

WATERTON LAKES NATIONAL PARK, ALBERTA

CANYON CHURCH CAMP

BRIDGE REPLACEMENT



PLAN
LOCATION MAP

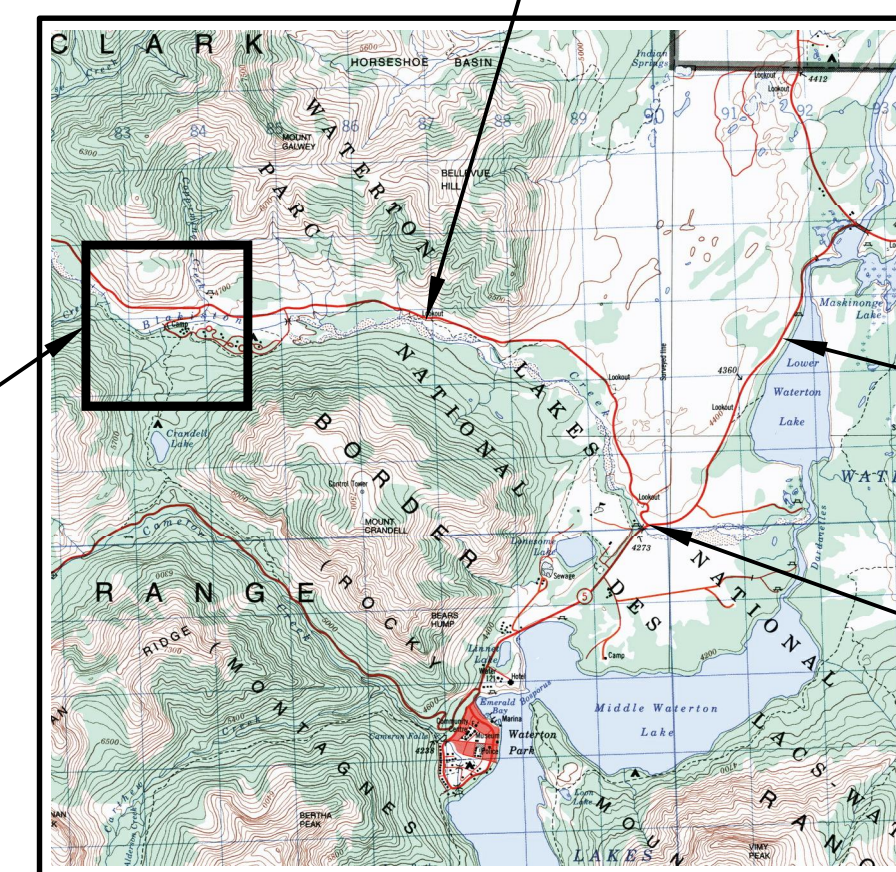
DRAWING LIST

DRAWING NUMBER

DRAWING TITLE

| | |
|-----|---|
| 200 | COVER PAGE |
| 201 | GENERAL NOTES |
| 202 | GENERAL ARRANGEMENT |
| 203 | STEEL GIRDER DETAILS |
| 204 | PRECAST CONCRETE DECK PANEL DETAILS |
| 205 | PRECAST CONCRETE BALLAST WALL DETAILS |
| 206 | CAST-IN-PLACE CONCRETE ABUTMENT DETAILS - SHEET 1 |
| 207 | CAST-IN-PLACE CONCRETE ABUTMENT DETAILS - SHEET 2 |
| 208 | GUARDRAIL DETAILS |

CANYON CHURCH
CAMP BRIDGE.
BRIDGE LOCATION IS
APPROX. 8.5 km FROM
INTERSECTION OF
HIGHWAY 5 & RED
ROCK PARKWAY.



PLAN
WATERTON NATIONAL PARK
KEY MAP

APEGGA Permit to Practice P 3979

Contractor to verify all dimensions
& conditions on site and immediately
notify the engineer of all discrepancies.

| | | | | |
|-----|-----------|-------------------------|-------------------------|----------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0 | 15/04/30 | ISSUED FOR TENDER | W.R. | R.M. |
| No. | Date/Date | Description/Description | Drawn by Dessiné par | Approved Approuvé |

Revision / Revision

| | | |
|--|-------------------------------|--|
| <div><div>A</div><div>B</div></div> | Detail number Sheet number | A Numéro de détail B Numéro de la feuille |
| Linear dimensions In millimètres | | Dimensions linéaires en millimètres |
| Consultant's Name Nom de l'expert-conseil | | Eng. Stamp Sceau de l'ingénieur |
| | | ORIGINAL SEALED BY ENGINEER ON 23 APRIL 2015 |

| | | |
|--|--|--|
| | Parks Canada Strategic Asset Management, Western and Northern Region | Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord |
| | | |

Project title/Titre du projet

CANYON CHURCH CAMP BRIDGE
BRIDGE REPLACEMENT
WATERTON LAKES NATIONAL PARK

Drawing title/Titre du dessin

COVER

| | | |
|---|--------------------------------|---|
| Surveyed by/Arpente par ROAD WEST ENGINEERING LTD. | Drawn by/Dessiné par W.R. | Date/Date 30 APRIL 2015 |
| Designed by/Concept par J.H. | Reviewed by/Revisé par R.M. | Scale/Echelle |
| Project Manager/Administrateur de Projets K.E.E. | | |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par A.C.N. |
| Park Responsible Officer/Agent Responsable | | Project Manager/Administrateur de Projets |
| Project No./No. du projet WNP13-04-024 | Asset No./No. du bien | Sheet No./ No. de la feuille 200 |
| Drawing Reference No./No. de référence du dessin | | |

- FIELD CONFIRM ALL DIMENSIONS OF EXISTING COMPONENTS PRIOR TO FABRICATION. IF DISCREPANCIES ARE IDENTIFIED, NOTIFY PARKS CANADA AGENCY (PCA) IMMEDIATELY TO ALLOW MODIFICATION OF DESIGN PRIOR TO FABRICATION.
- FABRICATION IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ANY DESIGN CHANGES PROPOSED DURING CONSTRUCTION SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

- REFER TO "CANYON CHURCH CAMP BRIDGE REPLACEMENT, WATERTON LAKES NATIONAL PARK, ALBERTA - SITE REVIEW AND PRELIMINARY FOUNDATION RECOMMENDATIONS" REPORT PREPARED BY LEVELTON CONSULTANTS LTD., DATED 27 FEBRUARY 2015.

- REFER TO "HYDROTECHNICAL ANALYSIS - BLAKISTON CREEK" MEMO PREPARED BY ASSOCIATED ENGINEERING (AB) LTD., DATED 21 FEBRUARY 2015.

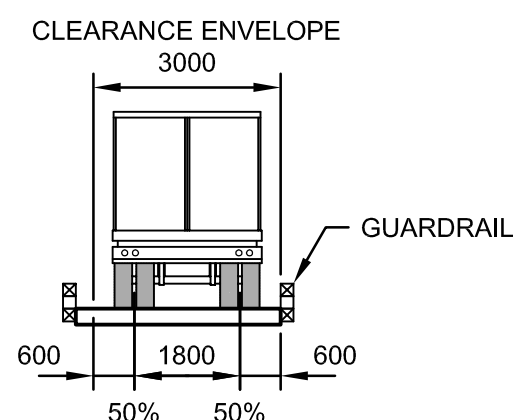
| | | |
|-------------------|--|--|
| - DEAD LOAD | - TOTAL WEIGHT OF STEEL GIRDER ASSEMBLY | 15 500 kg |
| | - WEIGHT PER GIRDER | 7 000 kg |
| | - TOTAL WEIGHT OF PRECAST CONCRETE DECK PANELS | 109 200 kg |
| | - WEIGHT PER PANEL | 13 650 kg |
| | - TOTAL WEIGHT OF STEEL BRIDGE GUARDRAILS | 3 540 kg |
| | - WEIGHT PER SIDE | 1 770 kg |
| - DESIGN CRITERIA | - LIVE LOAD | CL-625 (63 730 KG G.V.W.) ECCENTRICITY IN ACCORDANCE WITH S6-06. |
| | - FATIGUE | CLASS D HIGHWAY |
| | - WIND LOAD | 1080 Pa |
| | - EARTHQUAKE | A = 0,00 |
| | - RAINFALL | 15 mm/ 15 MINUTES |

The diagram illustrates the CL-625 test vehicle configuration. It shows five axles with the following loadings (kN) and spacings (mm):

| AXLE NUMBER | AXLE LOADING (kN) | SPACING (mm) |
|-------------|-------------------|--------------------|
| 1 | 50 | - |
| 2 | 125 | 3600 (from Axle 1) |
| 3 | 125 | 1200 (from Axle 2) |
| 4 | 175 | 6600 (from Axle 3) |
| 5 | 150 | 6600 (from Axle 4) |



- BEARING ANCHOR RODS TO BE POSITIONED AT THE CENTER OF THE HOLES OF THE BASE PLATE AT THE TIME OF GIRDER INSTALLATION.

- CONSTRUCTION LOAD:
 - THE BRIDGE HAS BEEN DESIGNED FOR THE FOLLOWING MAXIMUM CONSTRUCTION LOADS:
 - SELF WEIGHT OF THE STRUCTURE, SUPPORTED AT THE BEARINGS, INCLUDING ALL DECK PANELS IN POSITION BUT UN-GROUTED.
 - A VERTICAL LIVE LOAD OF 489 kN (40 TON EQUIPMENT + 15 TON PANEL) DISTRIBUTED OVER A LENGTH OF 4m, POSITIONED ON THE BRIDGE TO PRODUCE THE MAXIMUM EFFECT; MAXIMUM ECCENTRICITY = 100 mm MEASURED FROM CENTERLINE OF ROAD; ASSUMES MACHINE TRAVELS AT REDUCED SPEED TO MINIMIZE DYNAMIC LOAD EFFECTS.



| | |
|--|--|
| STEEL: | TO CSA G40.21M PLATE: GRADE 350AT CAT 3 PLATE (FOR STEEL GIRDS) GRADE 350A (OTHER STRUCTURAL STEEL) SECTIONS: GRADE 350A HSS: GRADE 350W (COATED) |
| - STRUCTURAL BOLTS: | ASTM A325 TYPE 3 22 DIAMETER U.N. INSTALLED BY "TURN-OF-NUT" METHOD IN ACCORDANCE WITH CAN/CSA-S6-06 |
| - ANCHOR BOLTS: | ASTM A193 GRADE B7 THREADED BOLT. |
| - ANCHOR RODS: | ASTM A307 TYPE B THREADED ROD. |
| - STUDS: | ASTM A108 GRADE 1015, 1018 OR 1020. |
| - STEEL FABRICATION: | ALL WELDS TO BE COMPLETED IN ACCORDANCE WITH CSA W59. ALL BUTT WELDS TO BE INSPECTED BY ULTRASONIC EXAMINATION IN ACCORDANCE WITH CSA W59. FABRICATOR TO BE CERTIFIED FOR DIVISIONS 1 OR 2, IN ACCORDANCE WITH CSA W47.1 MIN. 6mm FILLET WELD UNLESS OTHERWISE NOTED. FIELD WELDING BY COMPANY CERTIFIED TO CSA W47.1, DIVISIONS 1, 2 OR 3. GRIDER SPLICE FAYING SURFACE CLASS A TO CAN/ CSA-60-06. |
| - GALVANIZING: | HARDWARE TO BE GALVANIZED TO ASTM A123M AND ASTM A385, AS NOTED ON DRAWINGS. SAFEGUARD AGAINST EMBRITTEMENT TO ASTM PRACTICE A143. MINIMUM 610 g/m ² THICKNESS OF COATING. |
| - REINFORCING STEEL: (INCLUDING ANCHOR DOWELS) | TO CAN/CSA G30.18-09 GRADE 400W |
| - ALL CONCRETE (PRECAST & CAST-IN-PLACE): | CSA A23.1 EXPOSURE CLASS C1, MINIMUM COMPRESSIVE STRENGTH AT 35 MPa AT 28 DAYS. ALL EXPOSED EDGES OF CONCRETE CHAMFERED 20mm UNLESS NOTED OTHERWISE. PRECAST CONCRETE TO BE FABRICATED IN ACCORDANCE WITH CSA A23.4 BY CSA CERTIFIED PLANT |
| - CONCRETE FINISHES FOR DECKS: | ALL DECK SURFACES MUST BE COARSE TRANSVERSE BROOM FINISHED. |
| - GROUT: | GROUT MIN f_c = 35 MPa AT 28 DAYS TO BE INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS |
| - BEARINGS: | TO CAN/CSA-S6-06: OZONE RESISTING NATURAL RUBBER, (NATURAL POLYISOPRENE) |

| | | | | |
|-----|-----------|-------------------------|-------------------------|----------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0 | 15/04/30 | ISSUED FOR TENDER | W.R. | R.M. |
| No. | Date/Date | Description/Description | Drawn by Dessine par | Approved Approuve |

| | |
|--|--|
| Revision / Revision | |
|  | A Numero de detail B Numero de la feuille |
| Detail number Sheet number | A Numero de detail B Numero de la feuille |
| Linear dimensions in millimetres | Dimensions lineaires en millimetres |
| Consultant's Name Nom de l'expert-conseil | Eng. Stamp Sceau de l'ingenieur |
|  | ORIGINAL SEALED BY ENGINEER ON 23 APRIL 2015 |

Project title/Titre du projet

CANYON CHURCH CAMP BRIDGE
BRIDGE REPLACEMENT
WATERTON LAKES NATIONAL PARK

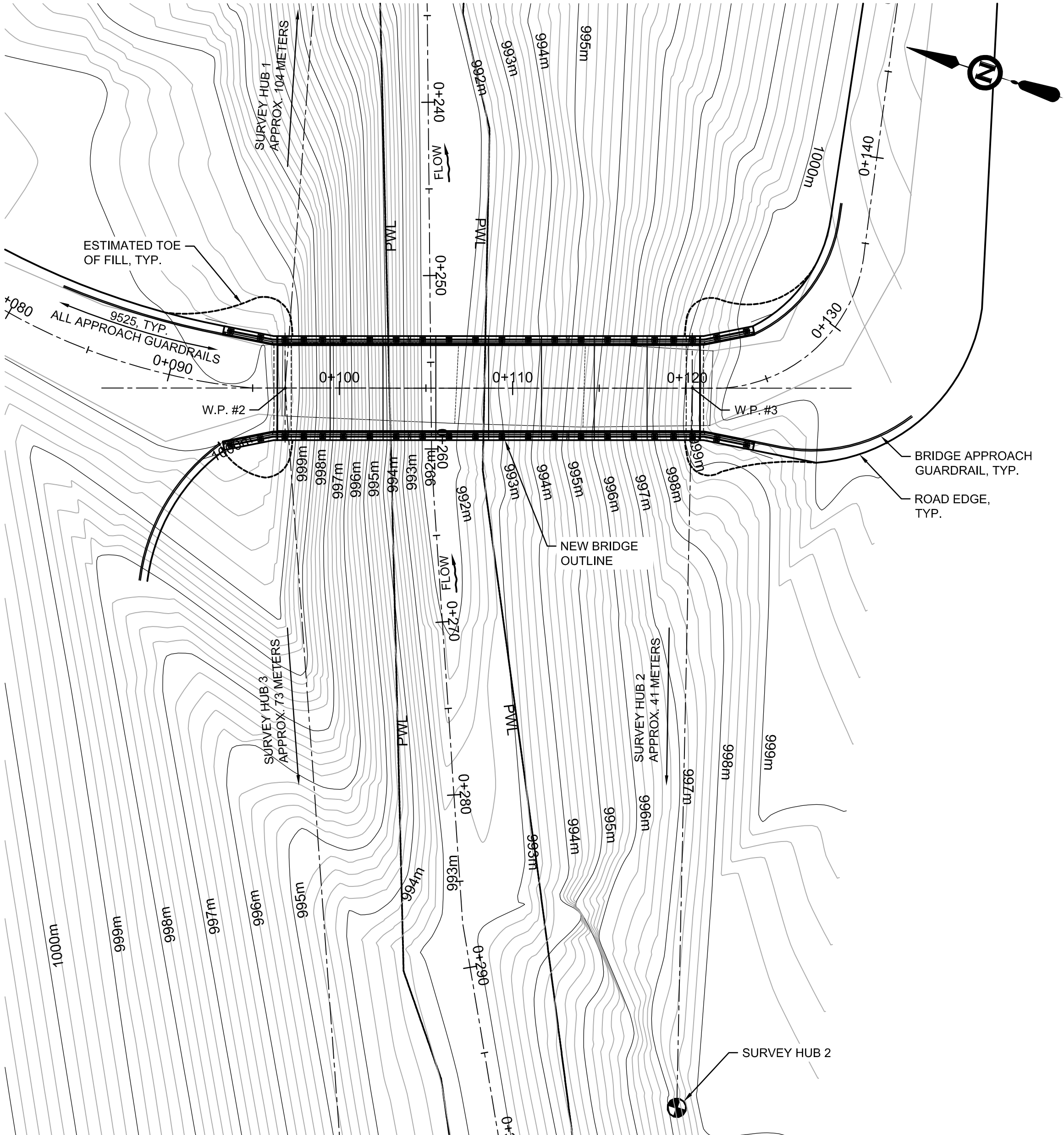
Drawing title/Titre du dessin

GENERAL NOTES

| | | |
|---|--------------------------------|---|
| Surveyed by/Arpenté par ROAD WEST ENGINEERING LTD. | Drawn by/Dessiné par W.R. | Date/Date 30 APRIL 2015 |
| Designed by/Concept par J.H. | Reviewed by/Revise par R.M. | Scale/Echelle |
| Project Manager/Administrateur de Projets K.E.E. | | |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par A.C.N |
| Park Responsible Officer/Agent Responsable | | Project Manager/Administrateur de Projets |
| Project No./No. du projet WNP13-04-024 | Asset No./No. du bien | Sheet No./ de la feuille 201 |
| Drawing Reference No./No. de référence du dessin | | |

NORTH END

SOUTH END



PLAN

1:200

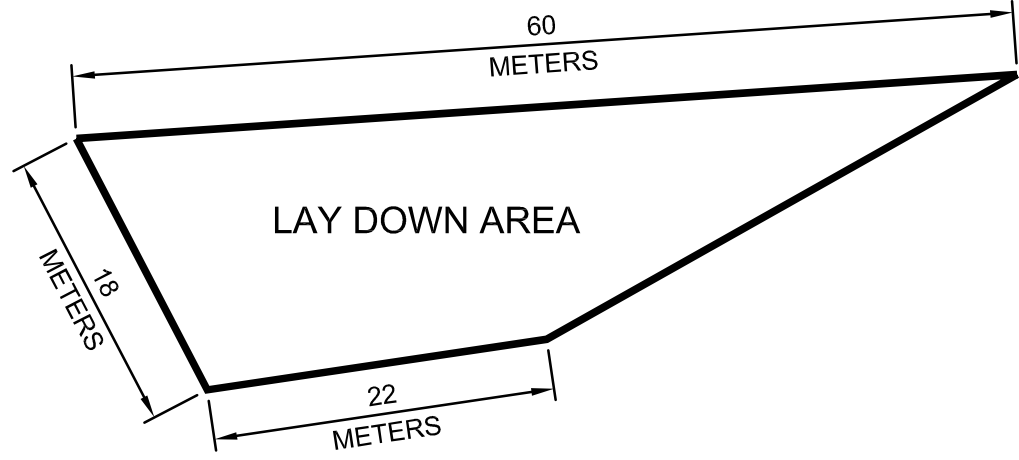
BRIDGE



PLAN

1:2000

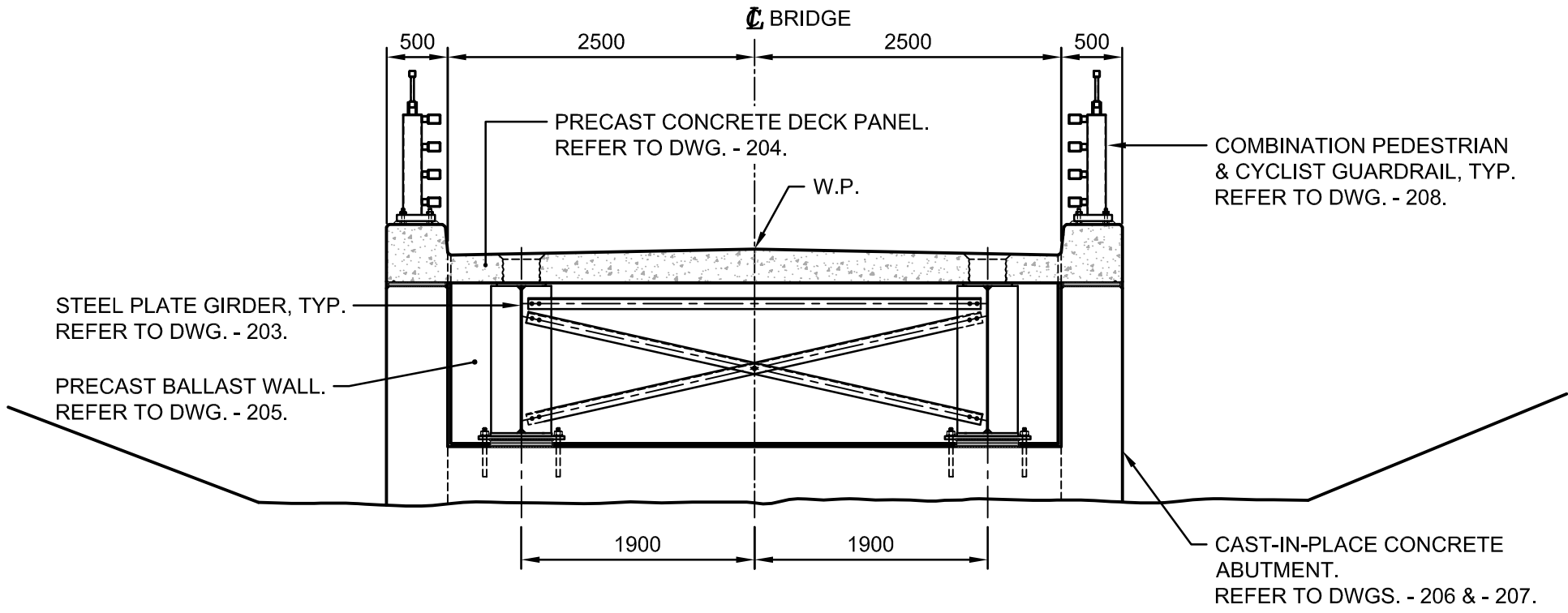
SITE LAY-DOWN AREA



SCHEMATIC

1:500

SITE LAY-DOWN AREA



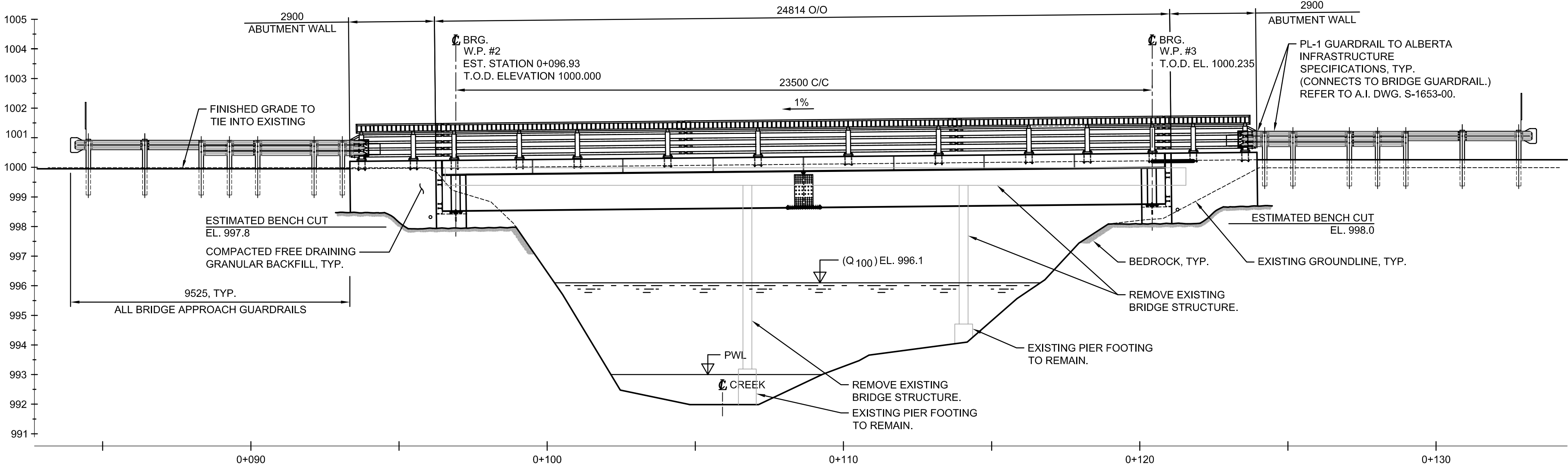
ELEVATION

1:50

TYPICAL ABUTMENT

NORTH END

SOUTH END



ELEVATION

1:100

BRIDGE

APEGGA Permit to Practice P 3979

NOTES:

- SURVEY SUPPLIED BY ROADS WEST ENGINEERING LTD. AND DATED 20 MARCH 2015.
- CONTOUR INTERVALS ARE 0.2 METERS.
- DATUM: LOCAL
- FOR GENERAL NOTES, REFER TO DRAWING - 201.
- SURVEY HUB BENCH MARKS:

SURVEY HUB 1
N 5020.733
E 5097.750
EL. 993.428

SURVEY HUB 2
N 4961.685
E 4964.319
EL. 997.225

SURVEY HUB 3
N 4968.737
E 4929.853
EL. 996.142

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

| | | | | |
|-----|-----------|-------------------------|----------------------|-------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0 | 15/04/30 | ISSUED FOR TENDER | W.R. | R.M. |
| No. | Date/Date | Description/Description | Drawn by Dessiné par | Approved Approuvé |

Revision / Revision

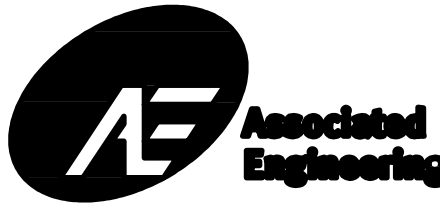
A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions in millimetres Dimensions linéaires en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur



ORIGINAL SEALED
BY ENGINEER ON
23 APRIL 2015



Parks Canada
Strategic Asset
Management,
Western and Northern
Region

Parcs Canada
Gestion Stratégique
des Biens,
Région de l'Ouest et
du Nord

Canada

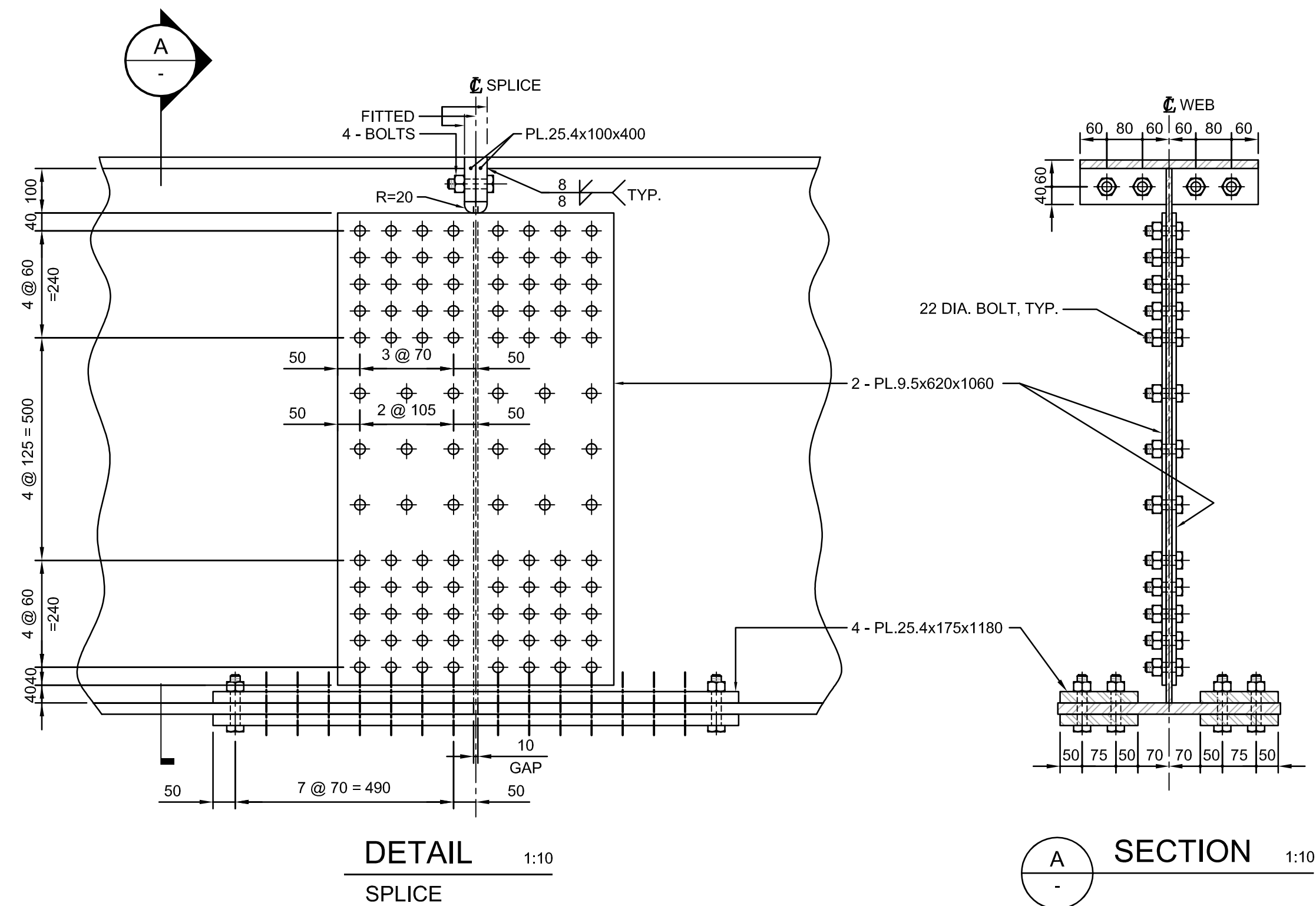
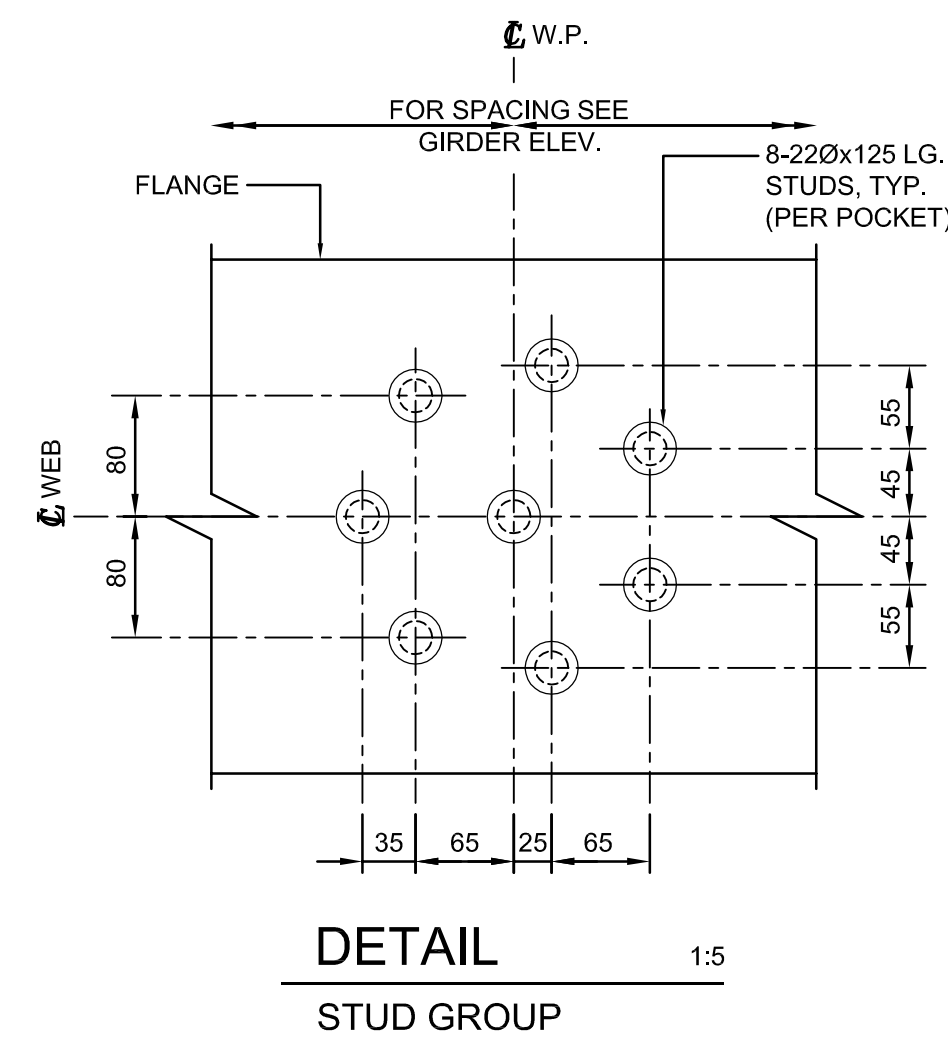
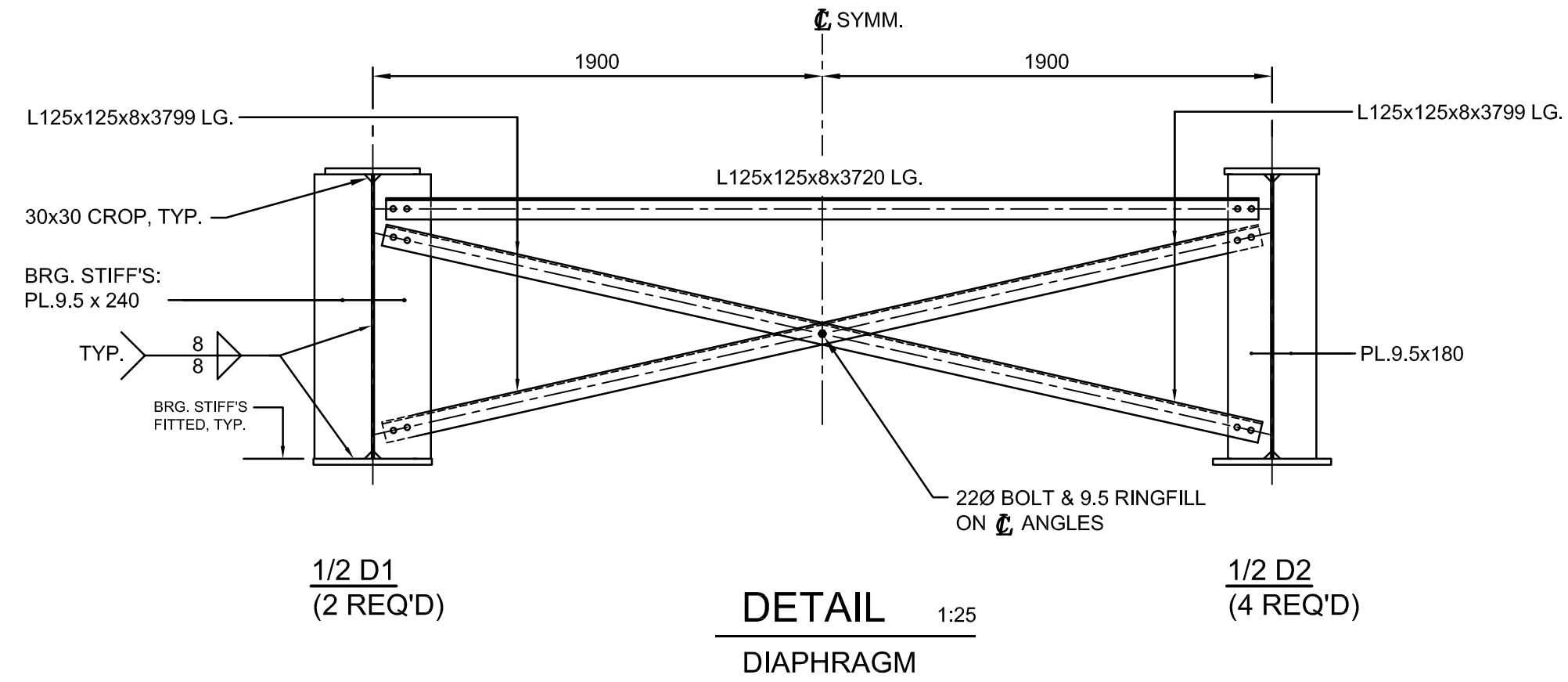
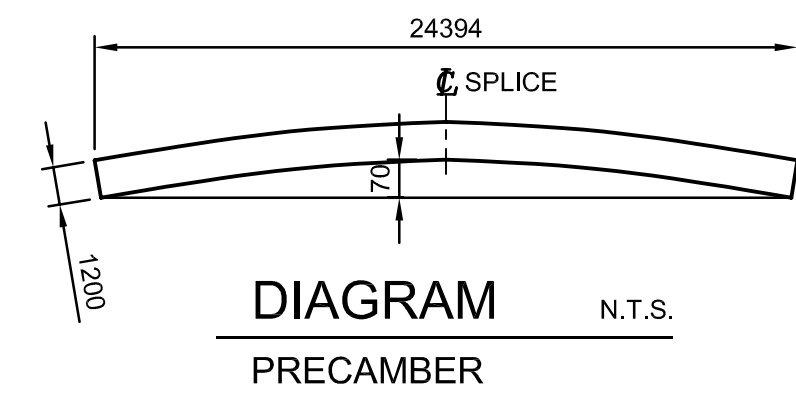
Project title/Titre du projet

CANYON CHURCH CAMP BRIDGE
BRIDGE REPLACEMENT
WATERTON LAKES NATIONAL PARK

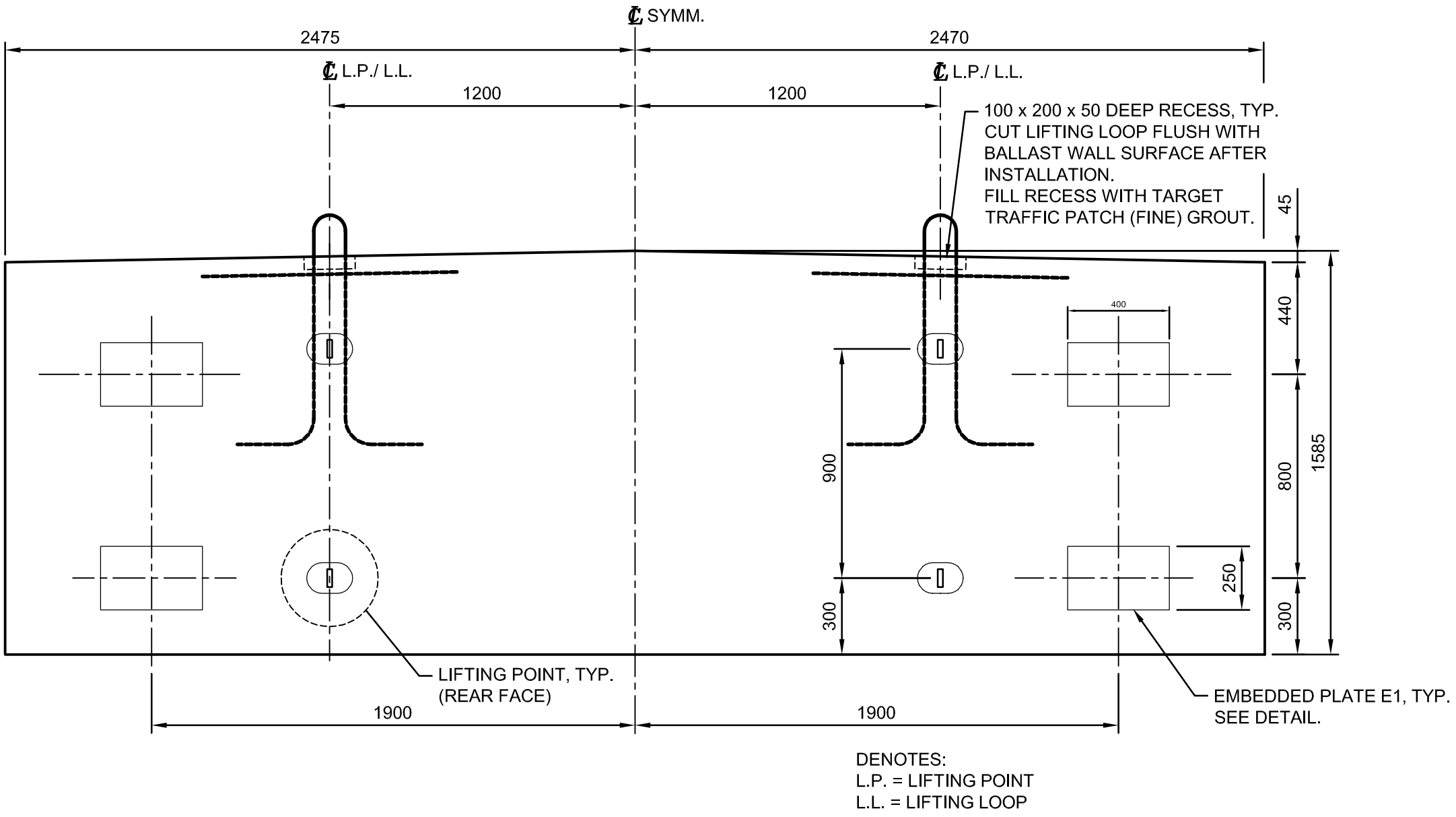
Drawing title/Titre du dessin

GENERAL ARRANGEMENT

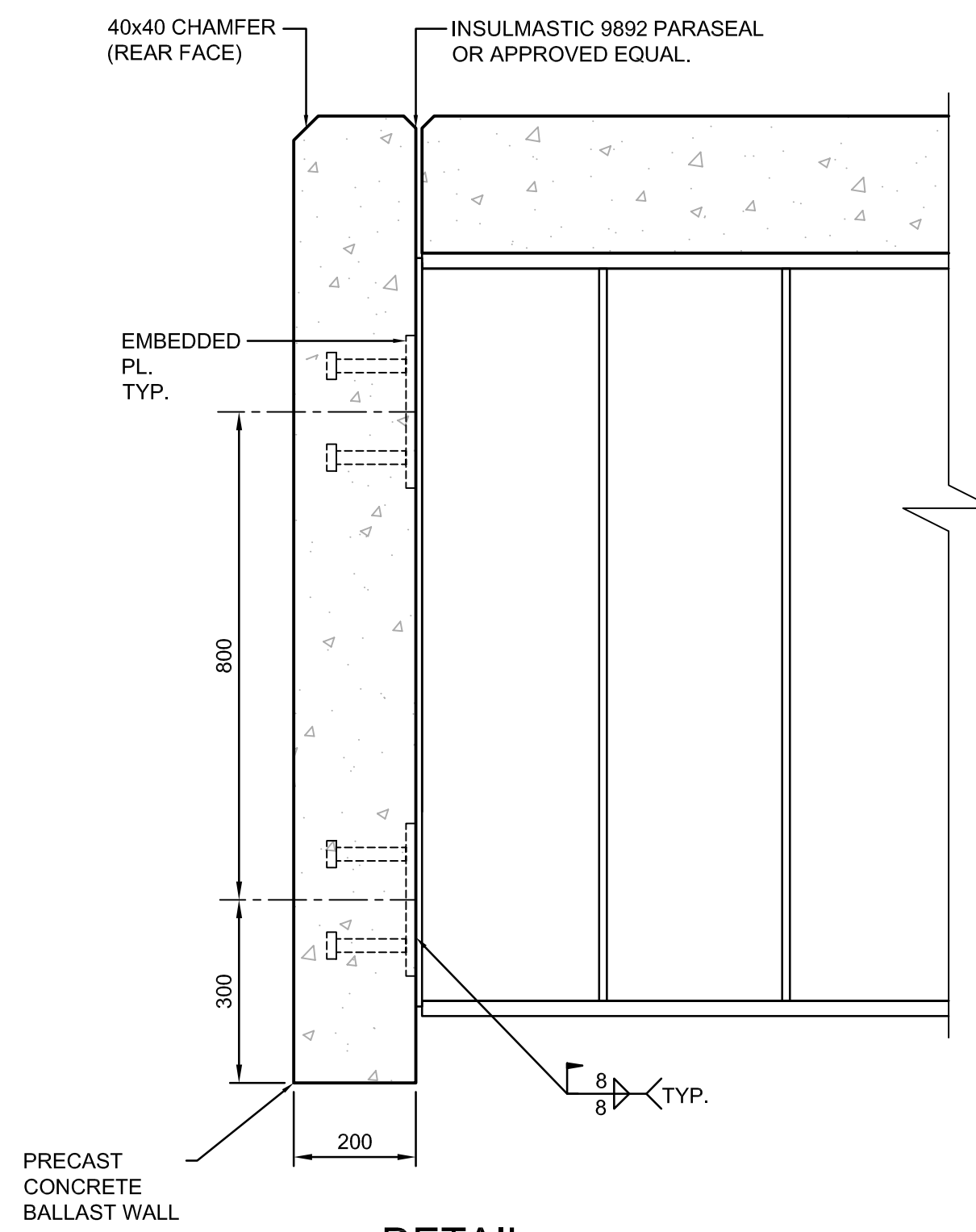
| | | |
|---|--------------------------------|---|
| Surveyed by/Arpenté par ROAD WEST ENGINEERING LTD. | Drawn by/Dessiné par W.R. | Date/Date 30 APRIL 2015 |
| Designed by/Concept par J.H. | Reviewed by/Revisé par R.M. | Scale/Echelle |
| Project Manager/Administrateur de Projets K.E.E. | | |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par A.C.N |
| Park Responsible Officer/Agent Responsable | | Project Manager/Administrateur de Projets |
| Project No./No. du projet WNP13-04-024 | Asset No./No. du bien | Sheet No./ No. de la feuille 202 |
| Drawing Reference No./No. de référence du dessin | | |



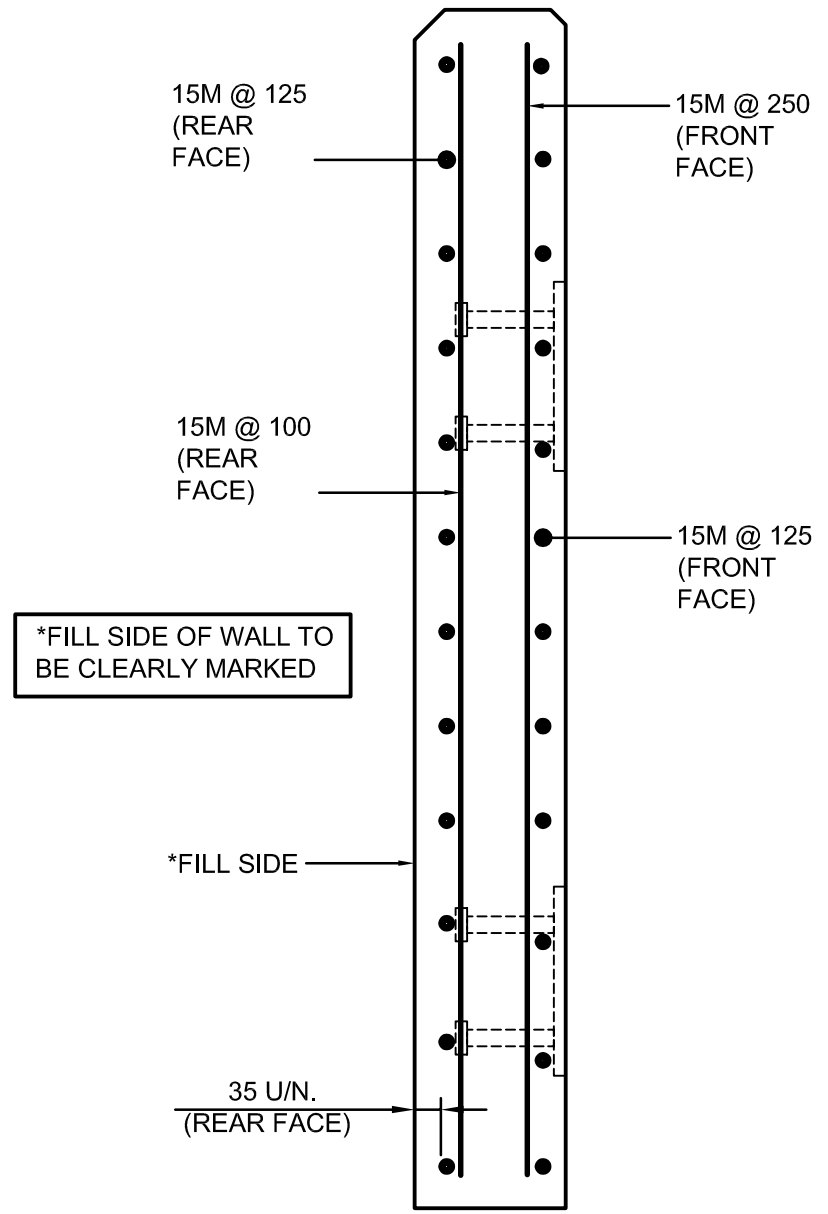
| | | | | | |
|--|--|---------------------------------------|---|--|--|
| Surveyed by/Arpente par ROAD WEST ENGINEERING LTD. | | Drawn by/Dessine par W.R. | | Date/Date 30 APRIL 2015 | |
| Designed by/Concept par J.H. | | Reviewed by/Revisé par R.M. | | Scale/Echelle | |
| Project Manager/Administrateur de Projets K.E.E. | | | | | |
| Client Acceptance/Acceptation du client | | | Approved by/Approuvé par <div style="text-align: center;">A.C.N</div> | | |
| _____ Park Responsible Officer/Agent Responsable | | | _____ Project Manager/Administrateur de Projets | | |
| Project No./No. du projet WNP13-04-024 | | Asset No./No. du bien | | Sheet No./No. de la feuille <div style="text-align: center; font-size: 2em;">203</div> | |
| Drawing Reference No./No. de reference du dessin | | | | | |



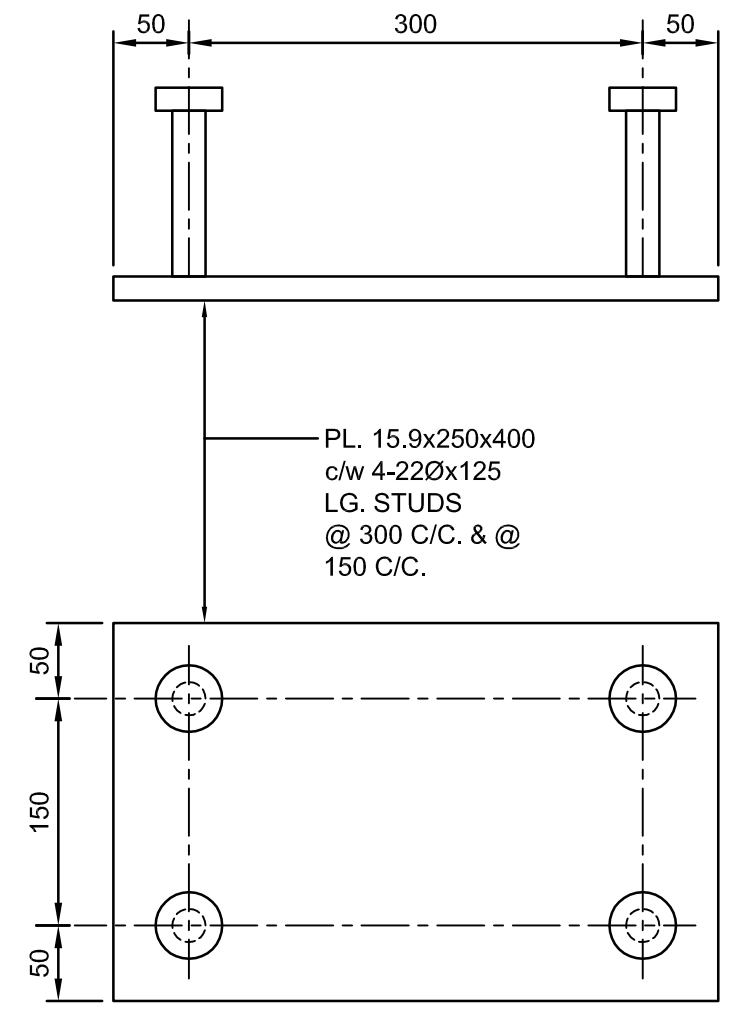
ELEVATION
BALLAST WALL



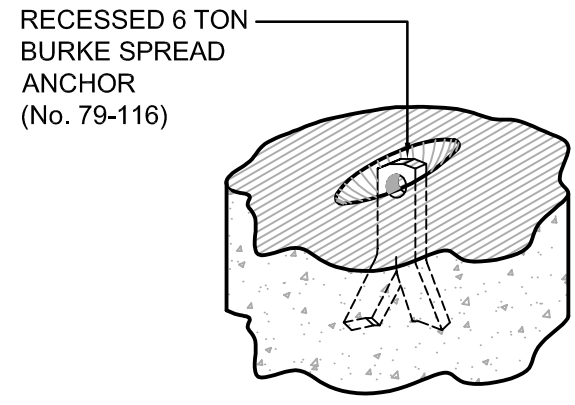
DETAIL
BALLAST WALL/ GIRDER CONNECTION



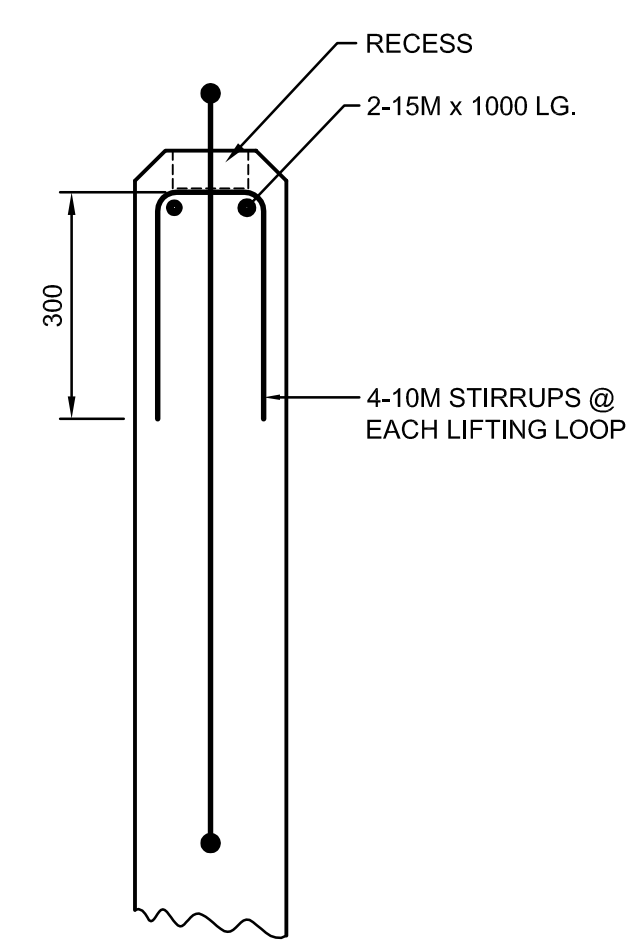
DETAIL
BALLAST WALL REINFORCEMENT



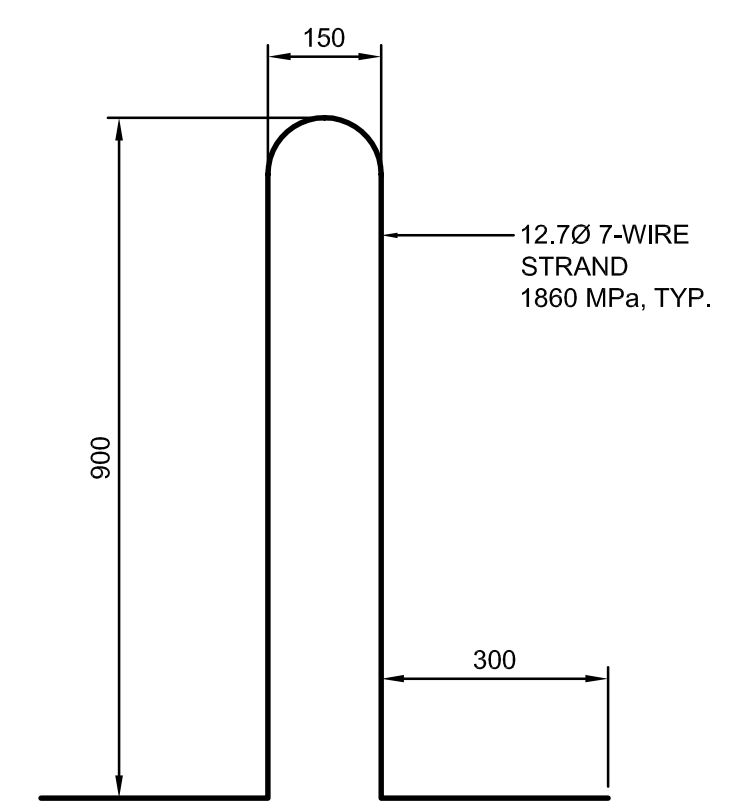
DETAIL
EMBEDDED PLATE E1



DETAIL
LIFTING POINT



DETAIL
ADDITIONAL REINFORCEMENT @ TOP LIFTING HOOK





DETAIL
TYPICAL LIFTING HOOK

NOTES:
- FOR GENERAL NOTES, REFER TO DRAWING - 201.

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

| | | | | |
|-----|-----------|-------------------------|----------------------|-------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0 | 15/04/30 | ISSUED FOR TENDER | W.R. | R.M. |
| No. | Date/Date | Description/Description | Drawn by Dessiné par | Approved Approuvé |

| Revision / Revision | | | | |
|--|---------------|--|--|--|
| A B | Detail number | A Numéro de détail | | |
| | Sheet number | B Numéro de la feuille | | |
| Linear dimensions in millimetres | | Dimensions linéaires en millimètres | | |
| Consultant's Name Nom de l'expert-conseil | | Eng. Stamp Scieu de l'ingénieur | | |
|  | | ORIGINAL SEALED BY ENGINEER ON 23 APRIL 2015 | | |

| | |
|--|--|
|  Parks Canada Strategic Asset Management, Western and Northern Region | Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord |
|--|--|

Canada

Project title/Titre du projet

CANYON CHURCH CAMP BRIDGE
BRIDGE REPLACEMENT
WATERTON LAKES NATIONAL PARK

Drawing title/Titre du dessin

PRECAST CONCRETE
BALLAST WALL DETAILS

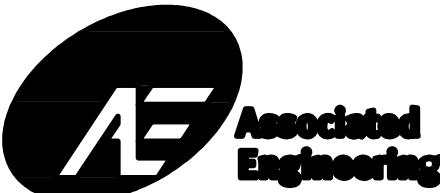
| | | |
|---|--------------------------------|---|
| Surveyed by/Arpente par ROAD WEST ENGINEERING LTD. | Drawn by/Dessiné par W.R. | Date/Date 30 APRIL 2015 |
| Designed by/Concept par J.H. | Reviewed by/Revisé par R.M. | Scale/Echelle |
| Project Manager/Administrateur de Projets K.E.E. | | |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par A.C.N. |
| Park Responsible Officer/Agent Responsable | | Project Manager/Administrateur de Projets |
| Project No./No. du projet WNP13-04-024 | Asset No./No. du bien | Sheet No./No. de la feuille 205 |
| Drawing Reference No./No. de référence du dessin | | |


NOTES:
- FOR GENERAL NOTES, REFER TO DRAWING - 201.

Contractor to verify all dimensions
& conditions on site and immediately
notify the engineer of all discrepancies.

| | | | | |
|-----|-----------|-------------------------|-------------------------|----------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0 | 15/04/30 | ISSUED FOR TENDER | W.R. | R.M. |
| No. | Date/Date | Description/Description | Drawn by Dessiné par | Approved Approuvé |

Revision / Revision

| | | |
|--|-------------------------------|--|
| <div><div>A</div><div>B</div></div> | Detail number Sheet number | A Numéro de détail B Numéro de la feuille |
| Linear dimensions in millimètres | | Dimensions linéaires en millimètres |
| Consultant's Name Nom de l'expert-conseil | | Eng. Stamp Sceau de l'ingénieur |
|  | | ORIGINAL SEALED BY ENGINEER ON 23 APRIL 2015 |

| | |
|--|--|
|  Parks Canada | Parcs Canada |
| Strategic Asset Management, Western and Northern Region | Gestion Stratégique des Biens, Région de l'Ouest et du Nord |

Canada

Project title/Titre du projet

CANYON CHURCH CAMP BRIDGE
BRIDGE REPLACEMENT
WATERTON LAKES NATIONAL PARK

Drawing title/Titre du dessin

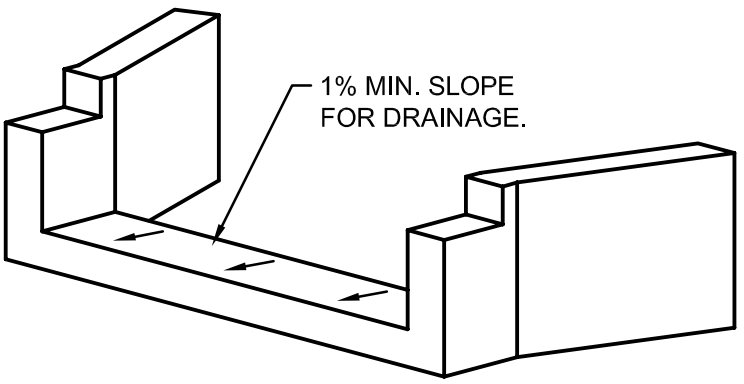
CAST-IN-PLACE CONCRETE
ABUTMENT DETAILS – SHEET 1

| | | |
|---|--------------------------------|----------------------------|
| Surveyed by/Arpente par ROAD WEST ENGINEERING LTD. | Drawn by/Dessiné par W.R. | Date/Date 20 APRIL 2015 |
| Designed by/Concept par J.H. | Reviewed by/Revisé par R.M. | Scale/Echelle |

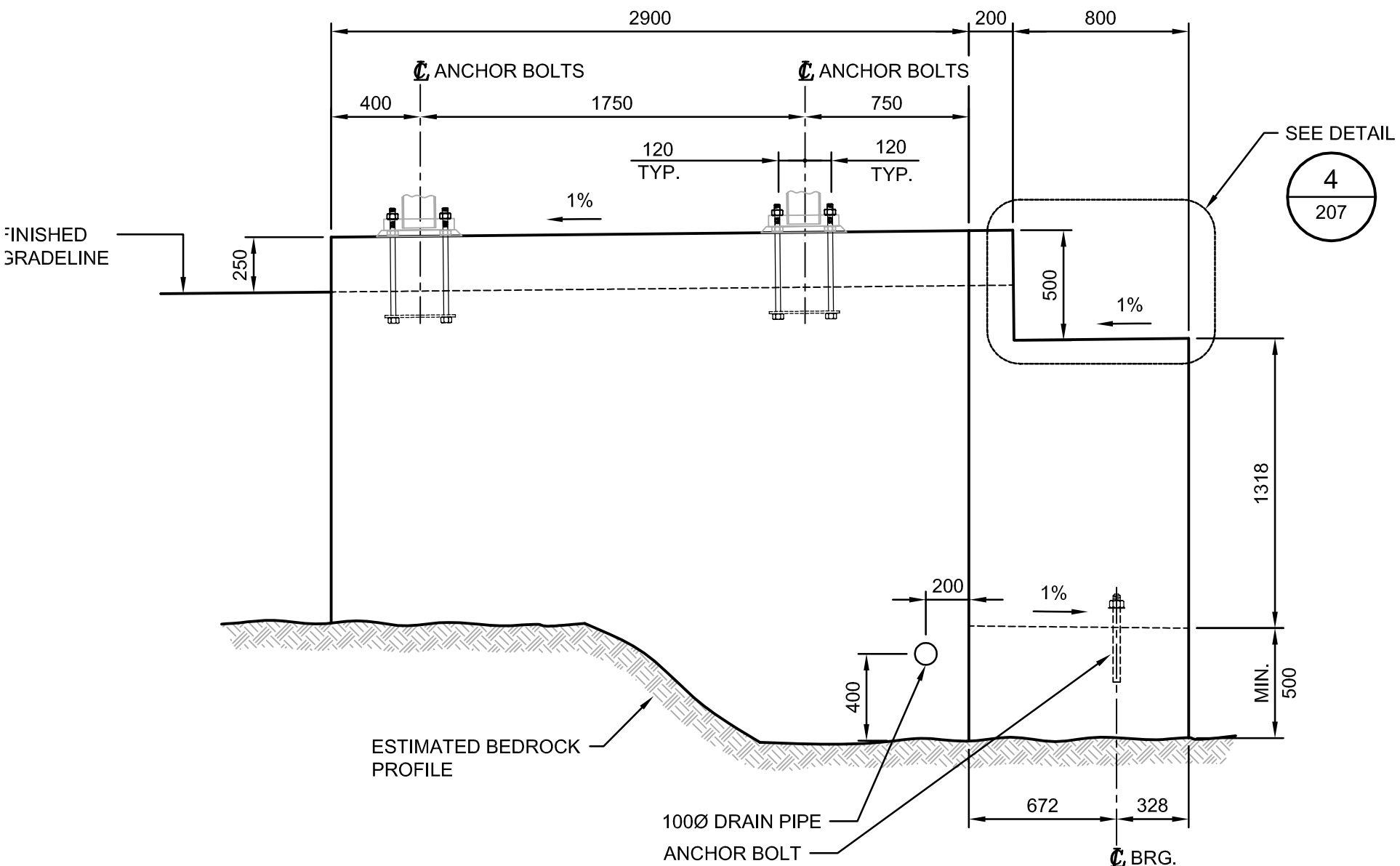
Project Manager/Administrateur de Projets
K.E.E.

| | |
|--|---|
| Client Acceptance/Acceptation du client | Approved by/Approuvé par A.C.N |
| Park Responsible Officer/Agent Responsable | Project Manager/Administrateur de Projets |

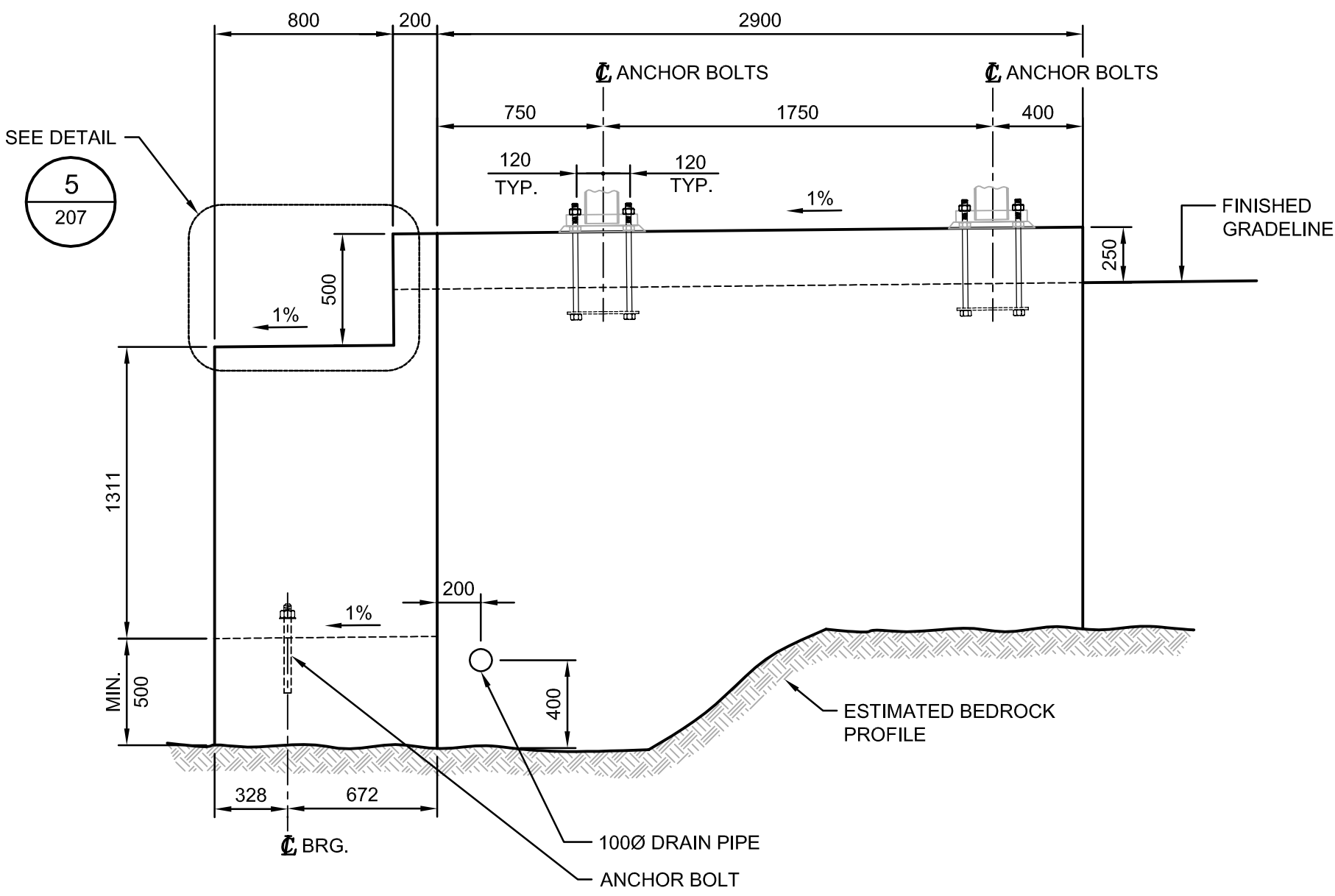
| | | |
|--|-----------------------|--|
| Project No./No. du projet WNP13-04-024 | Asset No./No. du bien | Sheet No./ No. de la feuille 206 |
| Drawing Reference No./No. de référence du dessin | | |



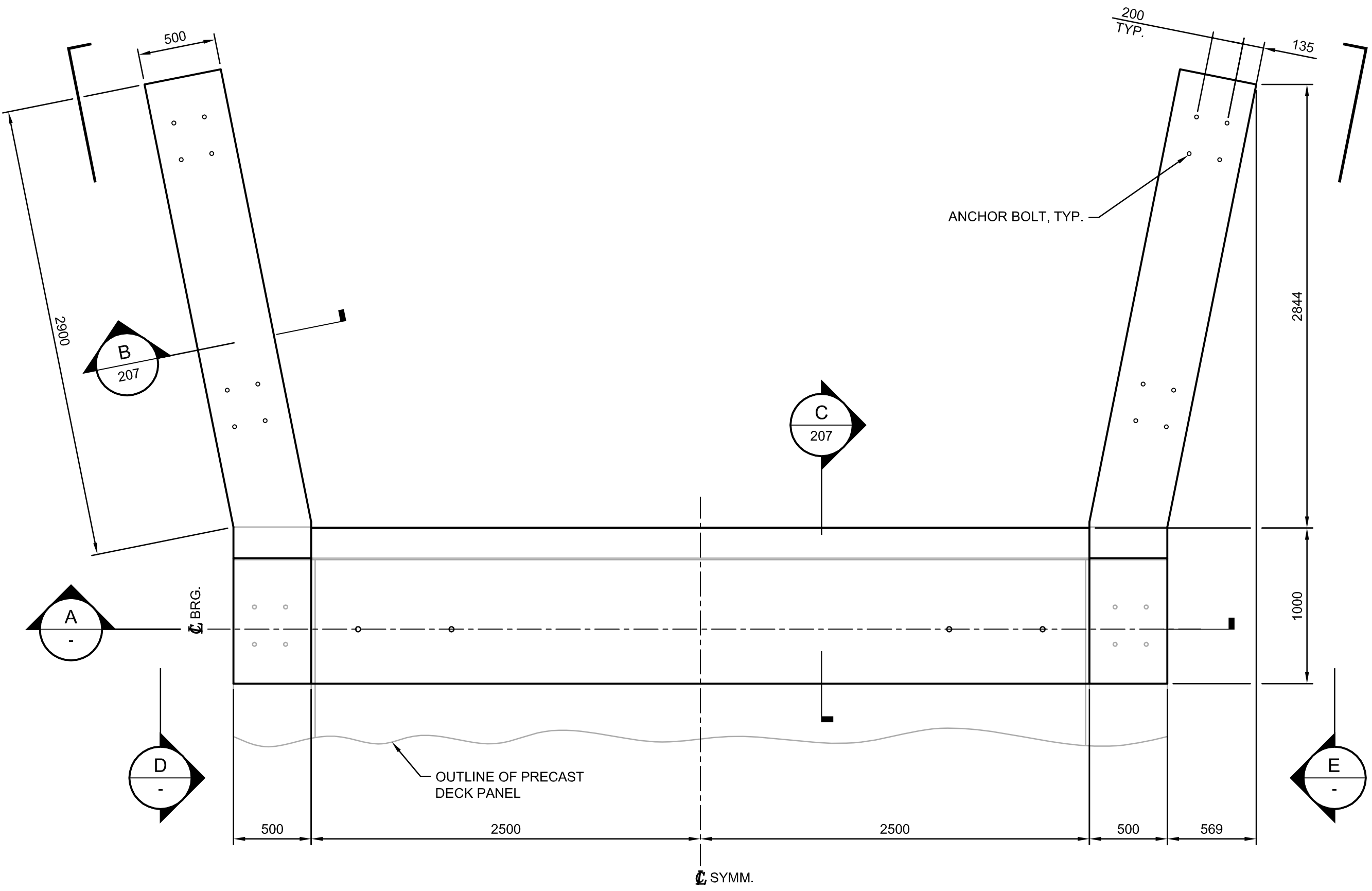
SCHEMATIC
TYPICAL ABUTMENT



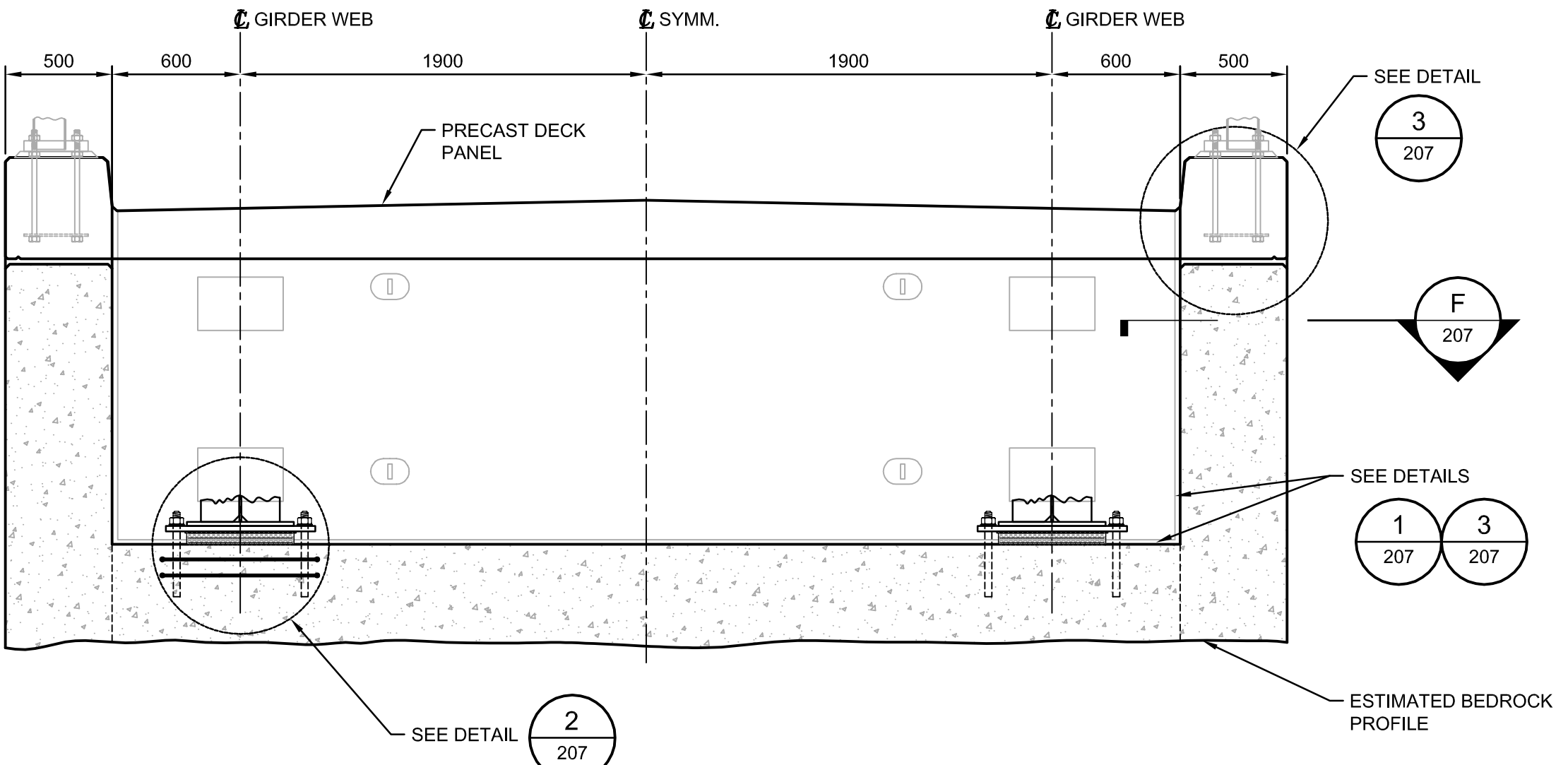
SECTION
NORTH ABUTMENT SHOWN



SECTION
SOUTH ABUTMENT SHOWN



PLAN
TYPICAL ABUTMENT



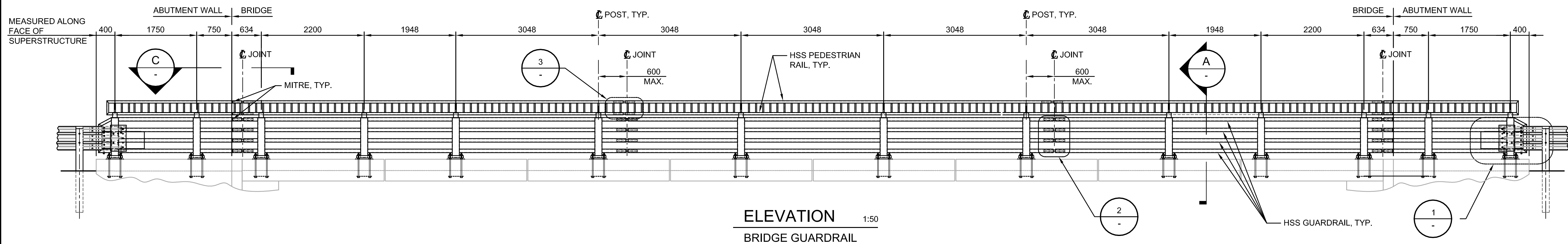
SECTION

| | | |
|---|---|--|
| <h1 style="margin: 0;">CAST-IN-PLACE CONCRETE ABUTMENT DETAILS - SHEET 2</h1> | | |
| Surveyed by/Arpente par ROAD WEST ENGINEERING LTD. | Drawn by/Dessine par W.R. | Date/Date 30 APRIL 2015 |
| Designed by/Concept par J.H. | Reviewed by/Revisé par R.M. | Scale/Echelle |
| Project Manager/Administrateur de Projets K.E.E. | | |
| Client Acceptance/Acceptation du client | Approved by/Approuve par <div style="text-align: center; margin-top: 20px;">A.C.N</div> | |
| Part Responsible Officer/Agent Responsable WNP13-04-024 | Project Manager/Administrateur de Projets | |
| Project No./No. du projet WNP13-04-024 | Asset No./No. du-bien | Sheet No./No. de la feuille <div style="font-size: 2em; font-weight: bold; text-align: right;">207</div> |
| Drawing Reference No./No. de reference du dessin | | |

NOTES:

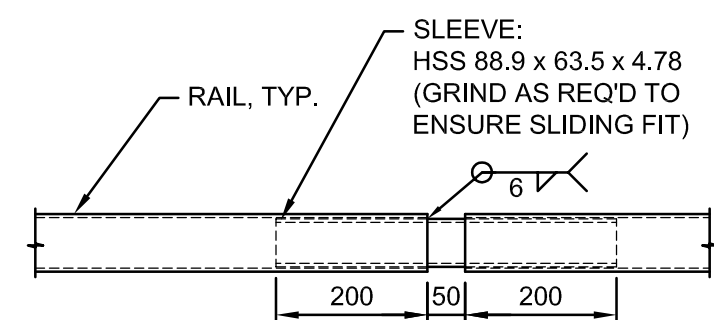
- FOR GENERAL NOTES, REFER TO DRAWING - 201.

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

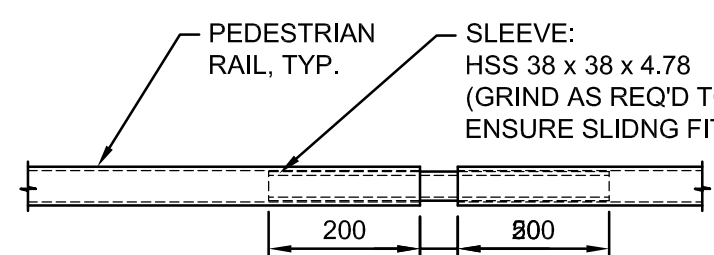


NOTES:

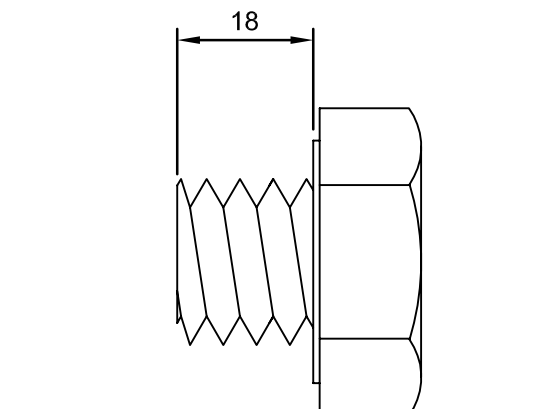
1. BRIDGE GUARDRAIL TO BE POWDER COATED AND GALVANIZED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
2. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED.
3. ENSURE GOOD RAIL AND POST ALIGNMENT PRIOR TO FIELD WELDING.
4. NUMBER OF EXPANSION JOINTS TO BE DETERMINED BY FABRICATOR.
5. INSTALL POSTS PERPENDICULAR TO CURB.



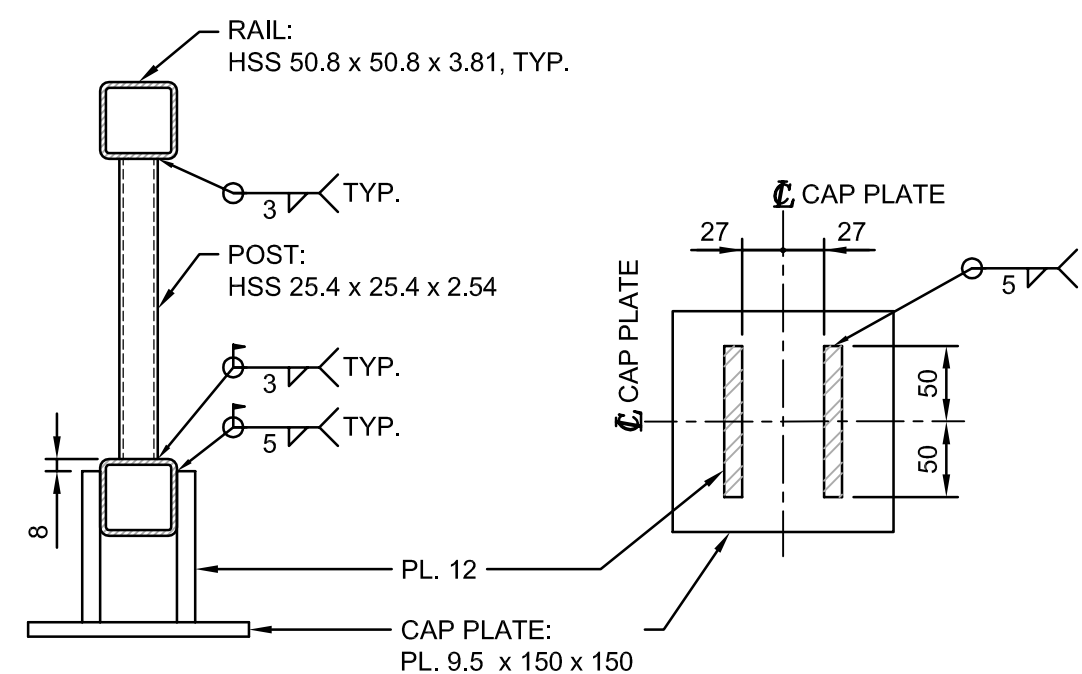
2
-
DETAIL
RAIL EXPANSION SLEEVE



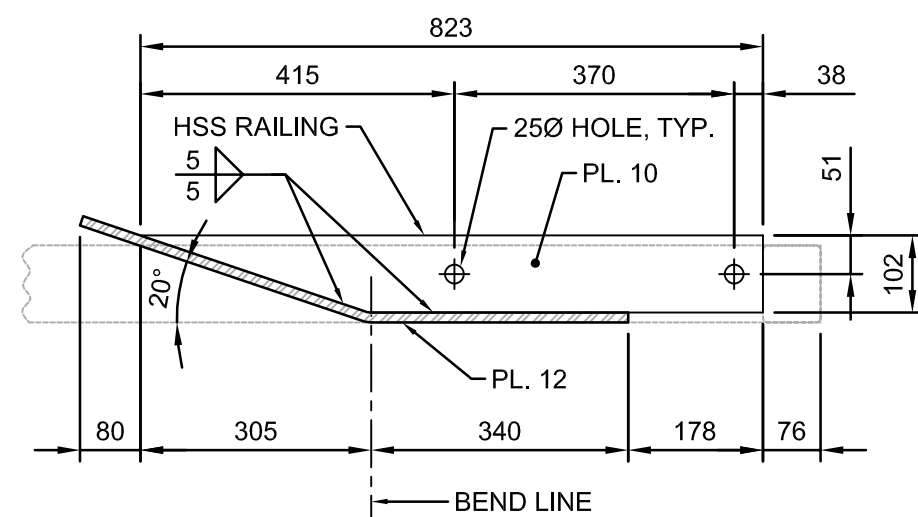
3
-
DETAIL
PEDESTRIAN RAIL EXPANSION SLEEVE



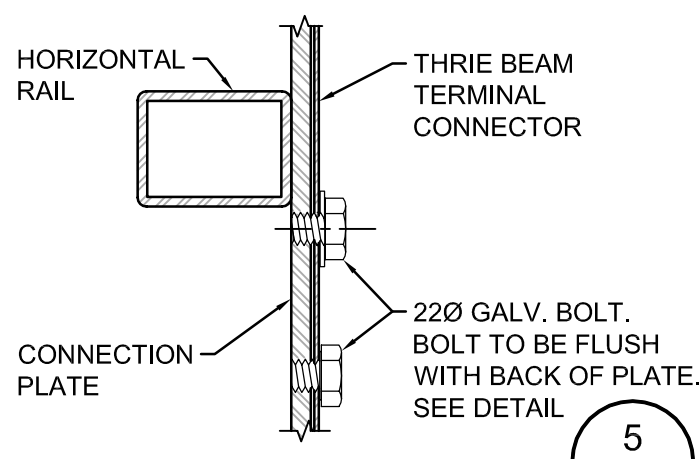
5
-
DETAIL



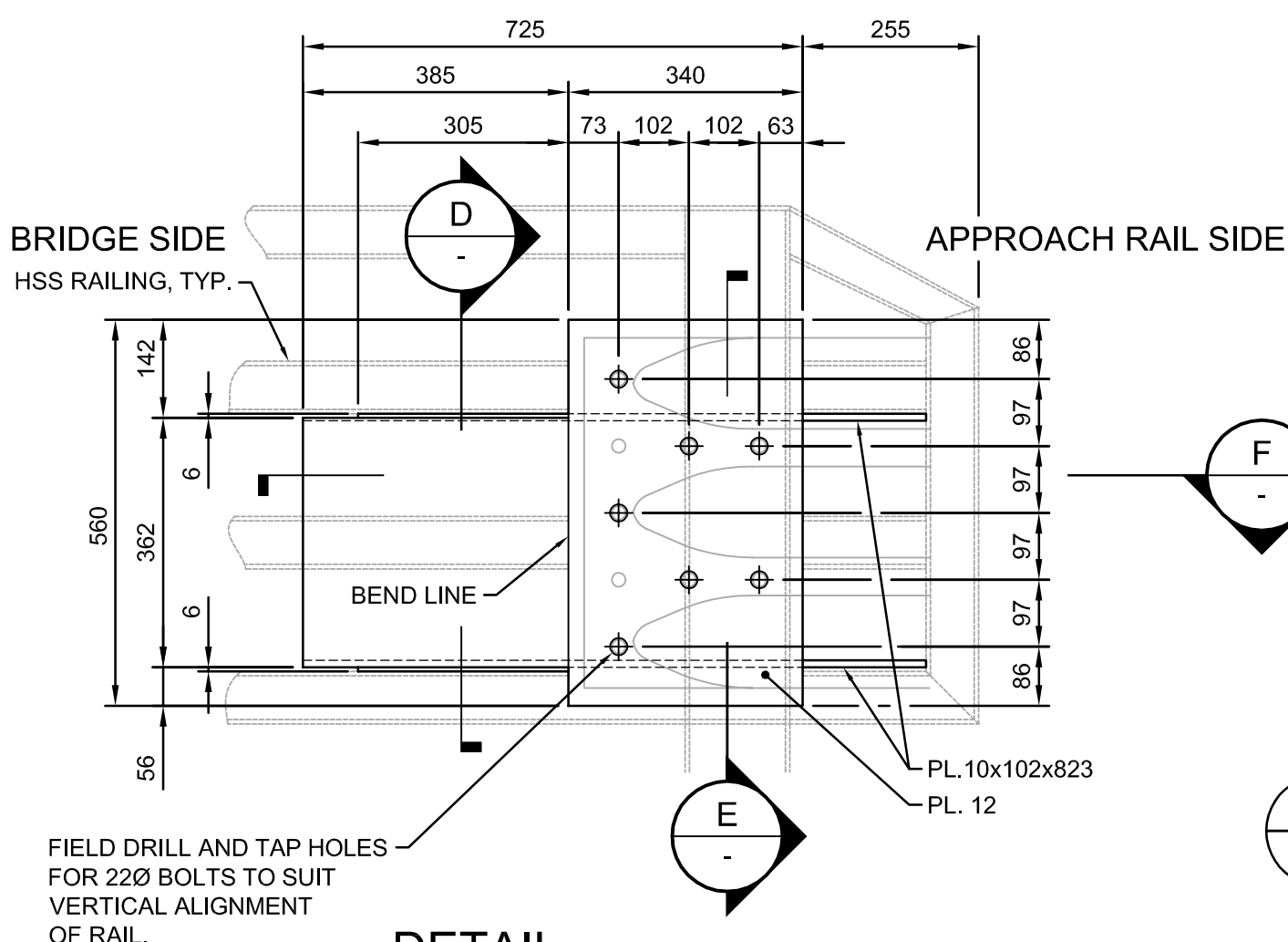
4
-
DETAIL
PEDESTRIAN RAIL



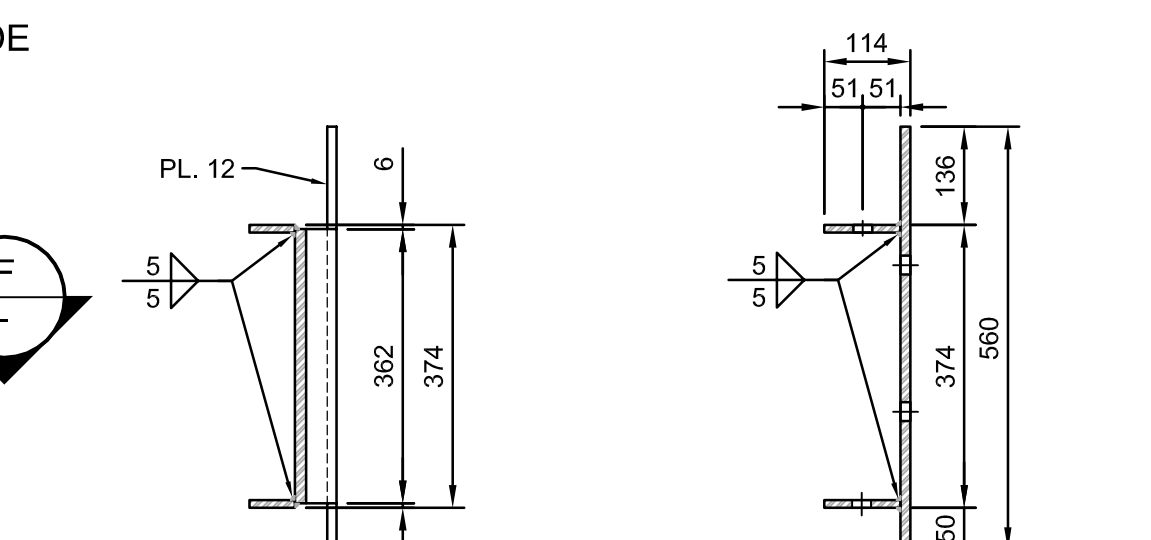
F
-
SECTION



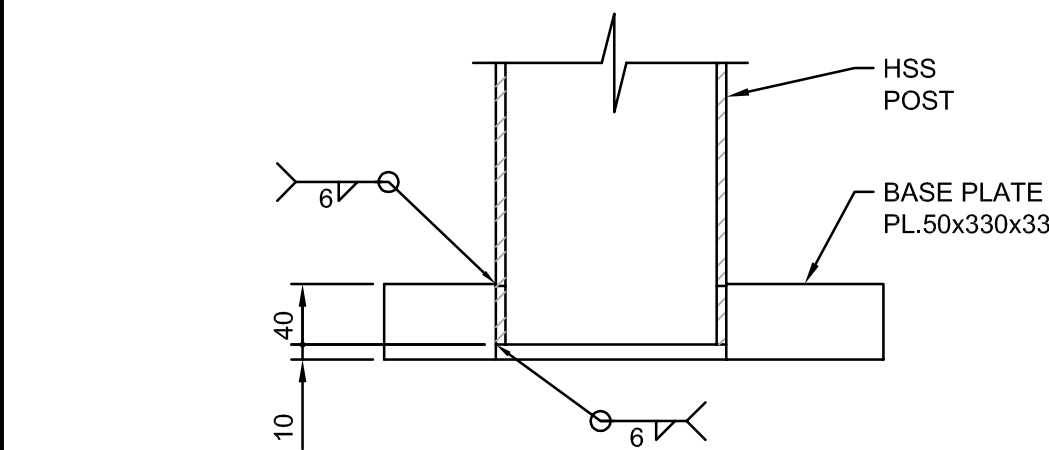
4
-
DETAIL



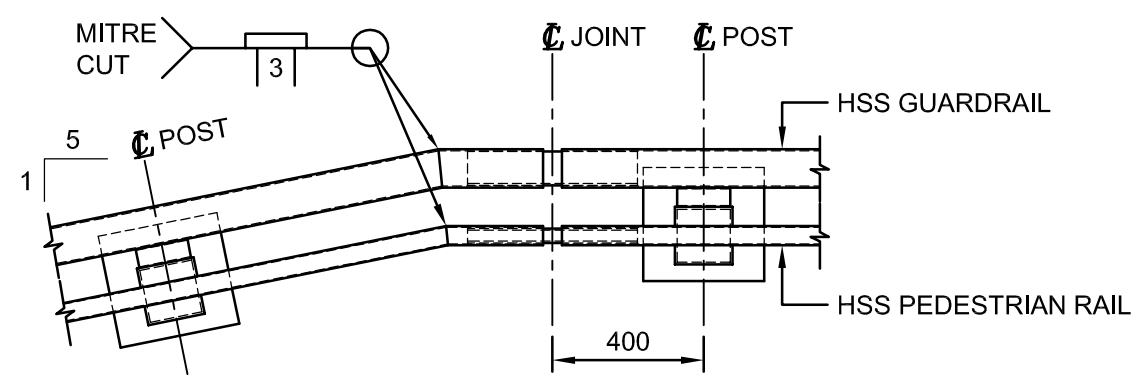
D
-
SECTION



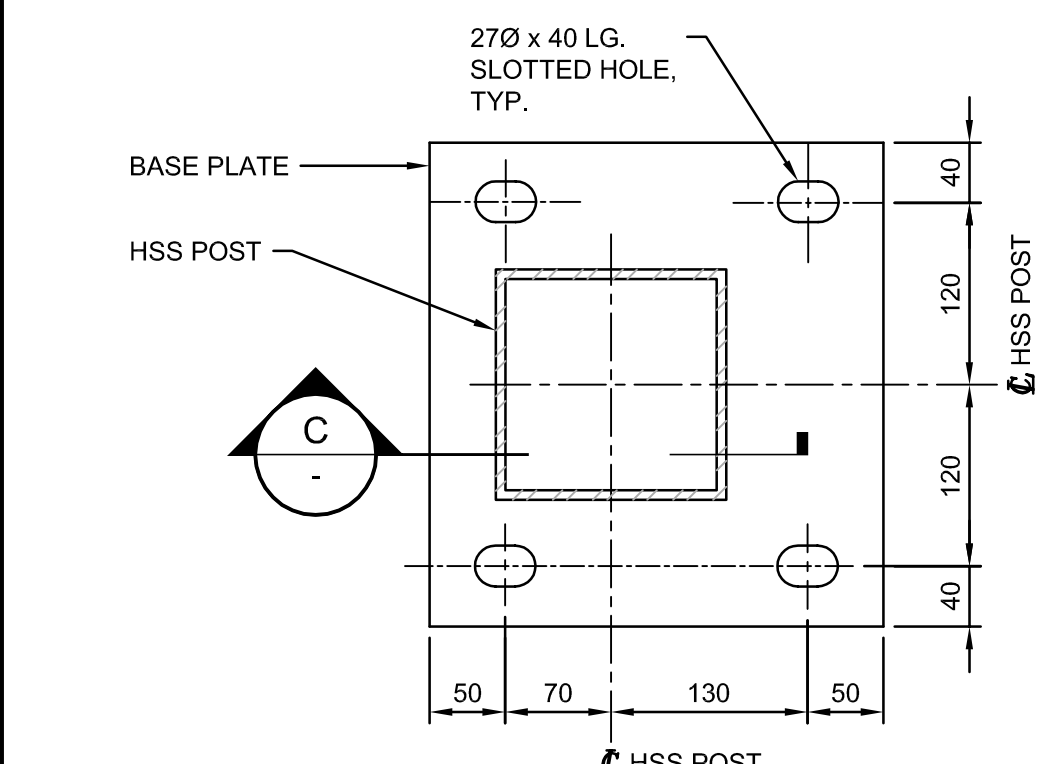
E
-
SECTION



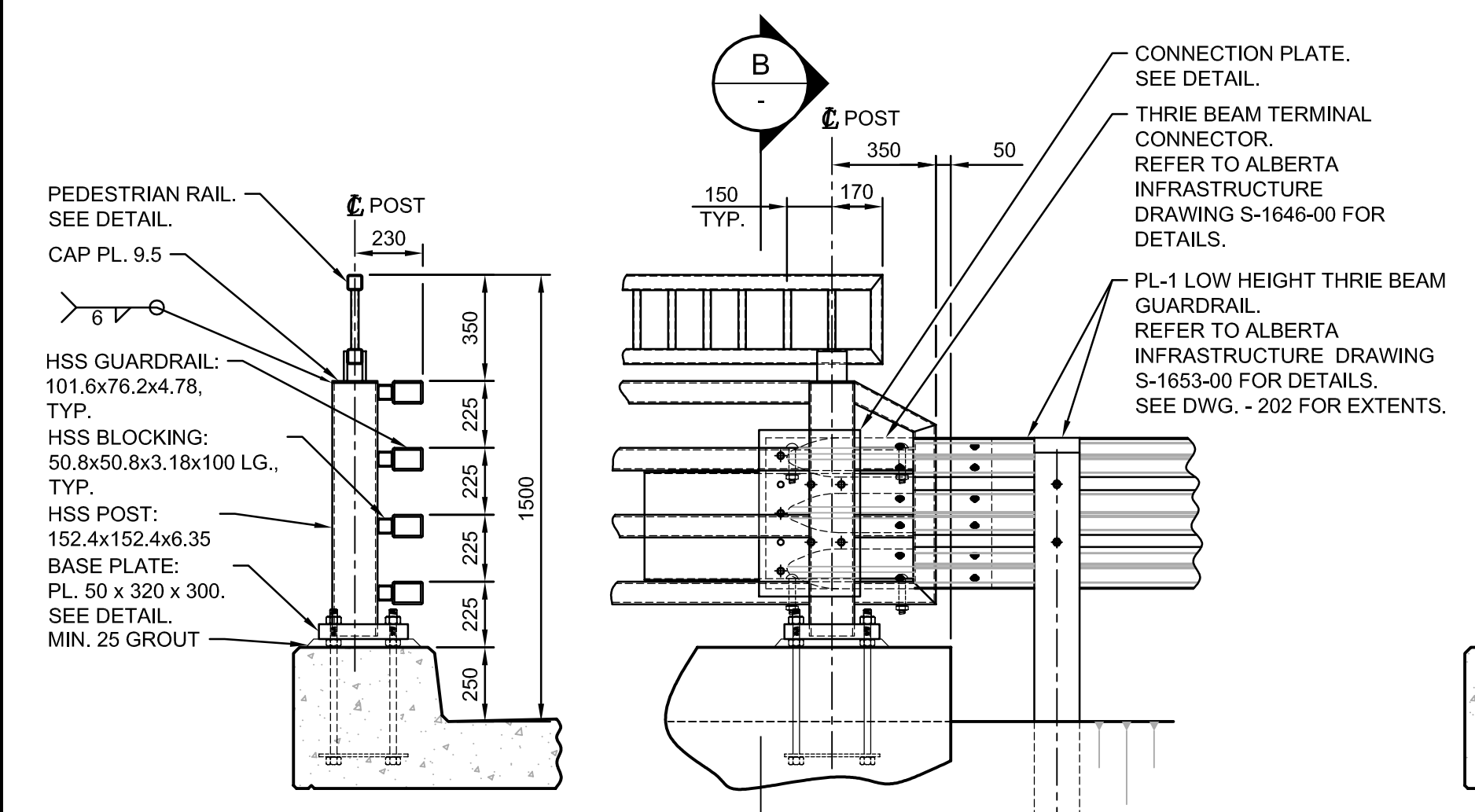
C
-
SECTION



C
-
SECTION



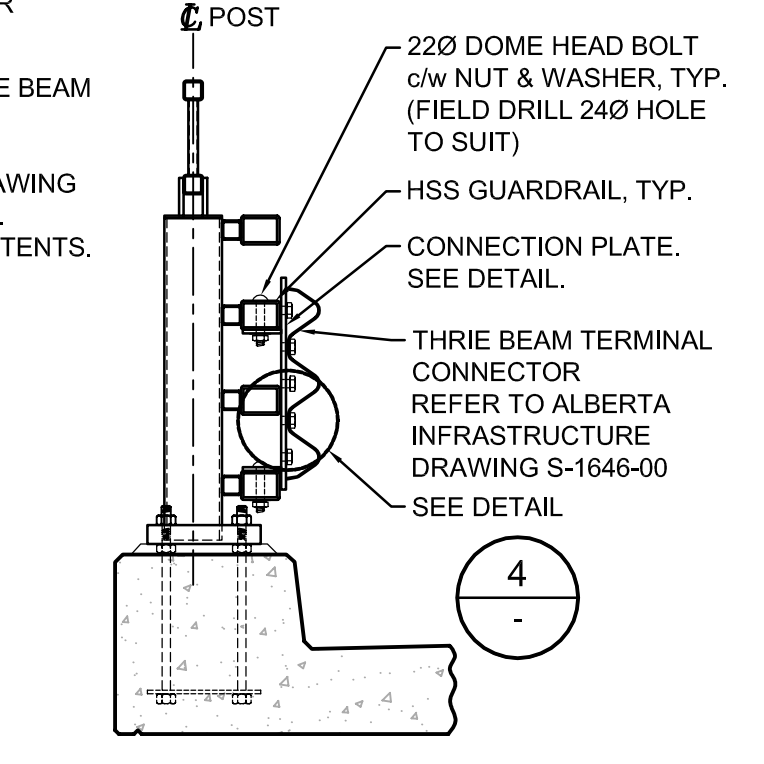
C
-
DETAIL
BASE PLATE



A
-
SECTION
RAILING

A
-
SECTION
RAILING

1
-
ELEVATION
RAILING END



B
-
SECTION
THRIE BEAM TO RAILING CONNECTION

DETAIL
CONNECTION PLATE

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| 0 | 15/04/30 | ISSUED FOR TENDER | W.R. | R.M. |
|-----|-----------|-------------------------|----------------------|-------------------|
| No. | Date/Date | Description/Description | Drawn by Dessiné par | Approved Approuvé |

| Revision / Revision |
|---------------------|
|---------------------|

| | | |
|---|---------------|------------------------|
| A | Detail number | A Numéro de détail |
| B | Sheet number | B Numéro de la feuille |

| | |
|----------------------------------|-------------------------------------|
| Linear dimensions in millimetres | Dimensions linéaires en millimètres |
|----------------------------------|-------------------------------------|

| | |
|--|------------------------------------|
| Consultant's Name Nom de l'expert-conseil | Eng. Stamp Sceau de l'ingénieur |
|--|------------------------------------|



| | |
|--|--|
| Parks Canada Strategic Asset Management, Western and Northern Region | Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord |
|--|--|

Canada

Project title/Titre du projet

CANYON CHURCH CAMP BRIDGE
BRIDGE REPLACEMENT
WATERTON LAKES NATIONAL PARK

Drawing title/Titre du dessin

BREIDGE GUARDRAIL DETAILS

| | | |
|---|------------------------------|----------------------------|
| Surveyed by/Arpente par ROAD WEST ENGINEERING LTD. | Drawn by/Dessiné par W.R. | Date/Date 30 APRIL 2015 |
|---|------------------------------|----------------------------|

| | | |
|---------------------------------|--------------------------------|---------------|
| Designed by/Concept par J.H. | Reviewed by/Revisé par R.M. | Scale/Echelle |
|---------------------------------|--------------------------------|---------------|

Project Manager/Administrateur de Projets
K.E.E.

| | |
|---|-----------------------------------|
| Client Acceptance/Acceptation du client | Approved by/Approuvé par A.C.N |
|---|-----------------------------------|

| | | |
|---|-----------------------|-----------------------------|
| Project No./No. du projet WNP13-04-024 | Asset No./No. du bien | Sheet No./No. de la feuille |
|---|-----------------------|-----------------------------|

| | |
|--|-----|
| Drawing Reference No./No. de référence du dessin | 208 |
|--|-----|