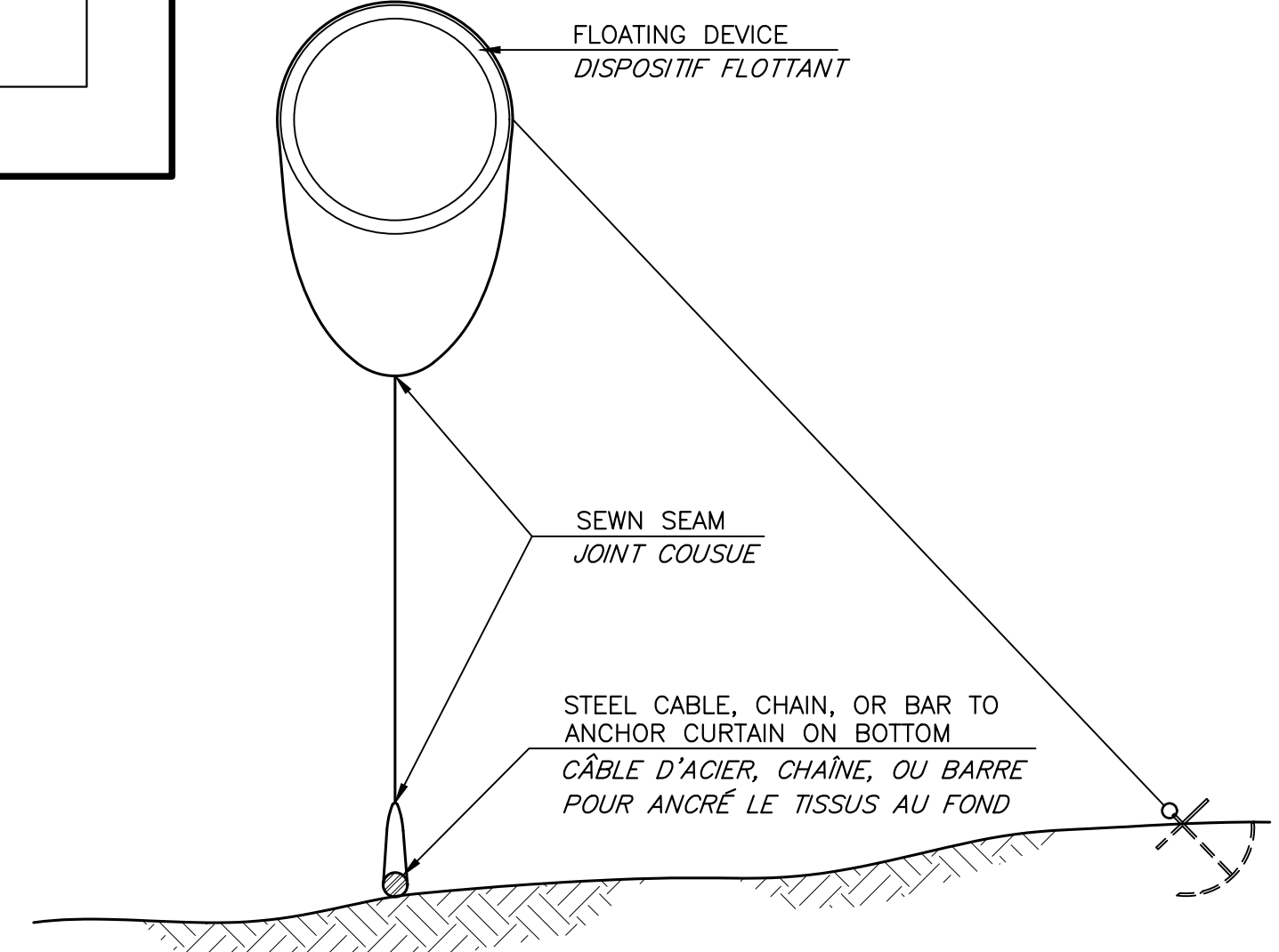
DETAIL OF REBAR CONFIGURATION
DÉTAIL DE CONFIGURATION DES BARRÉS D'ARMATURE
SCALE/ÉCHELLE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



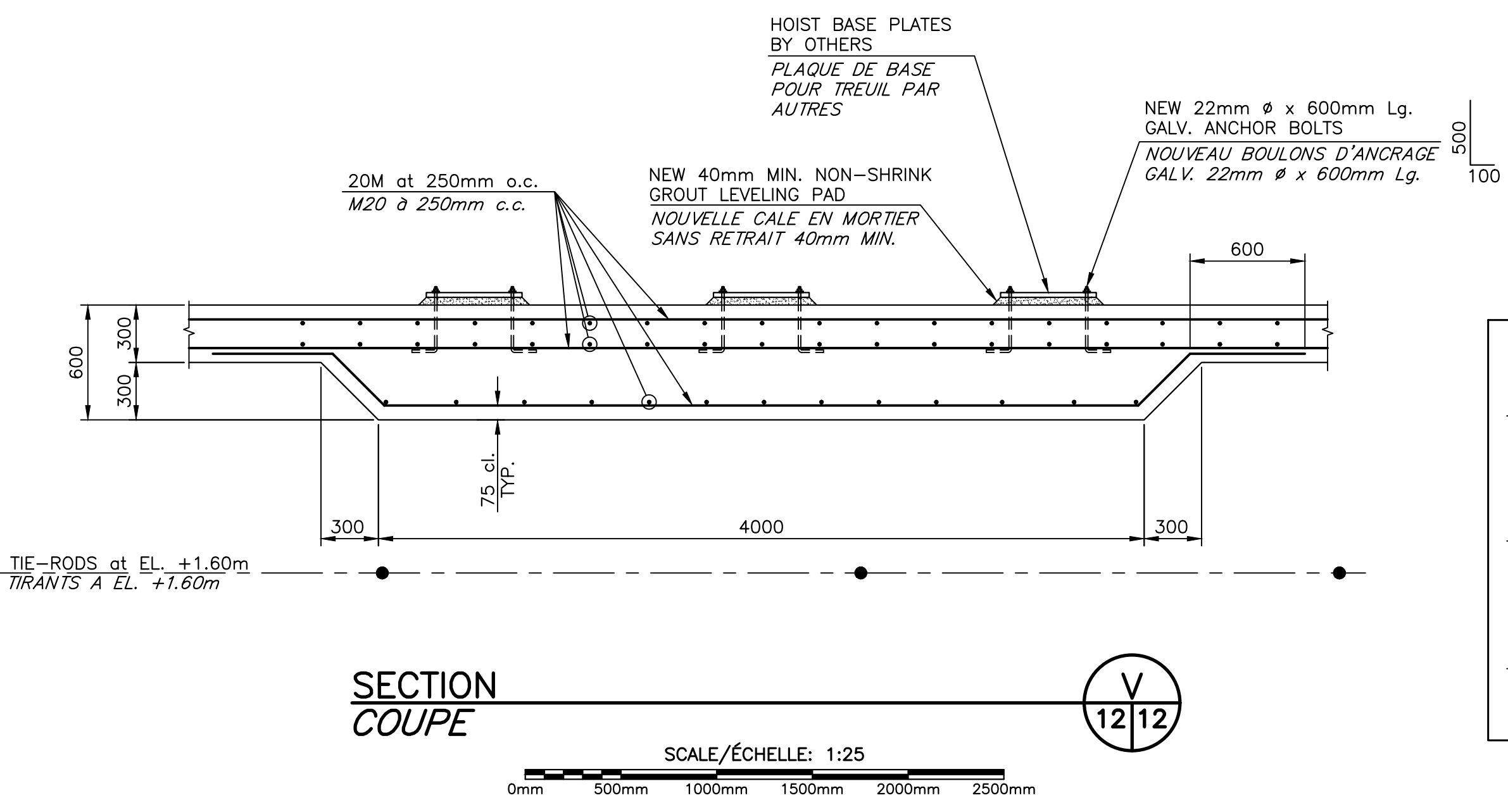
HOIST FOUNDATION PLAN DETAIL
PLAN DE FONDATION POUR TREUIL
SCALE/ÉCHELLE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



SECTION (TYP.)
COUPE (TYP.)
SCALE/ÉCHELLE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



FLOATING SILT CURTAIN SECTION
COUPE DU TISSUS FILTRANT FLOTTANT
SCALE/ÉCHELLE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



SECTION COUPE
SCALE/ÉCHELLE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm

- NOTES
- CONTRACTOR TO CONFIRM BOLT DIAMETER WITH EXISTING HOIST BASE. ENTREPRENEUR A CONFIRMER LE DIAMÈTRE DES BOULONS POUR LA BASE DU TREUIL EXISTANTE.
 - BOLT PATTERN TO MATCH EXISTING HOIST BASE PLATE AND HOLES DIAMETER. MODÈLE DES BOULONS DOIT CORRESPONDRE AVEC LA BASE DU TREUIL EXISTANT ET LE DIAMÈTRE DES TROUS.
 - EXISTING HOIST STRUCTURE TO BE INSTALLED BY OTHERS. TREUIL EXISTANT À ÊTRE INSTALLÉ PAR AUTRES.

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

Boucher Eng. & Const. Ltd.
Upper Rexton, N.B.

REGISTERED PROFESSIONAL ENGINEER
#M4875
Claude Boucher
December 6, 2017
Province du Nouveau-Brunswick
INGÉNIEUR L'IMMATRICULÉ

1	FOR TENDER / POUR SOUMISSION	DEC 5 2017
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project		project
NEW MARGINAL WHARF NOUVEAU QUAI MARGINAL		
STRUCTURE 403		
CAP des CAISSIE, NB		
COMTÉ DE KENT COUNTY		
drawing		dessin
BOREHOLE RECORDS AND SECTIONS RECORD DE FORAGE ET COUPES		
designed by	BOUCHER CONSTRUCTION LTD	conçu
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Tender		Soumission
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project number		no. du projet
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drawing no.		no. du dessin
	M12 of/de M12	