EMERY BRIDGE REPLACEMENT

Township of Georgian Bluffs

GEI PROJECT No. 2401469 TENDER No. RFT 2025-01

Township:



Township of Georgian Bluffs 177964 Grey Road 18, R.R. #3 Owen Sound, Ontario N4K 5N5

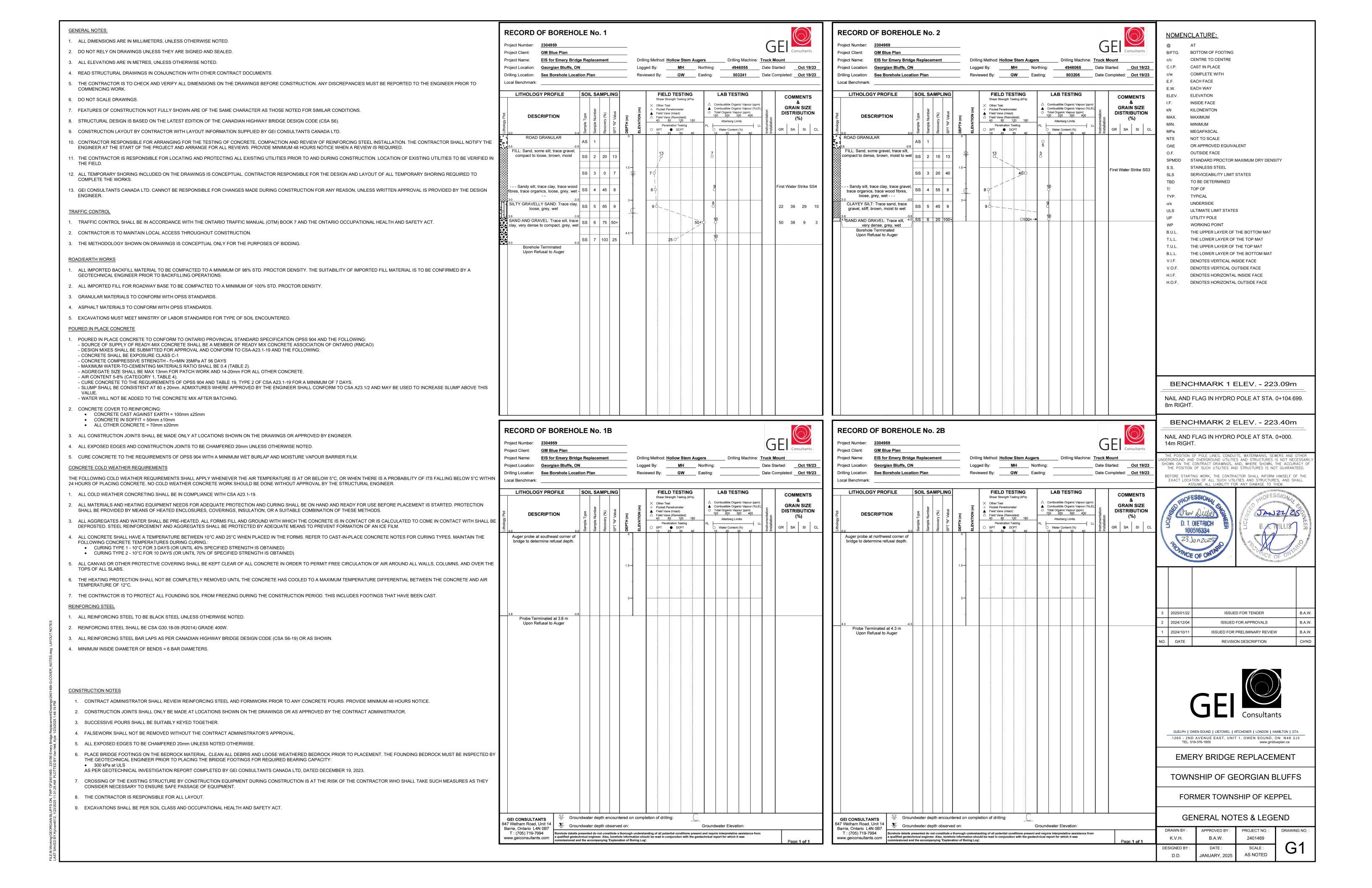
Consulting Engineers:

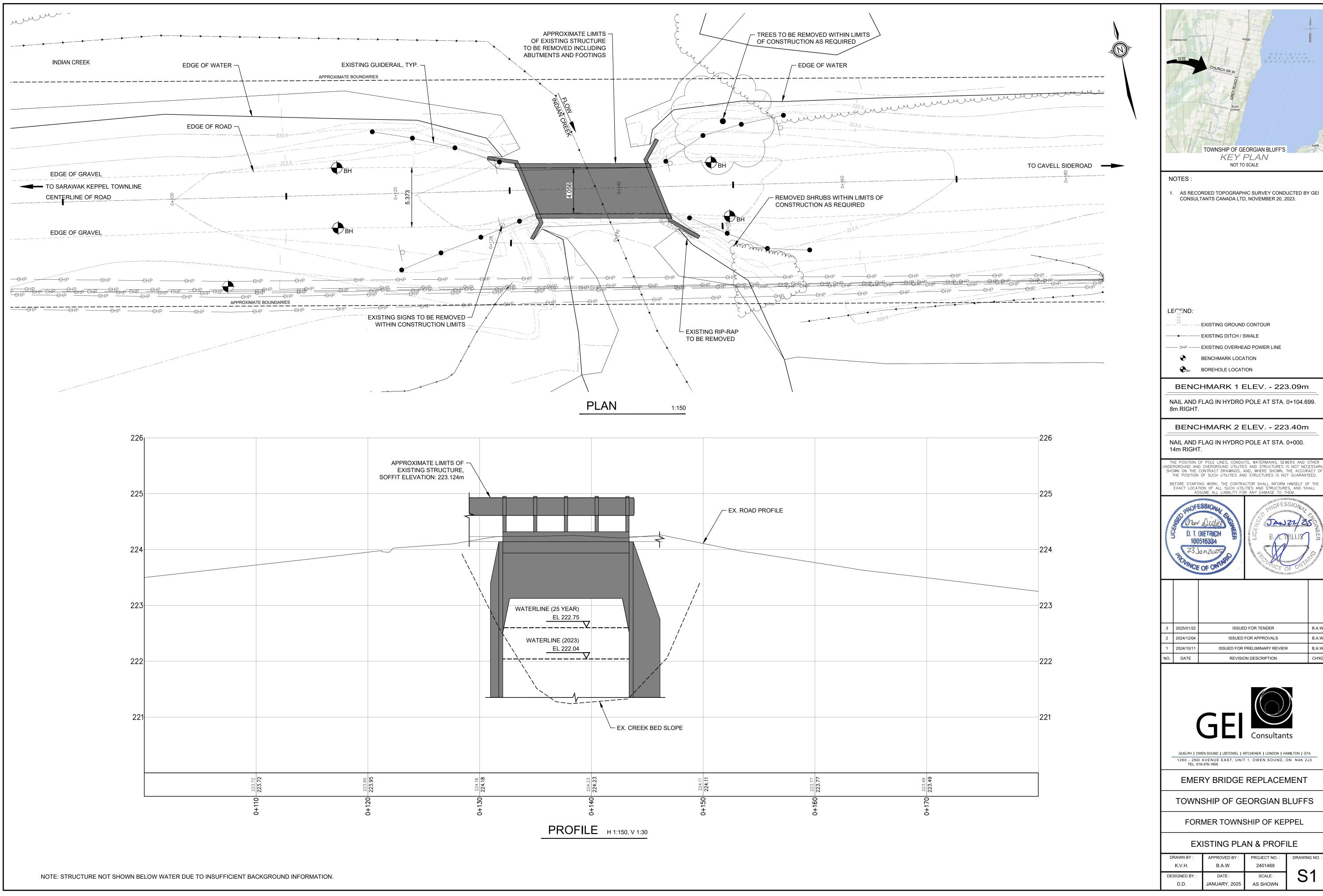


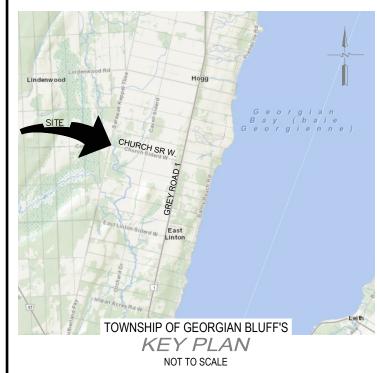
GEI Consultants Canada Limited 1260 - 2nd Avenue East Owen Sound, Ontario N4K 2J3



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AS RECORDED TOPOGRAPHIC SURVEY CONDUCTED BY GEI

NAIL AND FLAG IN HYDRO POLE AT STA. 0+104.699.

BENCHMARK 2 ELEV. - 223.40m

SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.



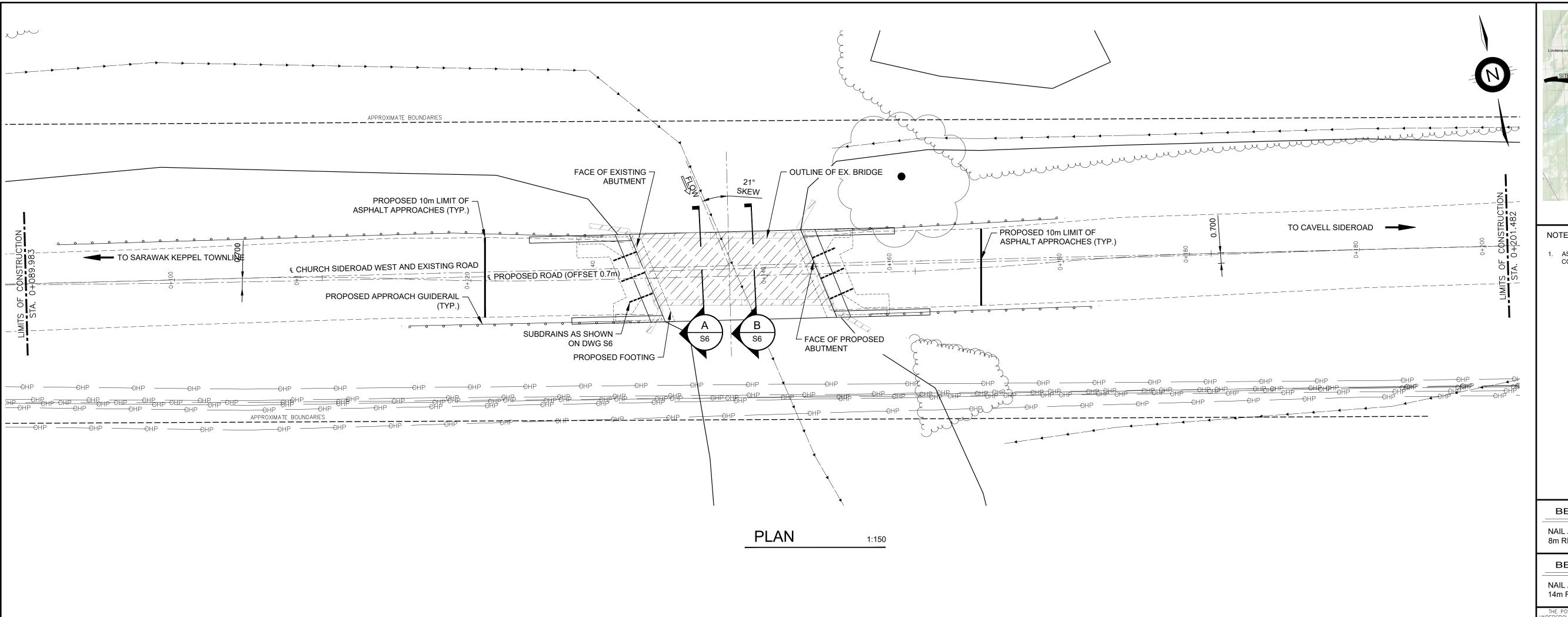
| 3 | 2025/01/22 | ISSUED FOR TENDER | B.A.W. |
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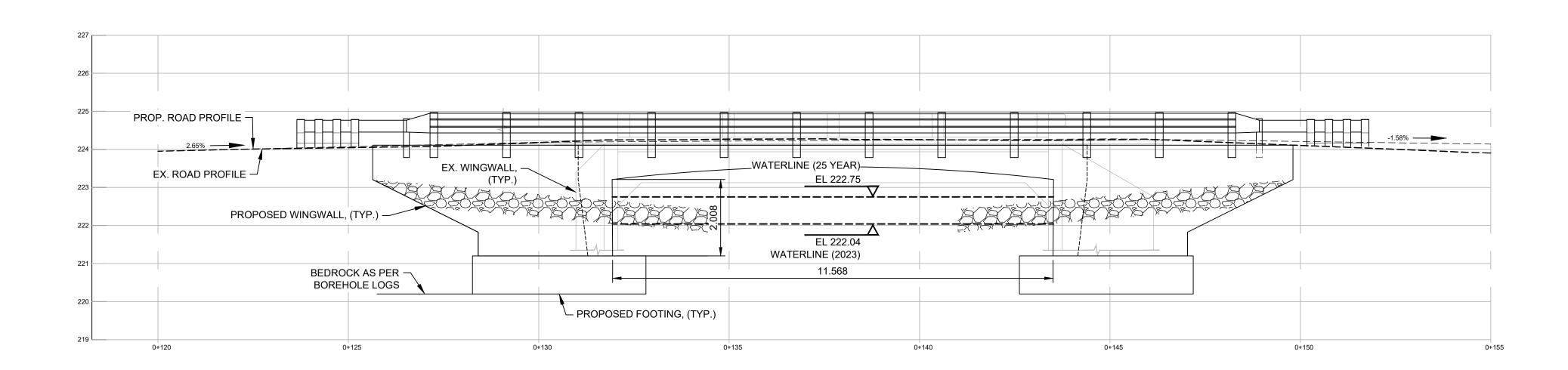


EMERY BRIDGE REPLACEMENT

TOWNSHIP OF GEORGIAN BLUFFS

| DRAWN BY : | APPROVED BY : | PROJECT NO.: | DRAWING NO |
|---------------|---------------|--------------|------------|
| K.V.H. | B.A.W. | 2401469 | |
| DESIGNED BY : | DATE : | SCALE: | S1 |
| D.D. | JANUARY, 2025 | AS SHOWN | . |





ELEVATION H: 1:50 V: 1:50

TOWNSHIP OF GEORGIAN BLUFF'S KEY PLAN NOT TO SCALE

AS RECORDED TOPOGRAPHIC SURVEY CONDUCTED BY GEI CONSULTANTS CANADA LTD, NOVEMBER 20, 2023.

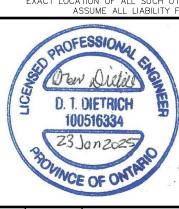
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NAIL AND FLAG IN HYDRO POLE AT STA. 0+104.699. 8m RIGHT.

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GUELPH | OWEN SOUND | LISTOWEL | KITCHENER | LONDON | HAMILTON | GTA 1260 - 2ND AVENUE EAST, UNIT 1, OWEN SOUND, ON N4K 2J3 TEL. 519-376-1805

EMERY BRIDGE REPLACEMENT

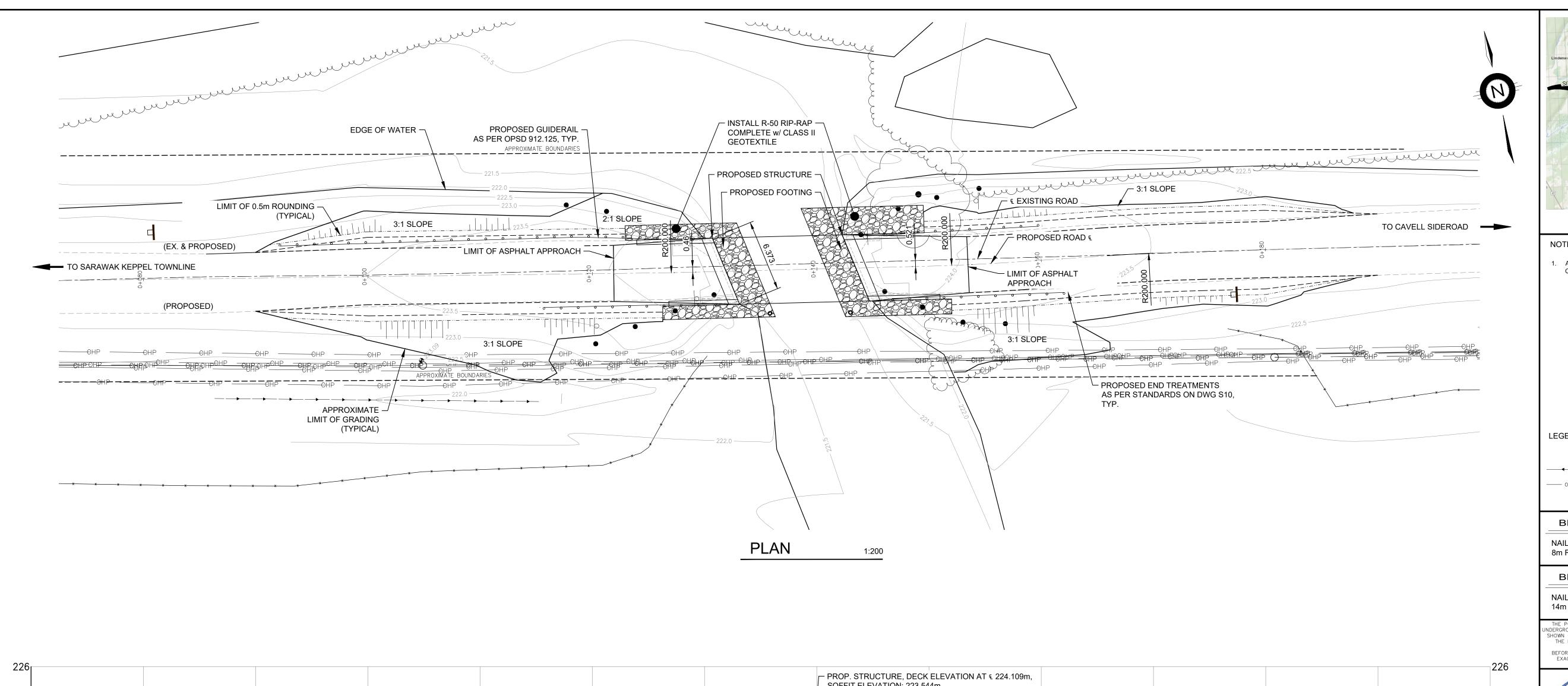
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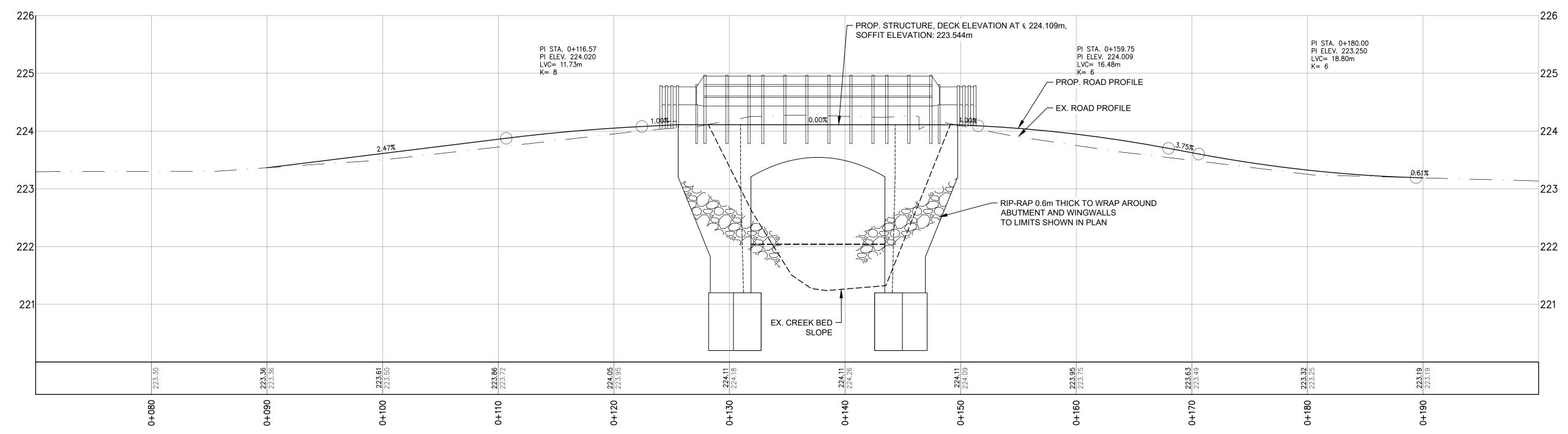
FORMER TOWNSHIP OF KEPPEL

GENERAL ARRANGEMENT

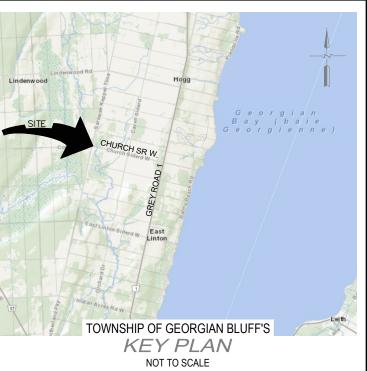
PROJECT NO.: K.V.H. B.A.W. 2401469 SCALE: **DESIGNED BY** AS SHOWN JANUARY, 2025

- EXISTING BRIDGE IS GREYED OUT FOR CLARITY. - EXISTING FOOTINGS NOT SHOWN DUE TO INSUFFICIENT BACKGROUND INFORMATION.





PROFILE H 1:200, V 1:40



NOTES:

AS RECORDED TOPOGRAPHIC SURVEY CONDUCTED BY GEI CONSULTANTS CANADA LTD, NOVEMBER 20, 2023.

LEGEND:

EXISTING GROUND CONTOUR

EXISTING DITCH / SWALE

—— OHP —— EXISTING OVERHEAD POWER LINE

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EMERY BRIDGE REPLACEMENT

TOWNSHIP OF GEORGIAN BLUFFS

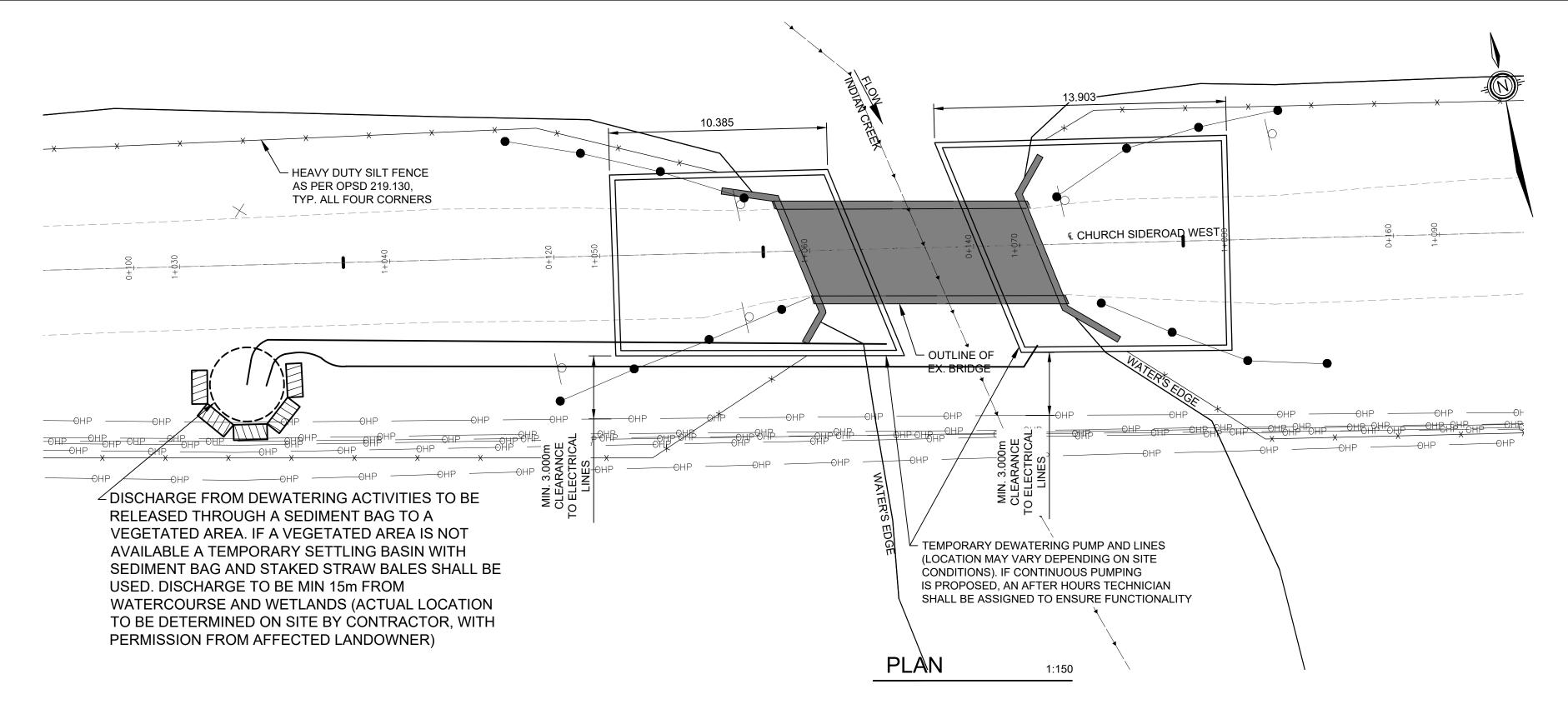
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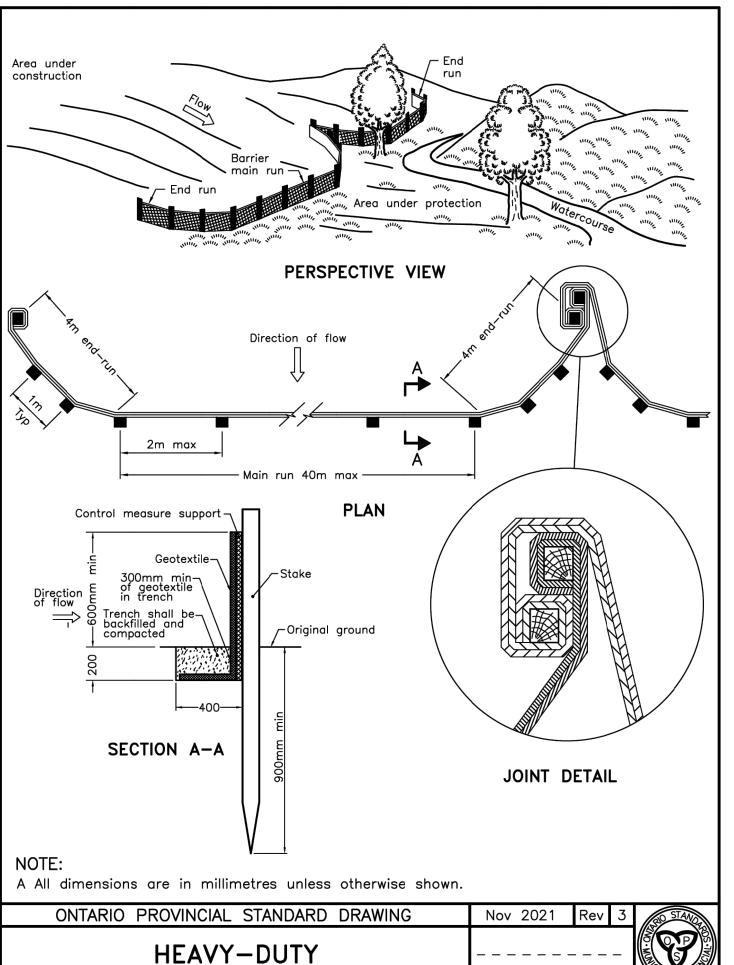
PROPOSED PLAN & PROFILE

K.V.H. 2401469 SCALE: **DESIGNED BY** D.D. AS SHOWN JANUARY, 2025

ENVIRONMENTAL REQUIREMENTS:

- 1. ANY DEWATERING OPERATIONS REQUIRED TO COMPLETE THE WORK IN THE DRY ARE NOT TO EXCEED 50,000 LITRES PER DAY WITHOUT A MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MECP) PERMIT TO TAKE WATER OR COMPLETION OF AN ENVIRONMENTAL ACTIVITY AND SECTOR REGISTRY (AS APPLICABLE).
- 2. ESTIMATED 2 YEAR FLOW = 11.48m3/s. 3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF TEMPORARY WORKSITE ISOLATION, DIVERSION AND DEWATERING SYSTEMS. THE CONTRACTOR SHALL SUBMIT PLANS FOR THESE SYSTEMS TO BE REVIEWED BY THE DESIGN ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. DIVERSION AND WORK SITE ISOLATION DETAILS IN THE DRAWING SET ARE CONCEPTUAL ONLY. THE CAPACITY OF THE DIVERSION SYSTEM SHOWN SHALL BE TAKEN AS A MINIMUM REQUIREMENT. ALTERNATIVE DIVERSION PIPING AND CONFIGURATIONS MAY BE SUBMITTED BY THE
- CONTRACTOR FOR REVIEW PRIOR TO MOBILIZATION. 4. ALL MATERIAL AND EQUIPMENT USED FOR THE PURPOSE OF OR GENERATED DURING COMPLETION OF THE WORKS SHALL BE OPERATED, STORED AND REMOVED FROM SITE IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE. (EG. PETROLEUM PRODUCTS, SILT, DEBRIS, ETC.) FROM ENTERING THE WATERCOURSE.
- 5. ANY STOCKPILED MATERIALS SHALL BE STORED AND STABILIZED AWAY FROM AND ABOVE THE HIGH WATER MARK. IN WATER WORK IS TO OCCUR BETWEEN JULY 1 AND SEPTEMBER 30 (INCLUSIVE).
- ALL DISTURBED AREAS SHALL BE STABILIZED AND RE-VEGETATED AS REQUIRED UPON COMPLETION OF WORK AND RESTORED TO A PRE-DISTURBED STATE OR BETTER, INCLUDING RE-INSTATEMENT OF THE WATERCOURSE.
- 8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO COMMENCEMENT OF WORK, AND MAINTAINED DURING THE WORK PHASE, TO PREVENT ENTRY OF SEDIMENT INTO THE WATERCOURSE OR THE MOVEMENT OF RE-SUSPENDED SEDIMENT.
- 9. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- 10. NO WORK IS PERMITTED IN THE WATERCOURSE AND NO MATERIAL SHALL BE RELEASED INTO THE WATERCOURSE. WORK IS TO BE COMPLETED IN THE DRY.
- 11. NO MACHINERY SHALL CROSS THE WATERCOURSE AT ANY TIME. MACHINERY THAT IS REQUIRED ON THE OPPOSITE SIDE OF THE WATERCOURSE WHILE THE STRUCTURE IS BEING REPLACED SHALL BE DRIVEN ACROSS THE STRUCTURE ITSELF, HAULED BY FLOAT, OR DRIVEN AROUND ON ROADS.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY TEMPORARY PROTECTION MEASURES NECESSARY TO PREVENT ANY CONCRETE, RUBBLE, DEMOLITION DEBRIS, OR DUST FROM ENTERING THE WATERCOURSE. SUCH MATERIAL SHALL BE REMOVED FROM TEMPORARY PROTECTION MEASURES REGULARLY AND AT THE END OF EACH
- 13. THE SEDIMENT AND EROSION CONTROL MEASURES MAY BE SUBJECT TO CHANGE OR MODIFICATIONS AS A RESULT OF SITE DEVELOPMENT OR CHANGES ON-SITE.
- 14. ADDITIONAL SILT FENCE AND CLEAR STONE SHALL BE KEPT ON-SITE FOR REPAIRS TO PROPOSED SEDIMENT AND EROSION CONTROL FEATURES.
- 15. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE EVALUATED ON A WEEKLY BASIS AND AFTER ANY STORM EVENT. ANY REPAIRS REQUIRED ARE TO BE RECTIFIED IMMEDIATELY.
- 16. SEDIMENT LADEN WATERS ARE TO BE TREATED PRIOR TO DISCHARGING INTO THE WATERCOURSE, AND MUST BE DISCHARGED AT LEAST 15m FROM THE WATERCOURSE.
- 17. MACHINERY, VEHICLES, EQUIPMENT, AND PUMPS SHALL NOT BE REFUELED OR CLEANED WITHIN 30 METERS OF THE 18. ALL MACHINERY SHALL BE MAINTAINED FREE OF FLUID LEAKS AND SHALL ARRIVE ON-SITE IN A CLEAN AND WASHED
- CONDITION. 19. AN EMERGENCY SPILL KIT SHALL BE KEPT ON SITE AT ALL TIMES. THE CONTRACTOR SHALL COMPLY WITH ALL MECP REQUIREMENTS AND SHALL REPORT SPILLS TO THE SPILLS ACTION CENTRE (1-800-268-6060).
- 20. MEASURES SHALL BE TAKEN TO PREVENT CONCRETE LEACHATE FROM ENTERING THE WATERCOURSE. ALL CEMENTITIOUS PRODUCTS INCLUDING CONCRETE, GROUT, AND MORTAR SHALL BE COMPLETELY ISOLATED FROM PRECIPITATION AND WATERCOURSE FLOW FOR A MINIMUM OF 48 HOURS (OR UNTIL SIGNIFICANTLY CURED) TO ALLOW THE PH TO REACH NEUTRAL LEVELS. CONTAINMENT FACILITIES SHALL BE PROVIDED AT THE SITE FOR WASH DOWN OF CONCRETE TRUCKS, PUMPS, EQUIPMENT, AND TOOLS AS REQUIRED.
- 21. SMALL MESH SEINE TO BE USED TO EXCLUDE FISH FROM THE PROJECT AREA. ALL FISH STRANDED WITHIN THE PROJECT AREA DURING CONSTRUCTION SHALL BE RELOCATED BY A QUALIFIED BIOLOGIST.
- 22. THE CONTRACTOR SHALL MONITOR THE WEEKLY WEATHER FORECAST ON A DAILY BASIS AND PREPARE THE SITE ADEQUATELY FOR CONDITIONS THAT MAY CAUSE WATER LEVELS TO RISE.
- 23. THE CONTRACTOR SHALL BE AWARE THAT THE WATER LEVEL SPECIFIED ON THE CONTRACT DRAWINGS HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND BY NO MEANS INDICATES THE WATER LEVEL AT THE TIME OF CONSTRUCTION OR THE HIGH WATER LEVEL FOR THE WATER COURSE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT AND MATERIALS REQUIRED TO COMPLETE THE PROJECT REGARDLESS OF THE WATER LEVEL AT THE TIME OF CONSTRUCTION.



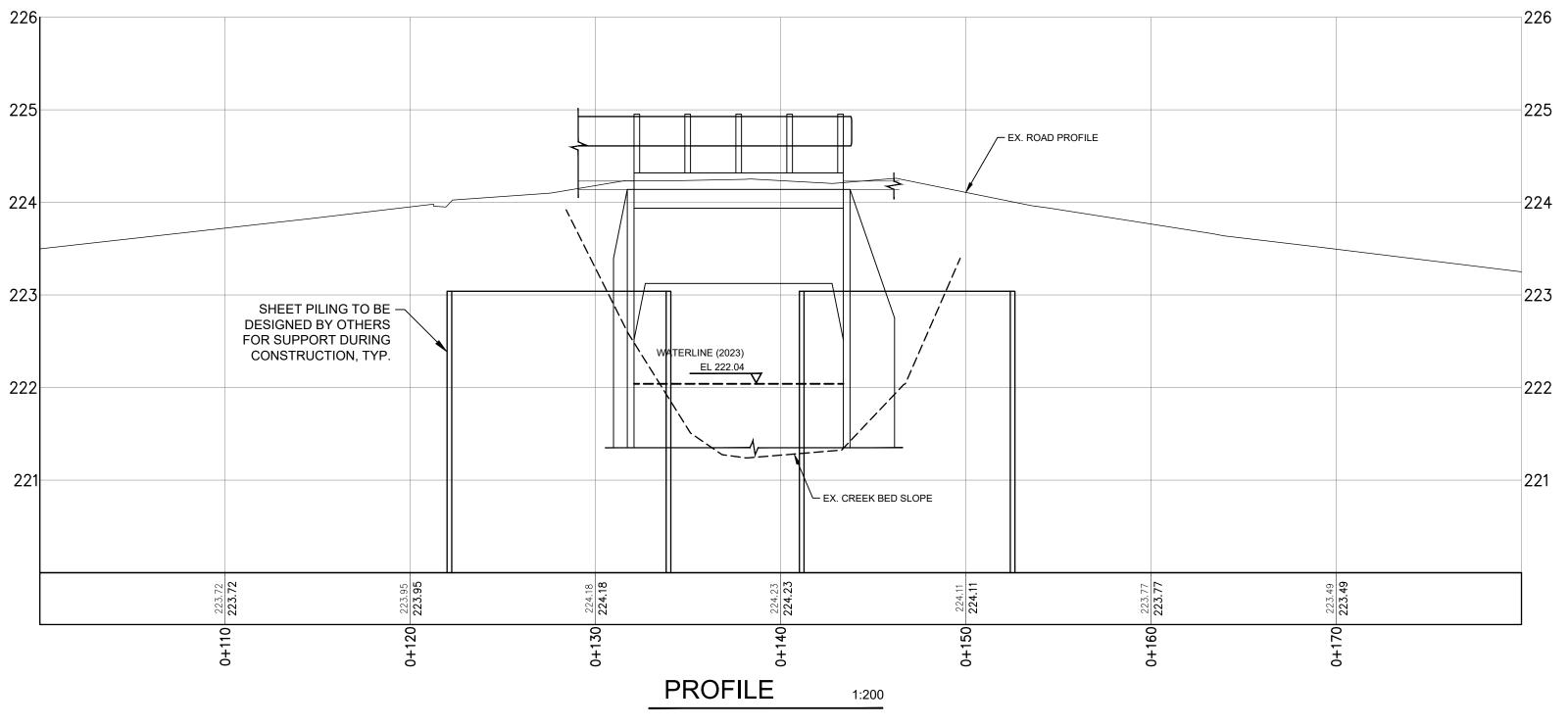


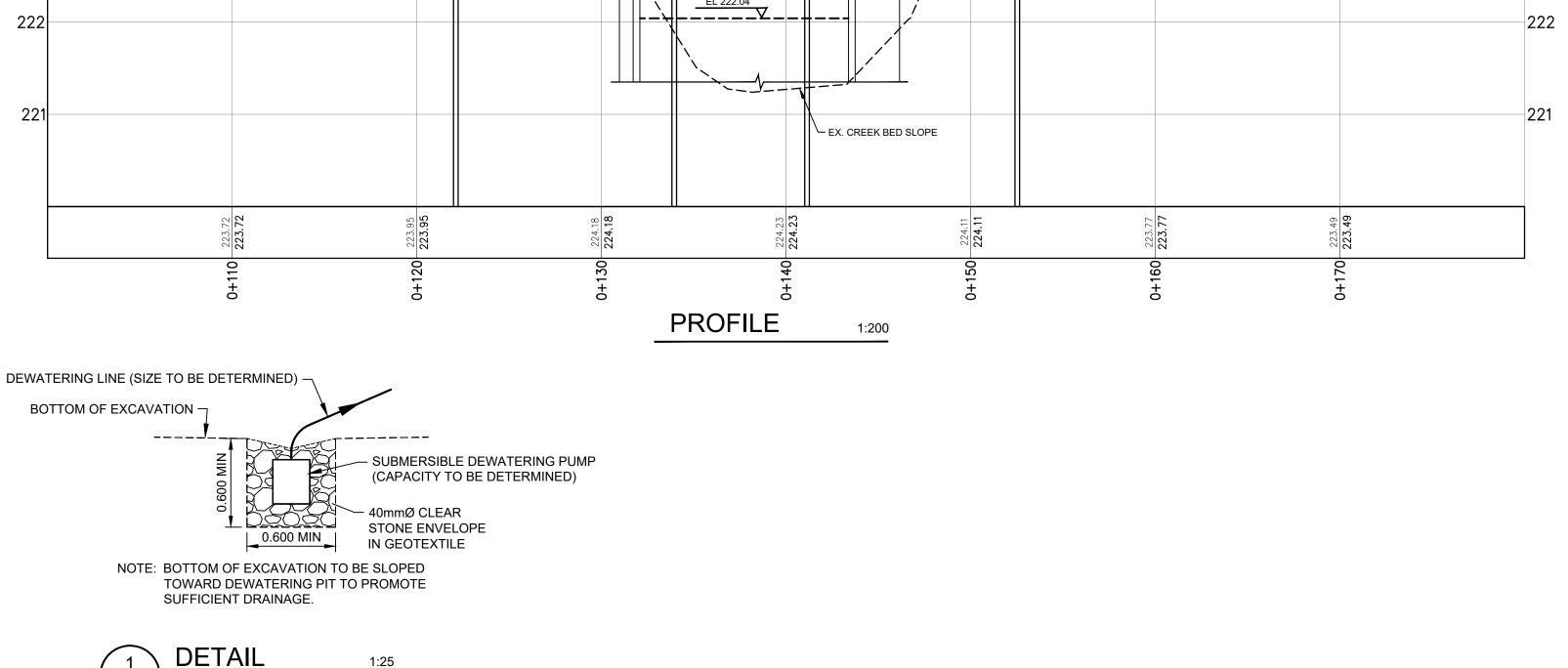
OPSD 219.130

TYPICAL DEWATERING

PIT DETAIL

SILT FENCE BARRIER







AS RECORDED TOPOGRAPHIC SURVEY CONDUCTED BY GEI CONSULTANTS CANADA LTD, NOVEMBER 20, 2023.

LECEND:

14m RIGHT.

— – EXISTING GROUND CONTOUR

— ← EXISTING DITCH / SWALE

—— OHP —— EXISTING OVERHEAD POWER LINE

BENCHMARK 1 ELEV. - 223.09m

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BENCHMARK 2 ELEV. - 223.40m

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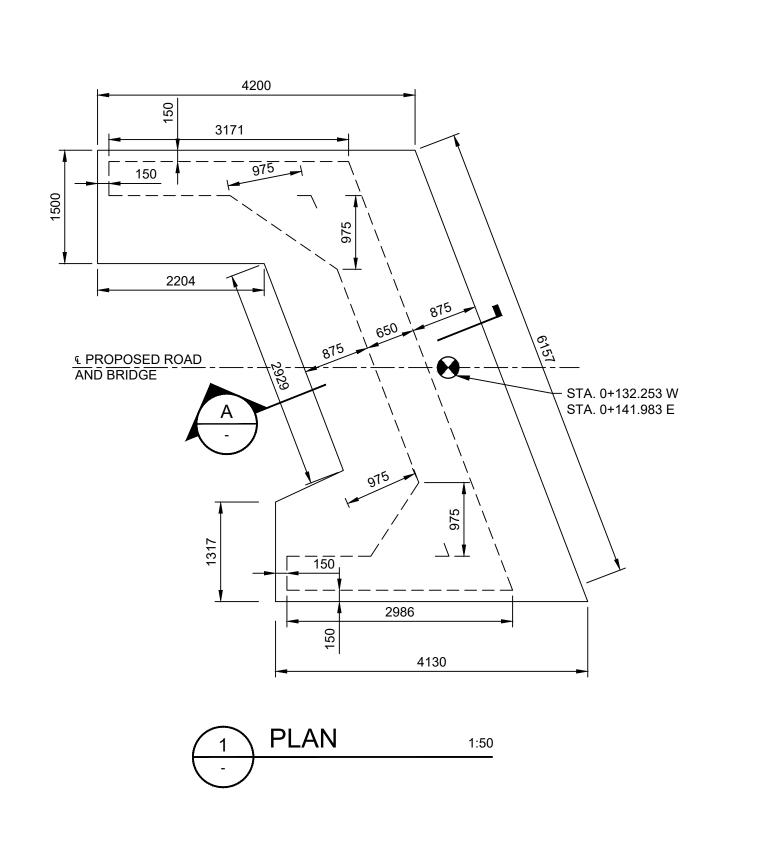
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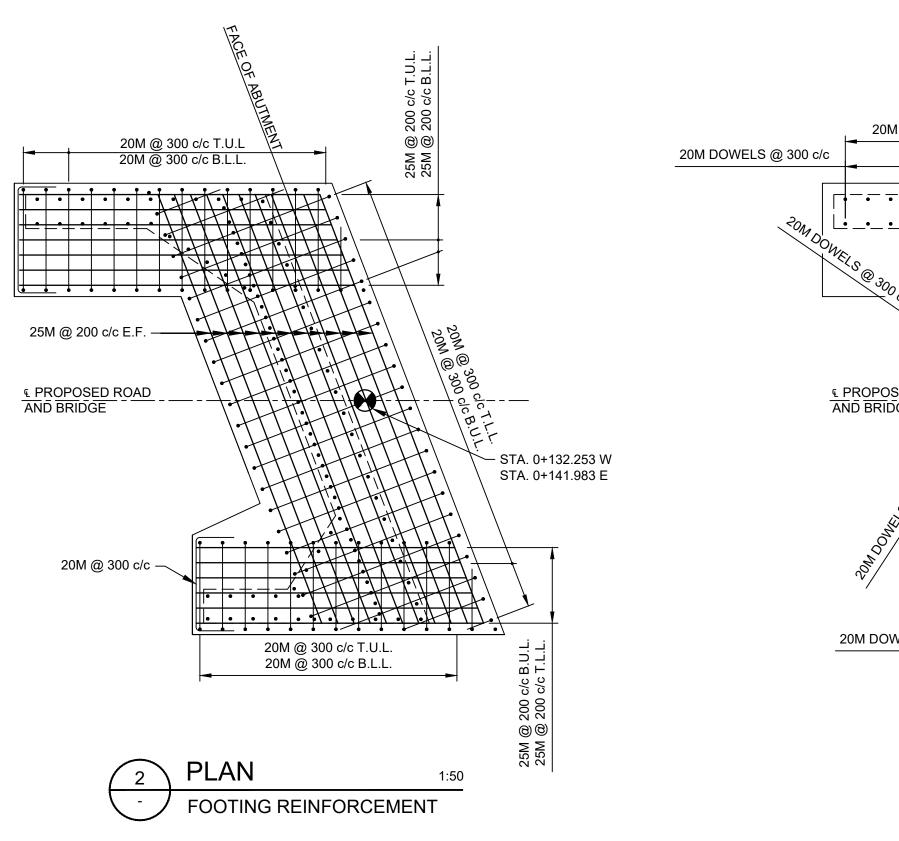
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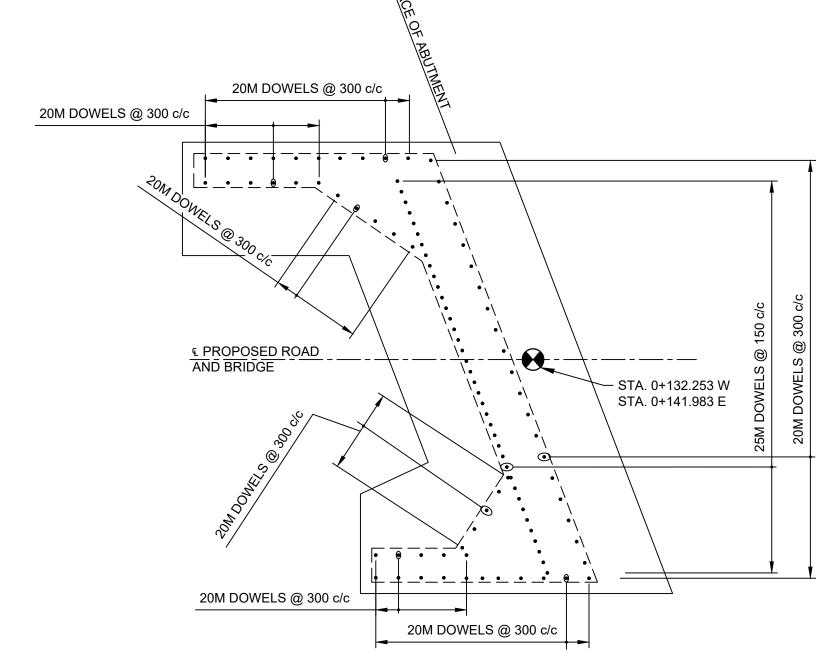
FORMER TOWNSHIP OF KEPPEL

ENVIRONMENTAL PROTECTION PLAN & DEWATERING DETAILS

K.V.H. B.A.W. 2401469 SCALE: **DESIGNED BY** AS SHOWN JANUARY, 202







DOWEL REINFORCEMENT

BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM. D. T. DIETRICH

8m RIGHT.

14m RIGHT.

NOMENCLATURE:

C.I.P.

c/w E.F.

E.W. ELEV.

kN

MAX.

MIN.

MPa

NTS

OAE

ULS

UP

B/FTG. BOTTOM OF FOOTING

CENTRE TO CENTRE

CAST IN PLACE COMPLETE WITH

EACH FACE **EACH WAY**

ELEVATION INSIDE FACE

KILONEWTON

MEGAPASCAL

NOT TO SCALE

OUTSIDE FACE

TOP OF TYPICAL UNDERSIDE

UTILITY POLE

WORKING POINT

STAINLESS STEEL

TO BE DETERMINED

ULTIMATE LIMIT STATES

OR APPROVED EQUIVALENT

SERVICEABILITY LIMIT STATES

STANDARD PROCTOR MAXIMUM DRY DENSITY

THE UPPER LAYER OF THE BOTTOM MAT THE LOWER LAYER OF THE TOP MAT THE UPPER LAYER OF THE TOP MAT THE LOWER LAYER OF THE BOTTOM MAT

DENOTES VERTICAL INSIDE FACE DENOTES VERTICAL OUTSIDE FACE

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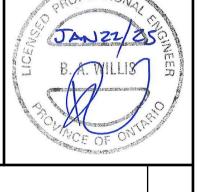
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MAXIMUM

MINIMUM



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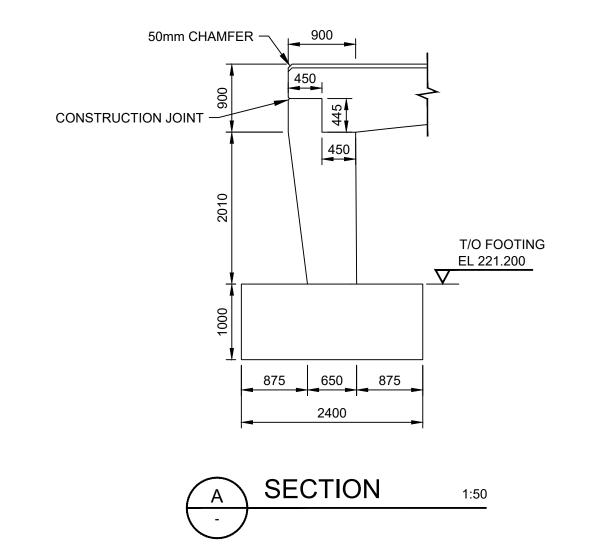
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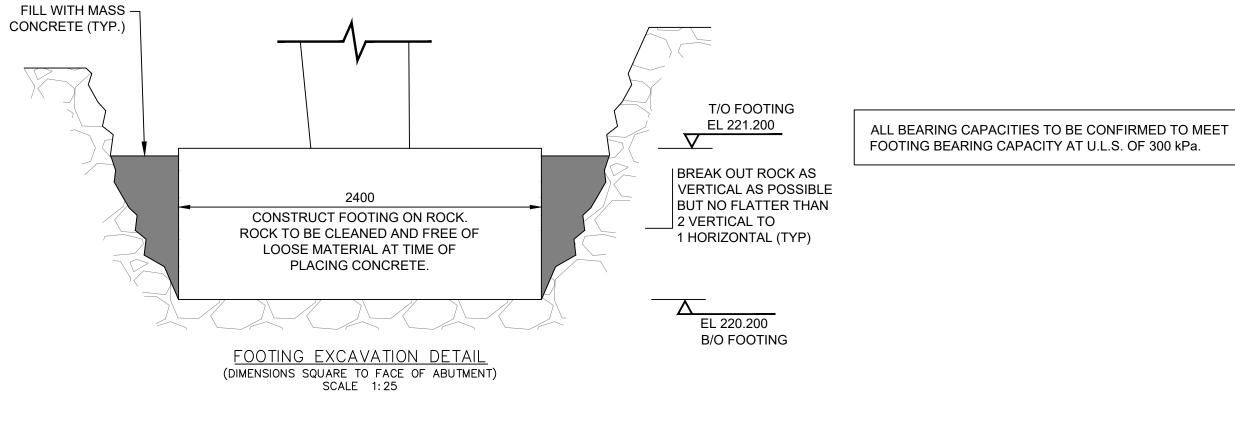
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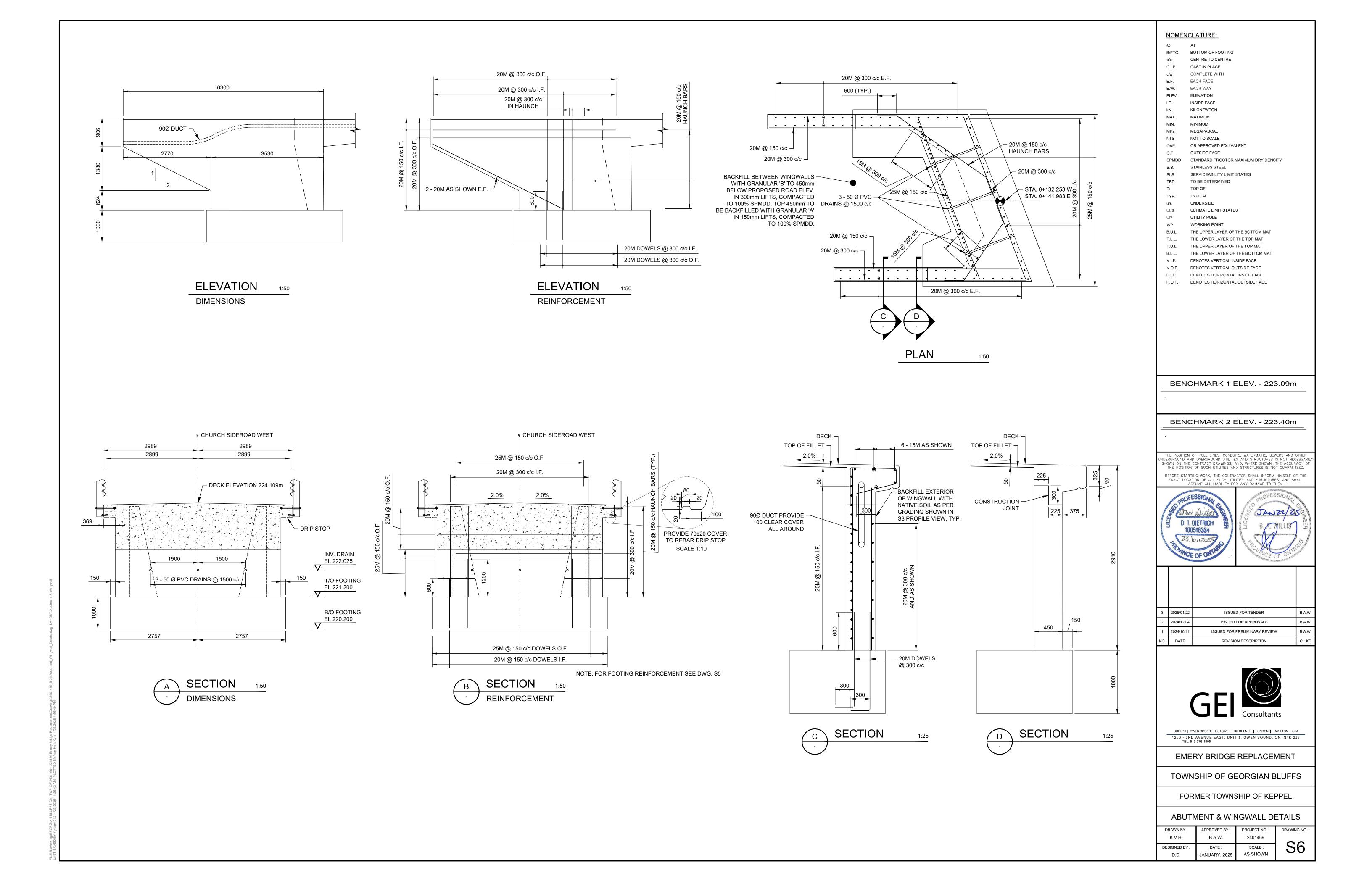
FOOTING DETAILS

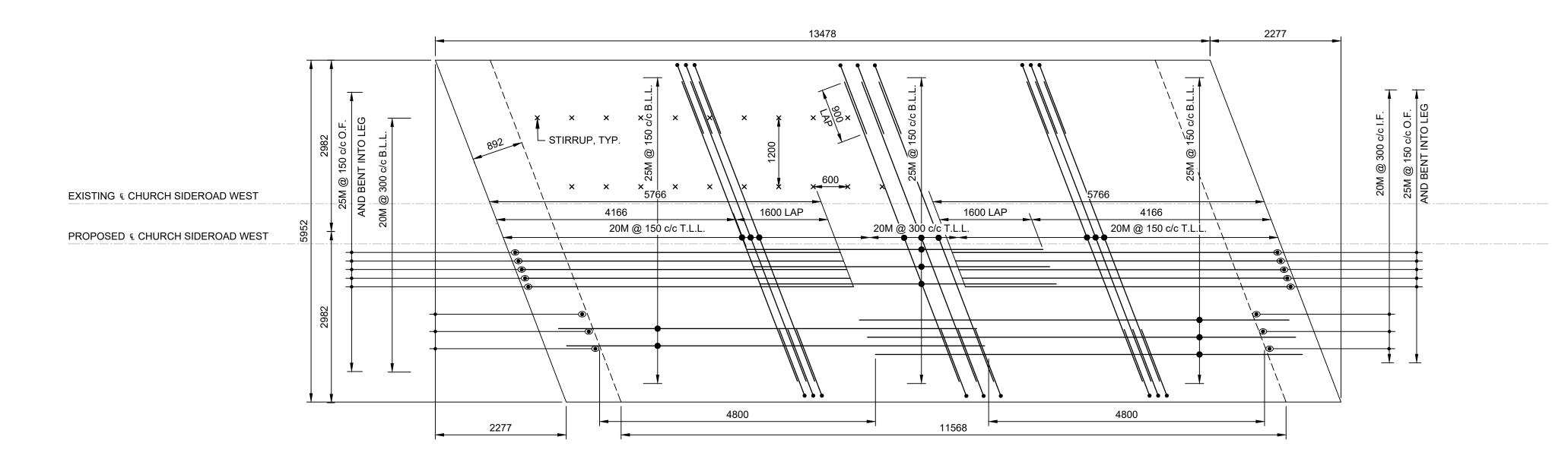
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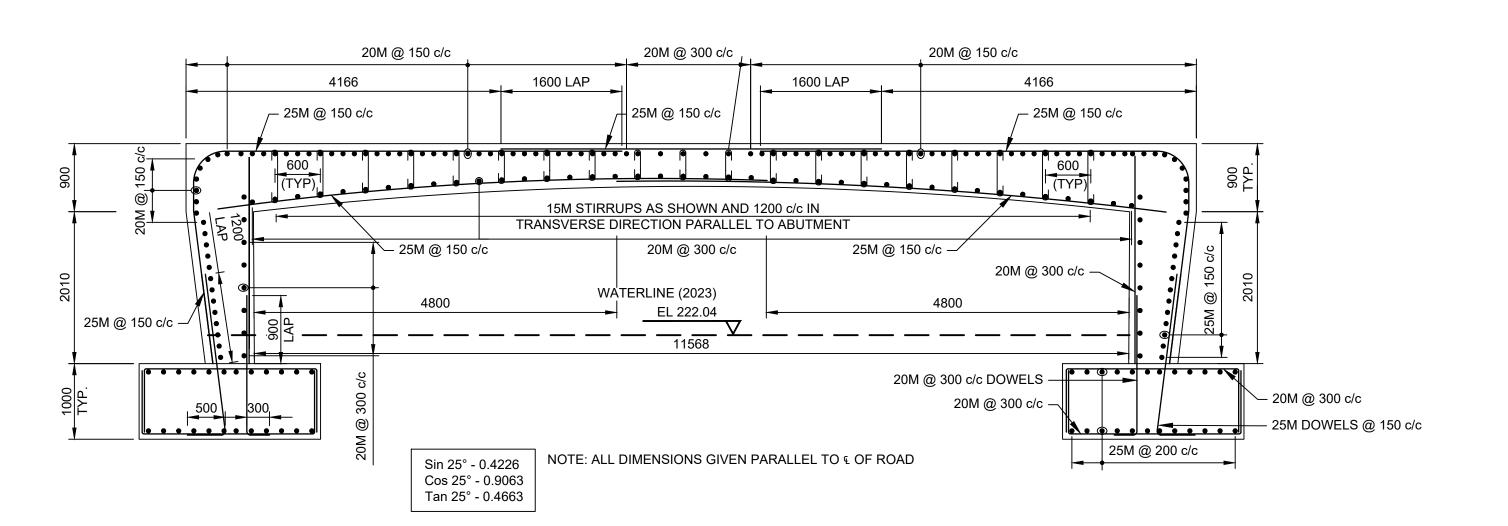


SECTION





PLAN 1:50





NOMENCLATURE:

B/FTG. BOTTOM OF FOOTING CENTRE TO CENTRE CAST IN PLACE

C.I.P. c/w COMPLETE WITH E.F. EACH FACE E.W. EACH WAY

ELEV. ELEVATION INSIDE FACE KILONEWTON MAX.

MIN.

MPa MEGAPASCAL NTS NOT TO SCALE OR APPROVED EQUIVALENT OAE

MAXIMUM

MINIMUM

O.F. OUTSIDE FACE SPMDD STANDARD PROCTOR MAXIMUM DRY DENSITY

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UNDERSIDE

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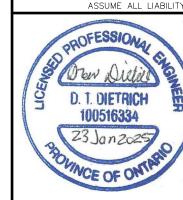
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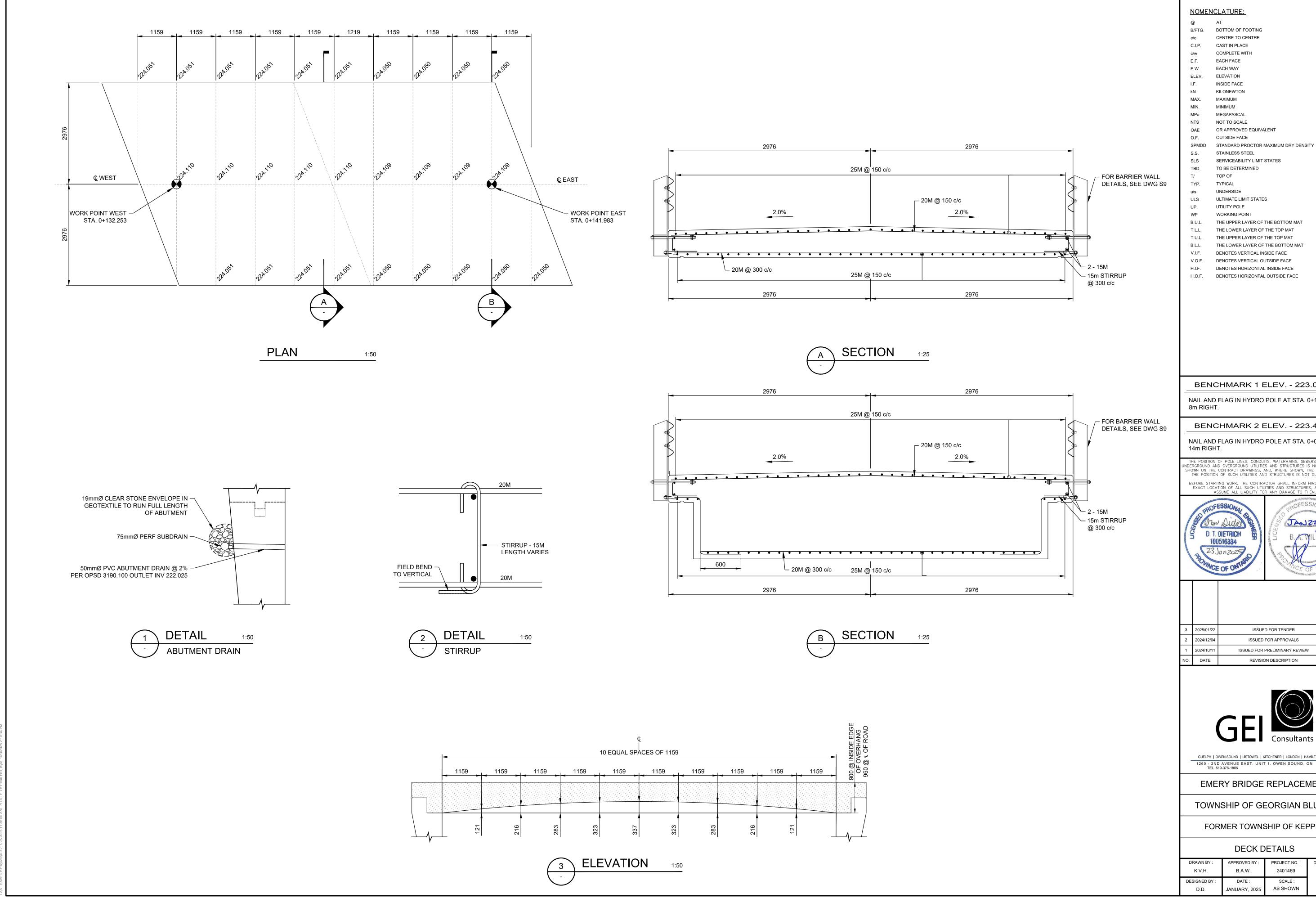
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TOWNSHIP OF GEORGIAN BLUFFS

FORMER TOWNSHIP OF KEPPEL

DECK REPLACEMENT

| APPROVED BY : | PROJECT NO. : | DRAWING |
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D. T. DIETRICH



| 3 | 2025/01/22 | ISSUED FOR TENDER | B.A |
|-----|------------|-------------------------------|-----|
| 2 | 2024/12/04 | ISSUED FOR APPROVALS | B.A |
| 1 | 2024/10/11 | ISSUED FOR PRELIMINARY REVIEW | B.A |
| NO. | DATE | REVISION DESCRIPTION | СН |



GUELPH | OWEN SOUND | LISTOWEL | KITCHENER | LONDON | HAMILTON | GTA 1260 - 2ND AVENUE EAST, UNIT 1, OWEN SOUND, ON N4K 2J3 TEL. 519-376-1805

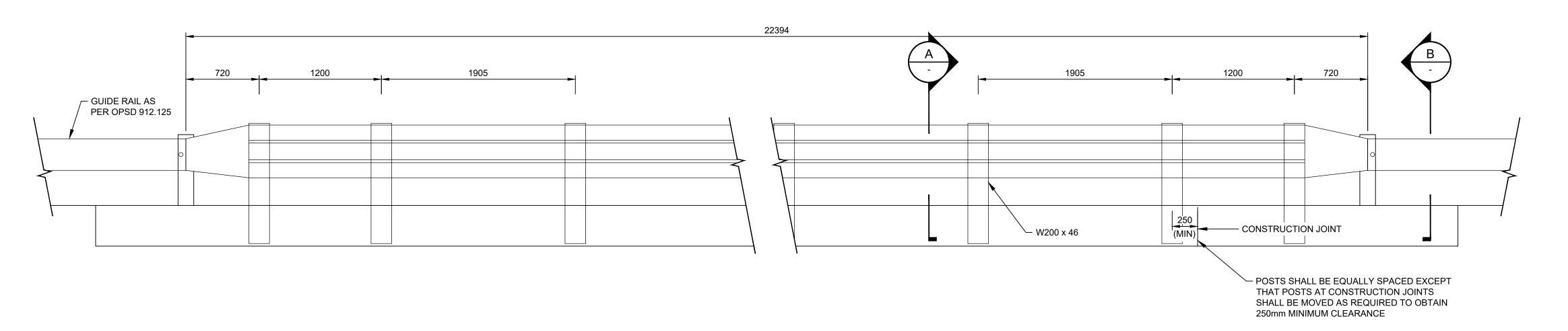
EMERY BRIDGE REPLACEMENT

TOWNSHIP OF GEORGIAN BLUFFS

FORMER TOWNSHIP OF KEPPEL

| DECK | DF. | ΓΑΙΙ | S |
|------|-----|------|---|

| DRAWN BY : | APPROVED BY : | PROJECT NO.: | DRAWING I |
|---------------|---------------|--------------|-----------|
| K.V.H. | B.A.W. | 2401469 | |
| DESIGNED BY : | DATE : | SCALE: | SE |
| D.D. | JANUARY, 2025 | AS SHOWN | |



ELEVATION 1:25



NOMENCLATURE:

B/FTG. BOTTOM OF FOOTING CENTRE TO CENTRE CAST IN PLACE

C.I.P. c/w COMPLETE WITH E.F. EACH FACE E.W. EACH WAY

ELEV. ELEVATION INSIDE FACE kN KILONEWTON

MAX.

MIN.

MPa MEGAPASCAL NTS NOT TO SCALE

OAE OR APPROVED EQUIVALENT O.F. OUTSIDE FACE

MAXIMUM

MINIMUM

SPMDD STANDARD PROCTOR MAXIMUM DRY DENSITY

S.S. STAINLESS STEEL

SLS SERVICEABILITY LIMIT STATES TO BE DETERMINED

TOP OF TYP. TYPICAL

UNDERSIDE

ULS ULTIMATE LIMIT STATES UP UTILITY POLE

WORKING POINT

B.U.L. THE UPPER LAYER OF THE BOTTOM MAT T.L.L. THE LOWER LAYER OF THE TOP MAT

T.U.L. THE UPPER LAYER OF THE TOP MAT

THE LOWER LAYER OF THE BOTTOM MAT

DENOTES VERTICAL INSIDE FACE

V.O.F. DENOTES VERTICAL OUTSIDE FACE

DENOTES HORIZONTAL INSIDE FACE

H.O.F. DENOTES HORIZONTAL OUTSIDE FACE

BENCHMARK 1 ELEV. - 223.09m

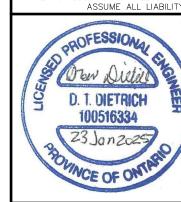
NAIL AND FLAG IN HYDRO POLE AT STA. 0+104.699. 8m RIGHT.

BENCHMARK 2 ELEV. - 223.40m

NAIL AND FLAG IN HYDRO POLE AT STA. 0+000. 14m RIGHT.

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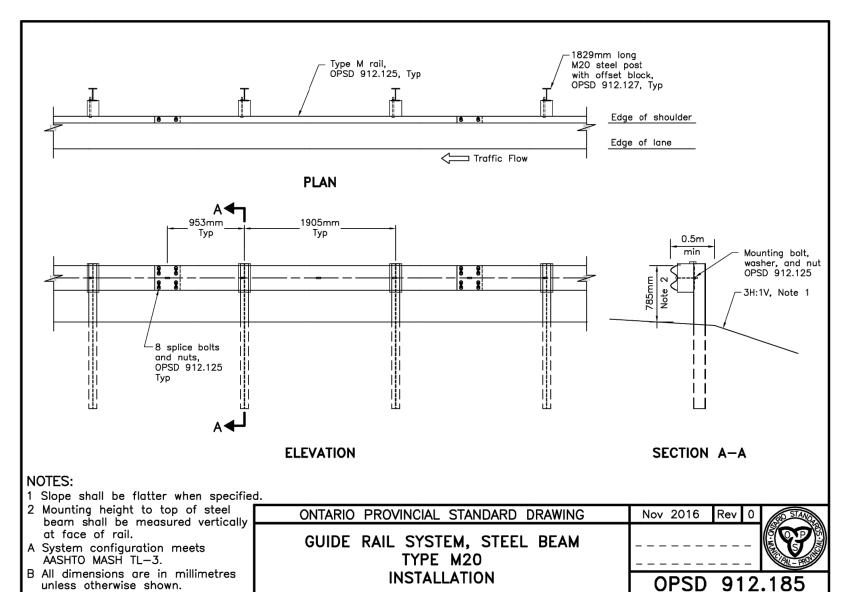
EMERY BRIDGE REPLACEMENT

TOWNSHIP OF GEORGIAN BLUFFS

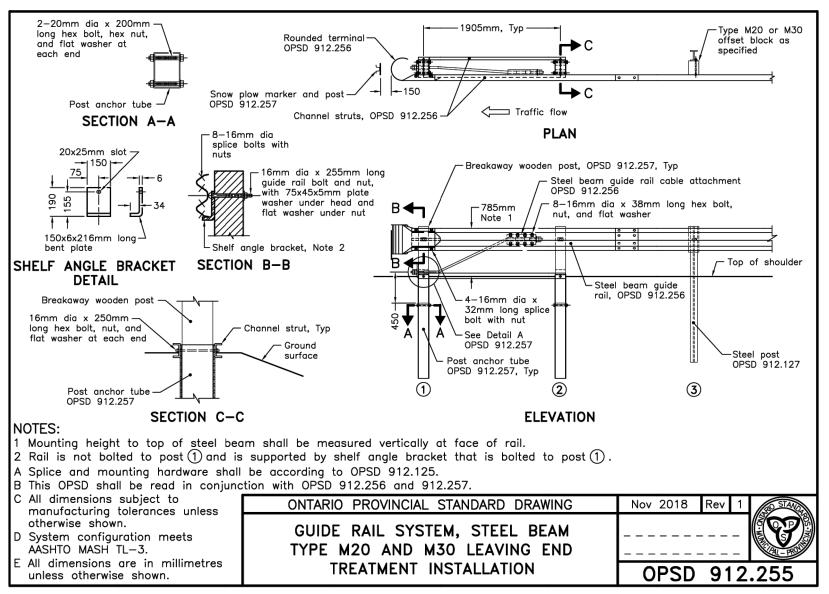
FORMER TOWNSHIP OF KEPPEL

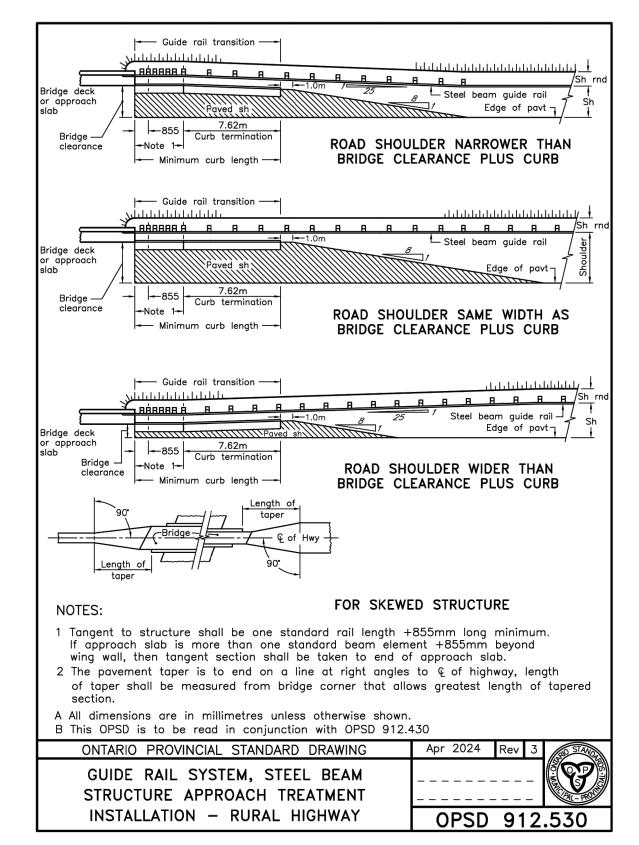
POST & BARRIER DETAILS

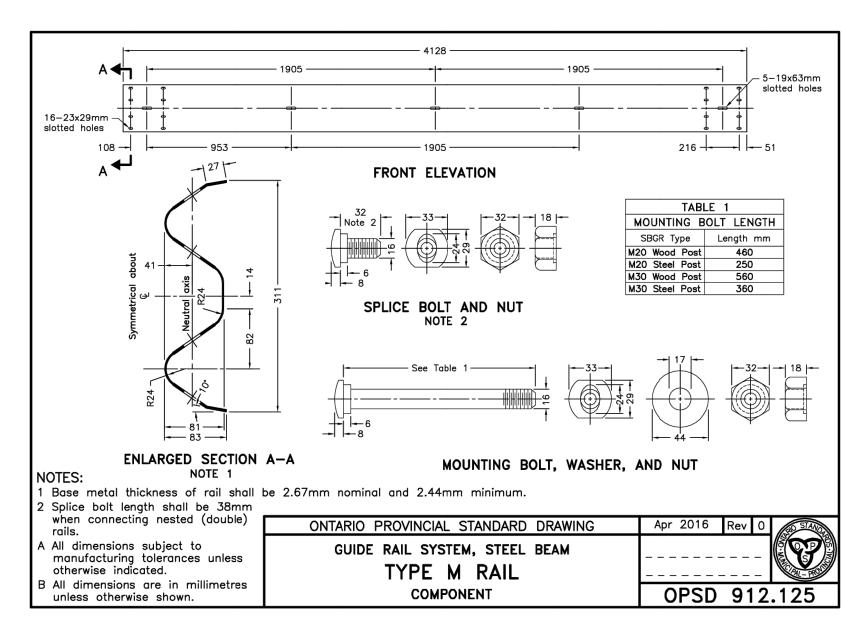
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| | DRAWN BY : | APPROVED BY : | PROJECT NO.: | DRAWING NO. : |
| | K.V.H. | B.A.W. | 2401469 | |
| 1 | DESIGNED BY : | DATE : | SCALE: | S9 |
| | D.D. | JANUARY, 2025 | AS SHOWN | |
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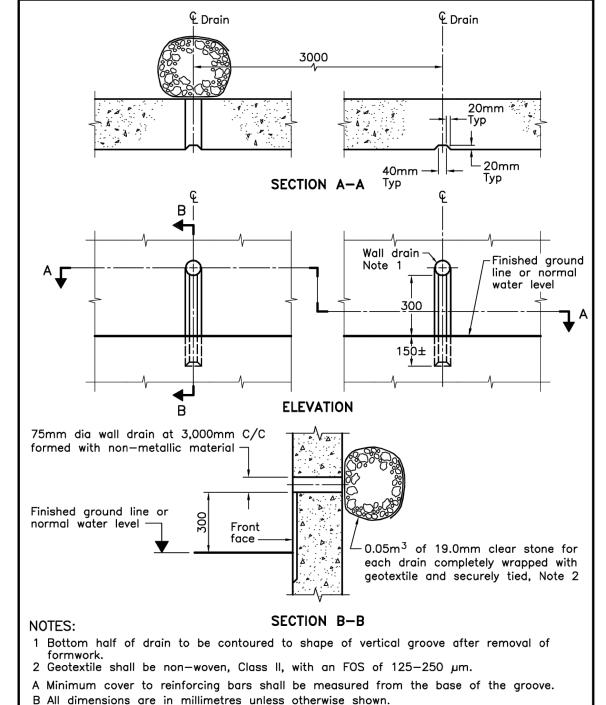


unless otherwise shown.









ONTARIO PROVINCIAL STANDARD DRAWING

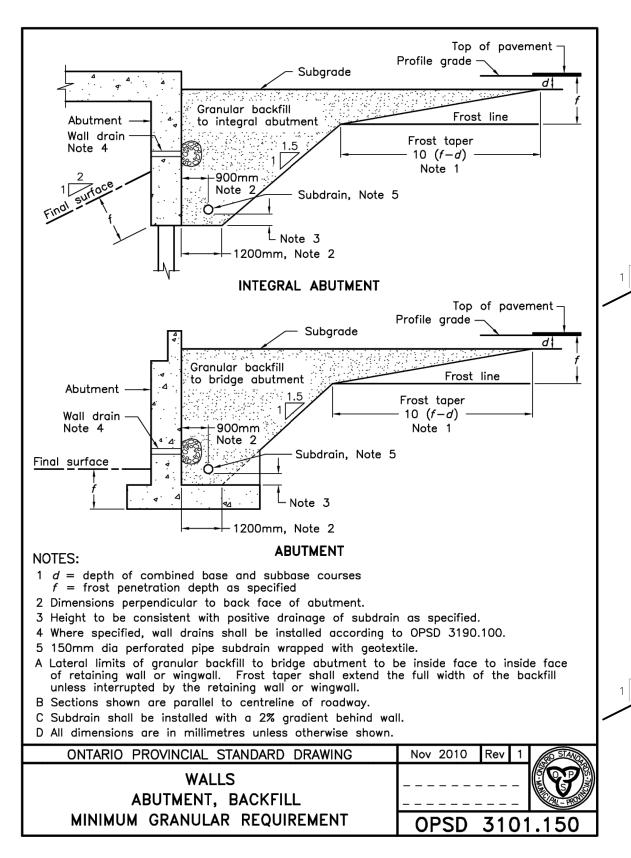
WALLS

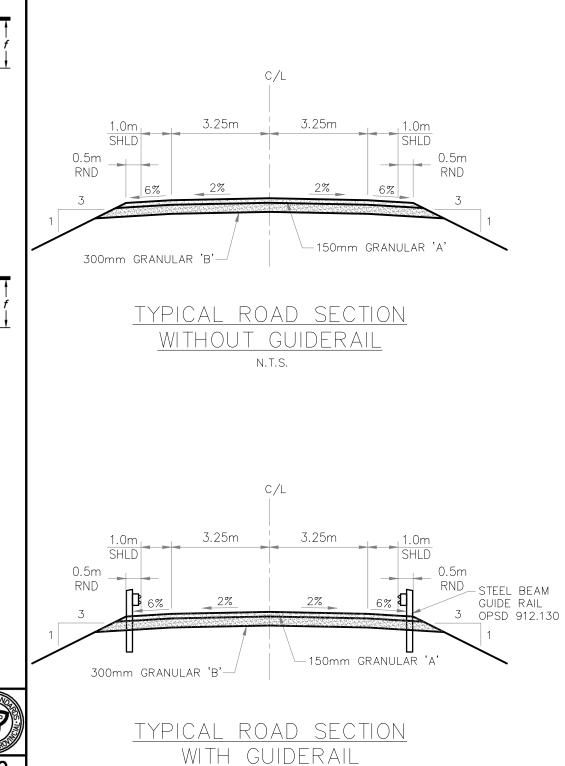
RETAINING AND ABUTMENT

WALL DRAIN

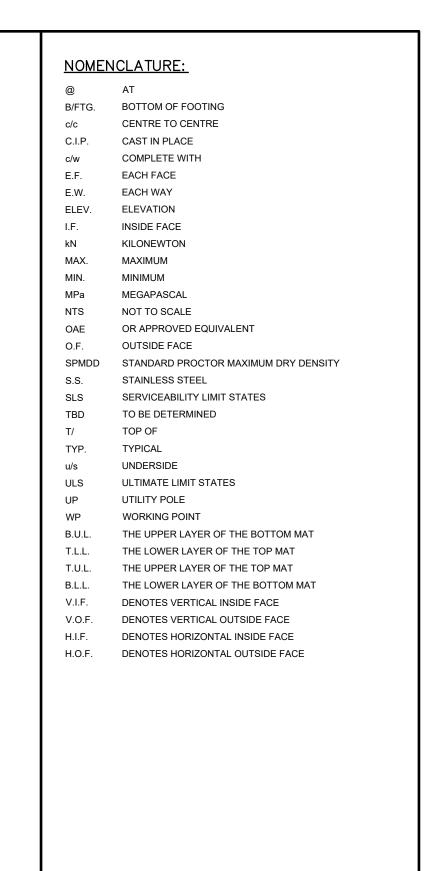
Apr 2011 Rev 2

OPSD 3190.100





N.T.S.



BENCHMARK 1 ELEV. - 223.09m

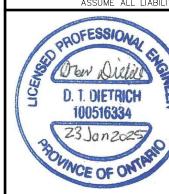
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BENCHMARK 2 ELEV. - 223.40m

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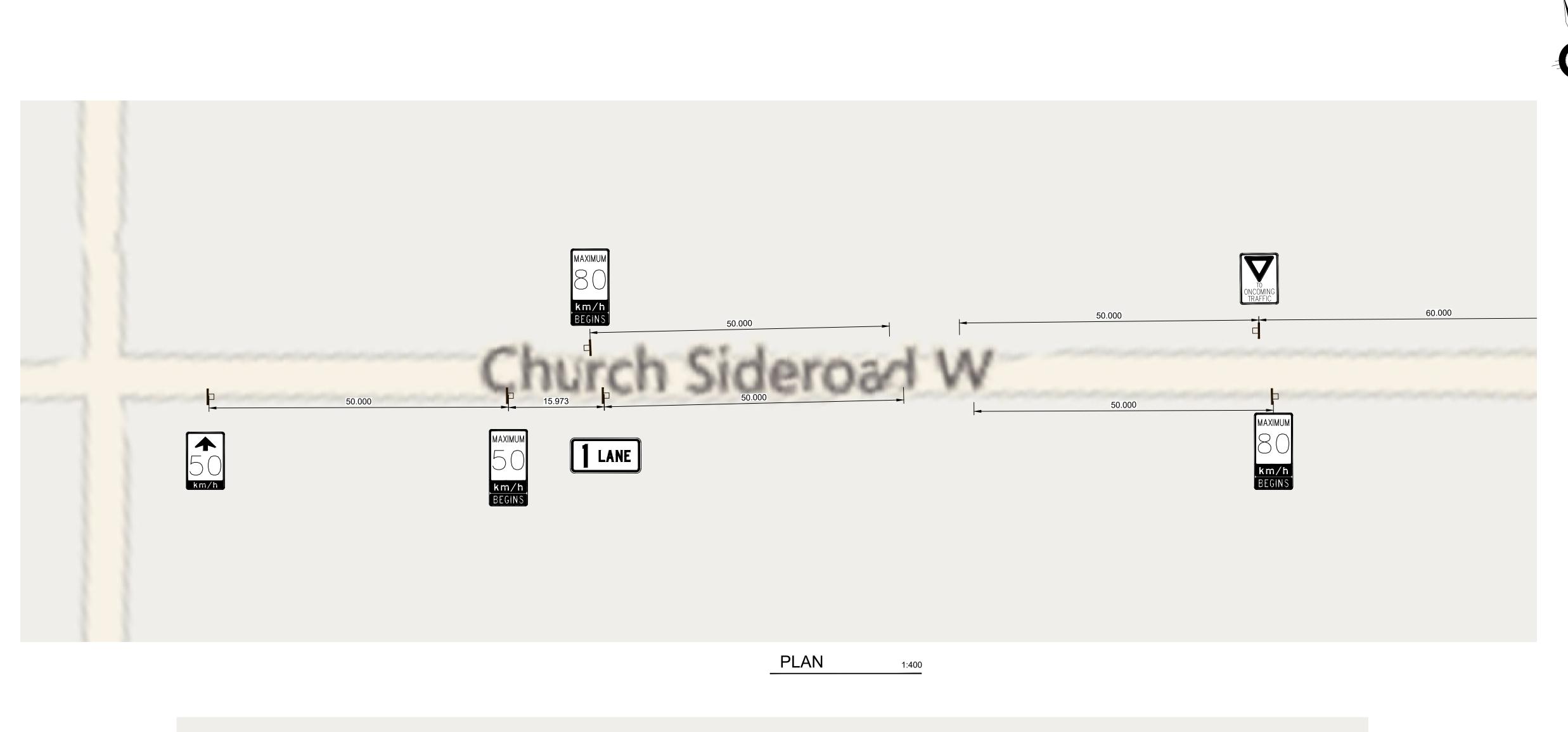
EMERY BRIDGE REPLACEMENT

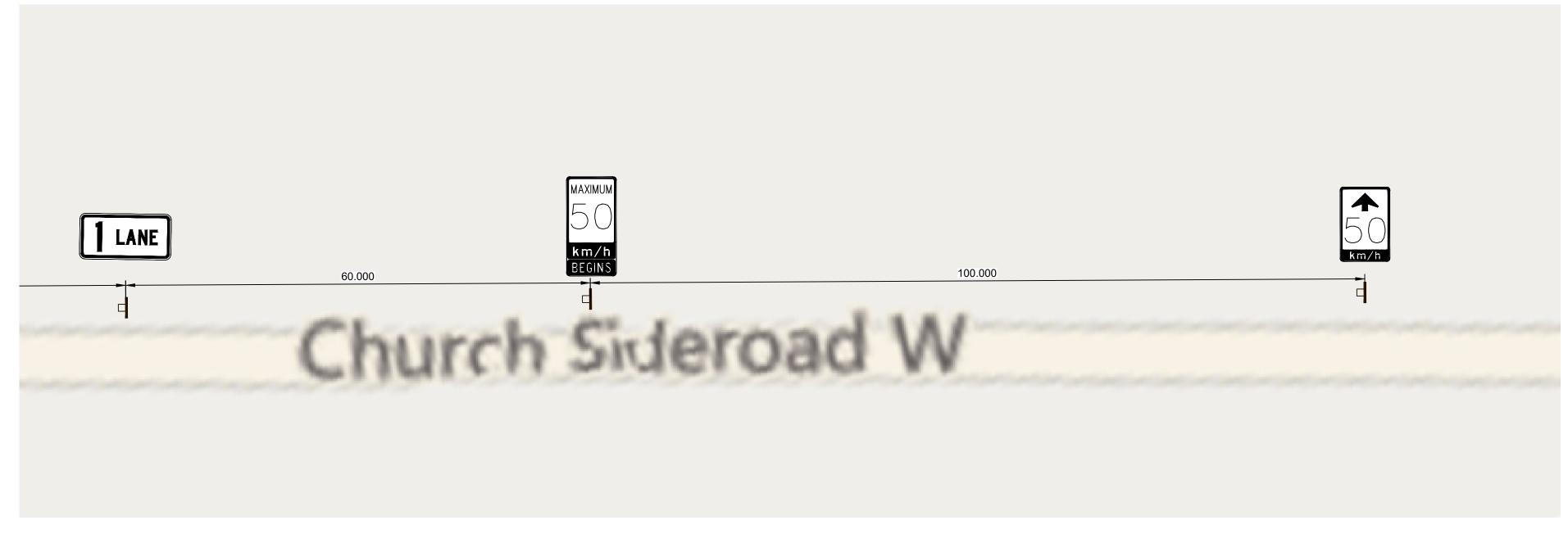
TOWNSHIP OF GEORGIAN BLUFFS

FORMER TOWNSHIP OF KEPPEL

STANDARDS & DETAILS

PROJECT NO.: DRAWING NO.: 2401469 K.V.H. B.A.W. **S10 DESIGNED BY** SCALE: AS SHOWN JANUARY, 202





PLAN

Lindenwood

Lindenwood

Lindenwood

Hogg

Georgian

Bayy (baie
Georgienne)

CHURCH SR W.

Addition Siderd W.

East Linton

TOWNSHIP OF GEORGIAN BLUFF'S

KEY PLAN

NOT TO SCALE

NOTES :

AS RECORDED TOPOGRAPHIC SURVEY CONDUCTED BY GEI
 CONSULTANTS CANADA LTD, NOVEMBER 20, 2023.

LECEND:

-- $\stackrel{\aleph}{-}$ -- Existing ground contour

EXISTING DITCH / SWALE

---- OHP ---- EXISTING OVERHEAD POWER LINE

BENCHMARK 1 ELEV. - 223.09m

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EMERY BRIDGE REPLACEMENT

TOWNSHIP OF GEORGIAN BLUFF'S

FORMER TOWNSHIP OF KEPPEL

| TRAFFIC SIGNAGE | |
|-----------------|--|

| AWN BY : | APPROVED BY : | PROJECT NO.: | DRAWING NO. : |
|-----------|---------------|--------------|---------------|
| CV.H. | B.A.W. | 2401469 | — 4 |
| GNED BY : | DATE : | SCALE: | 1 1 |
| D.D. | JANUARY, 2025 | AS SHOWN | • • |