



Centre Wellington

Township of Centre Wellington Victoria Street Pedestrian Bridge Tender #02-18

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Architectural:

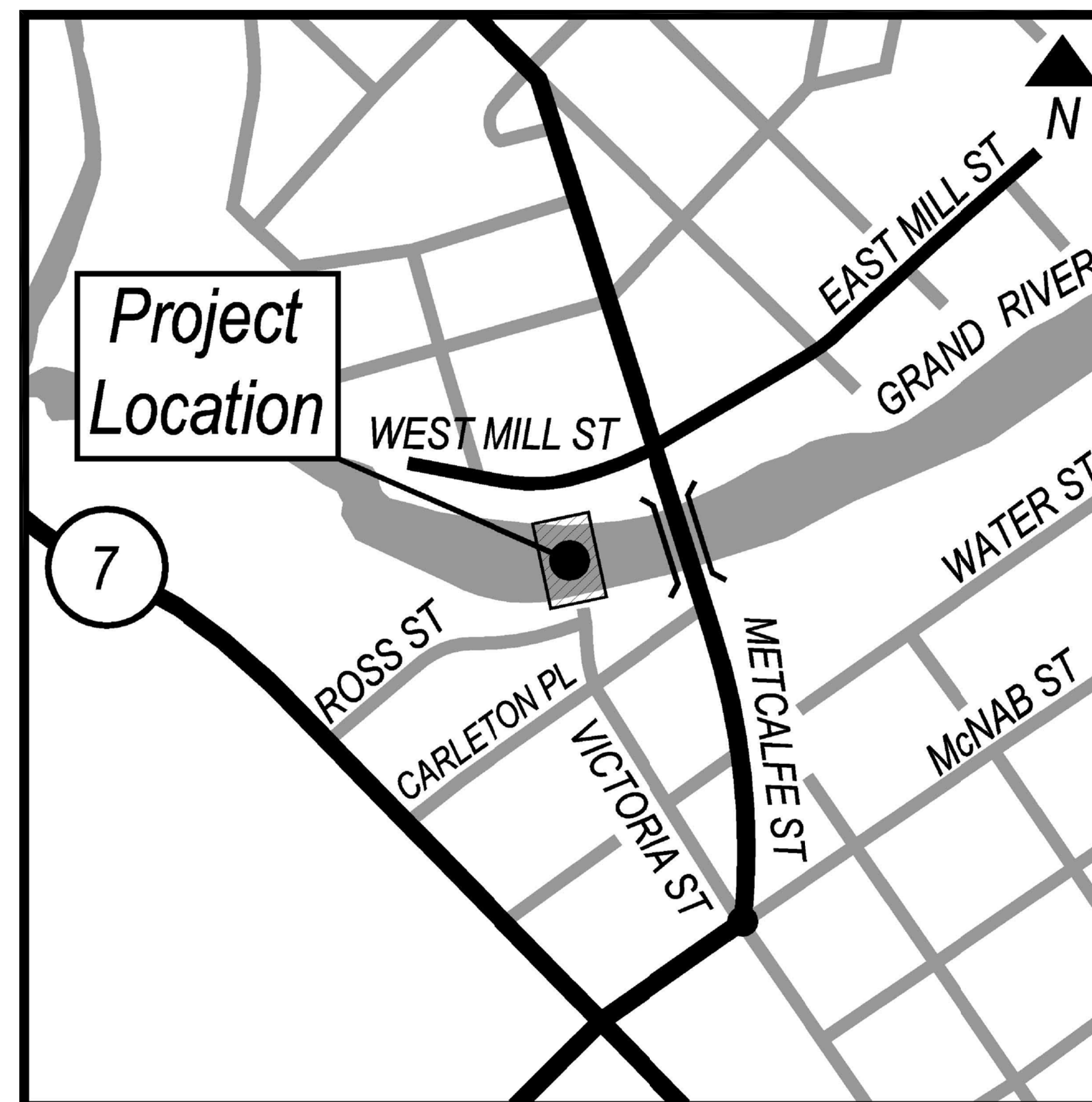
- A-001 Architectural Treatment Concepts
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North Plaza

- L-050 Site Preparation & Removals Plan
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- L-500 Details and Notes
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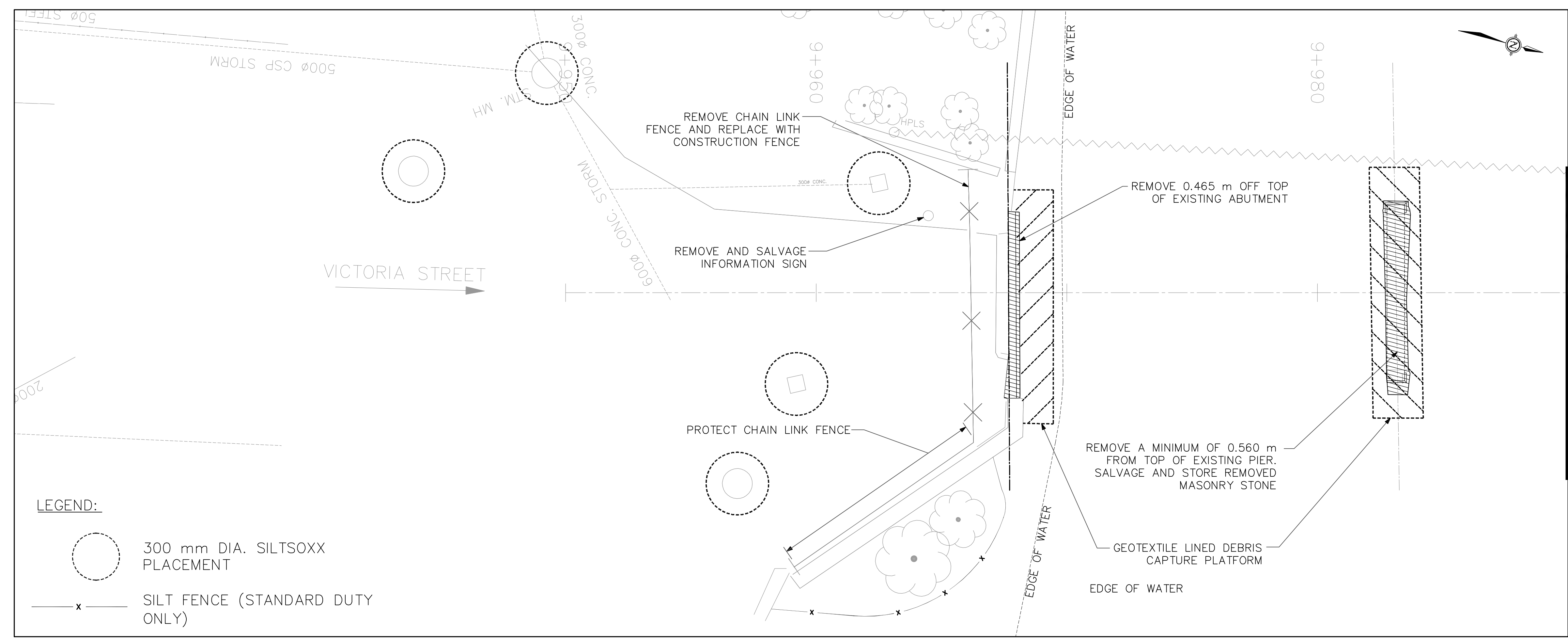
Key Plan
Scale N.T.S.



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Key Map
Scale: N.T.S.



MATCH LINE STA. 9+990

- Notes:
1. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
 2. DRAWINGS PLOTTED HALF SIZE (1/2) ARE NOT TO SCALE.
 3. REMOVAL OF STONE MASONRY PIERS MAY VARY BASED ON SITE CONDITIONS. IF THE REMOVAL ELEVATION DOES NOT LINE UP WITH THE BOTTOM OF AN EXISTING MASONRY COURSE, THE REMOVAL OF MASONRY WILL EXTEND TO THE FIRST IMMEDIATE COURSE BELOW THE REMOVAL ELEVATION LINE.
 4. EXISTING RETAINING WALL ADJACENT TO STEVE'S SHEEPSKIN SHALL BE SAW CUT AT THE LIMIT OF THE NEW TOE WALL BASE AND REMOVED BY THE CONTRACTOR.

Legend:

No.	REVISIONS	Date	By	App.
6.	ISSUED FOR CONSTRUCTION	05/17/18	A.D.	S.T.
5.	ADDENDUM 4	04/16/18	A.D.	S.T.
4.	ADDENDUM 1	04/06/18	A.D.	S.T.
3.	ISSUED FOR TENDER	03/28/18	A.D.	S.T.
2.	ISSUED FOR 60% REVIEW	02/15/18	A.D.	S.T.
1.	ISSUED FOR 30% REVIEW	01/15/18	A.D.	S.T.



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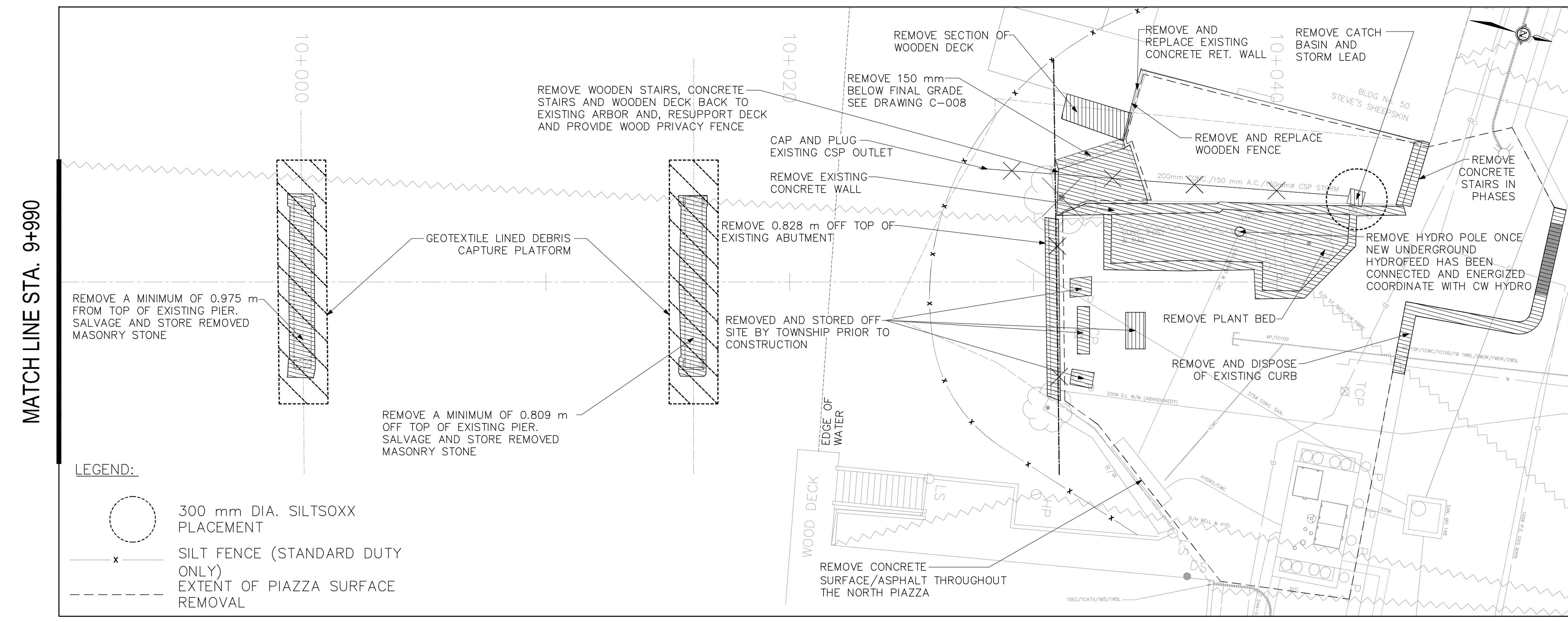
Location:
**VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO**

Title:
**REMOVALS I & EROSION/SEDIMENT
CONTROL PLAN**

Designed By: S.J.T.	Checked By: n/a	Date: May 2018
Drawn By: A.D.	Checked By: n/a	Project No.: 17-012
Scale:	Horizontal 1:100	
0m 1 2 4		

Drawing No.:

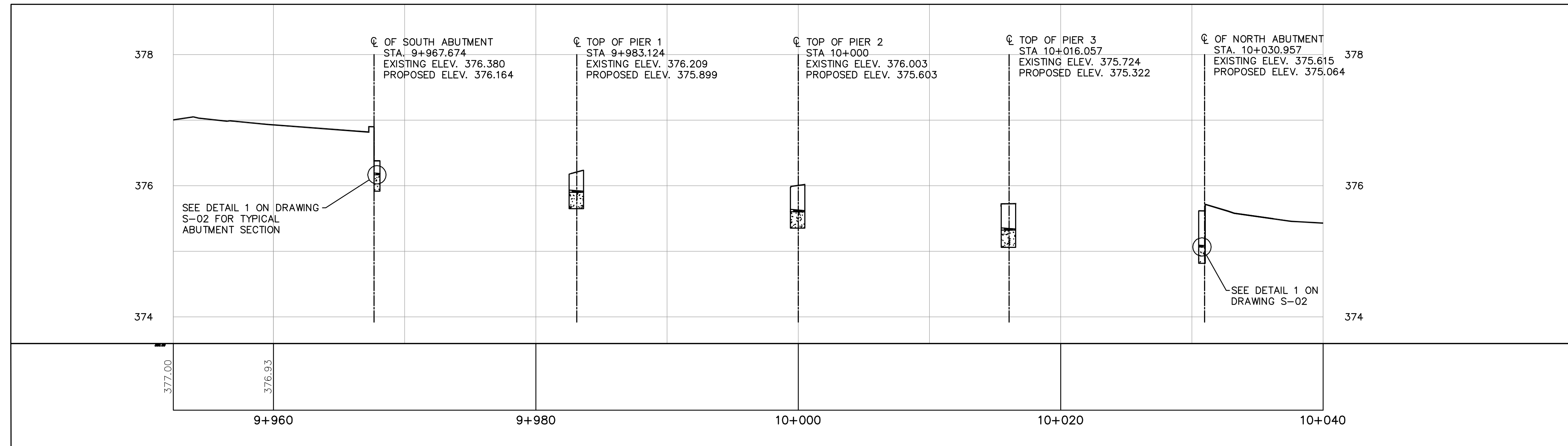
C-001



MATCH LINE STA. 9+990

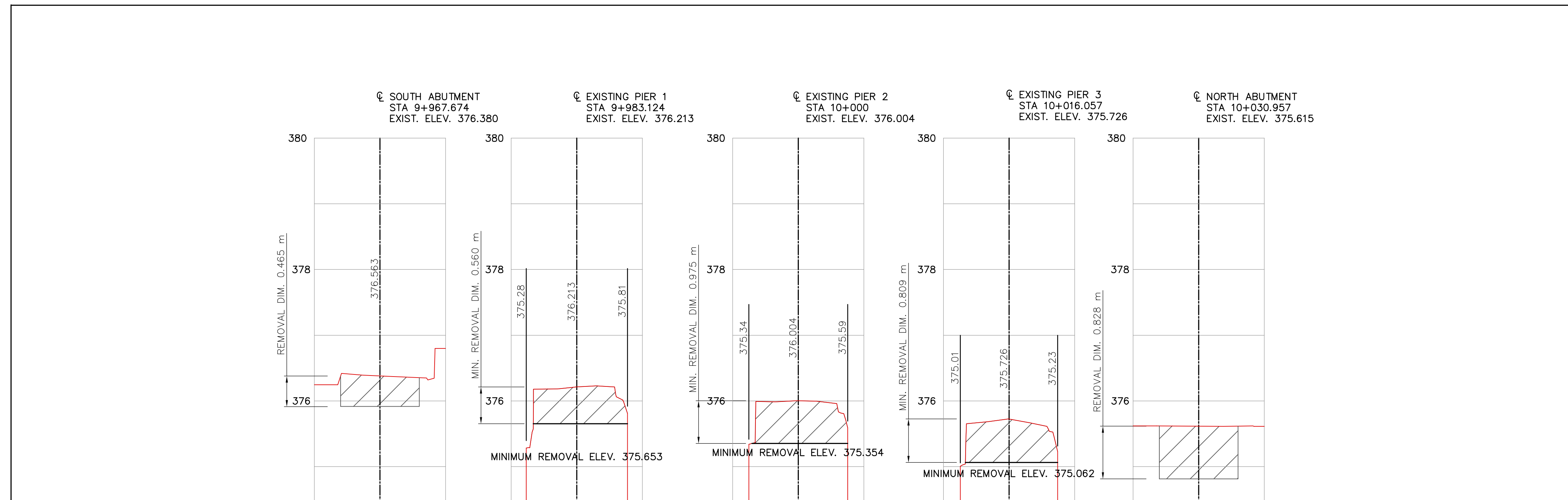
- LEGEND:
- 300 mm DIA. SILT SOXX PLACEMENT
 - x SILT FENCE (STANDARD DUTY ONLY)
 - - - - - EXTENT OF PIAZZA SURFACE REMOVAL

V:\BCEC\Projects\2017\Proj\17-012 - Centre Wellington - Victoria St. Ped. Bridge - 2D\A\BCEC-Drawings\WOP\Drawings\17-012_ISSUED_FOR_CONSTRUCTION.dwg | May 18, 2018 - 11:28am



PIER AND ABUTMENT REMOVAL PROFILE

SCALE: HORIZ: 1:200
VER: 1:40



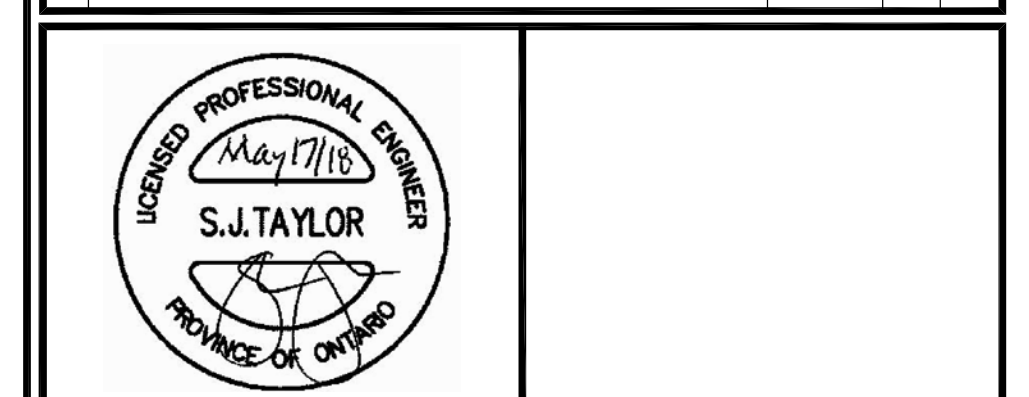
PIER AND ABUTMENT REMOVAL CROSS SECTIONS

SCALE: HORIZ: 1:200
VER: 1:40

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 4. THE DEPTH OF NEW PIER CAP CONCRETE SHALL BE DETERMINED FOLLOWING THE MASONRY REMOVALS. ACTUAL DEPTH WILL MATCH LIMIT OF MASONRY REMOVALS.

Legend:

No.	REVISIONS	Date	By	App.
4.	ISSUED FOR CONSTRUCTION	05/17/18	A.D.	S.T.
3.	ISSUED FOR TENDER	03/28/18	A.D.	S.T.
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1.	ISSUED FOR 30% REVIEW	01/15/18	A.D.	S.T.



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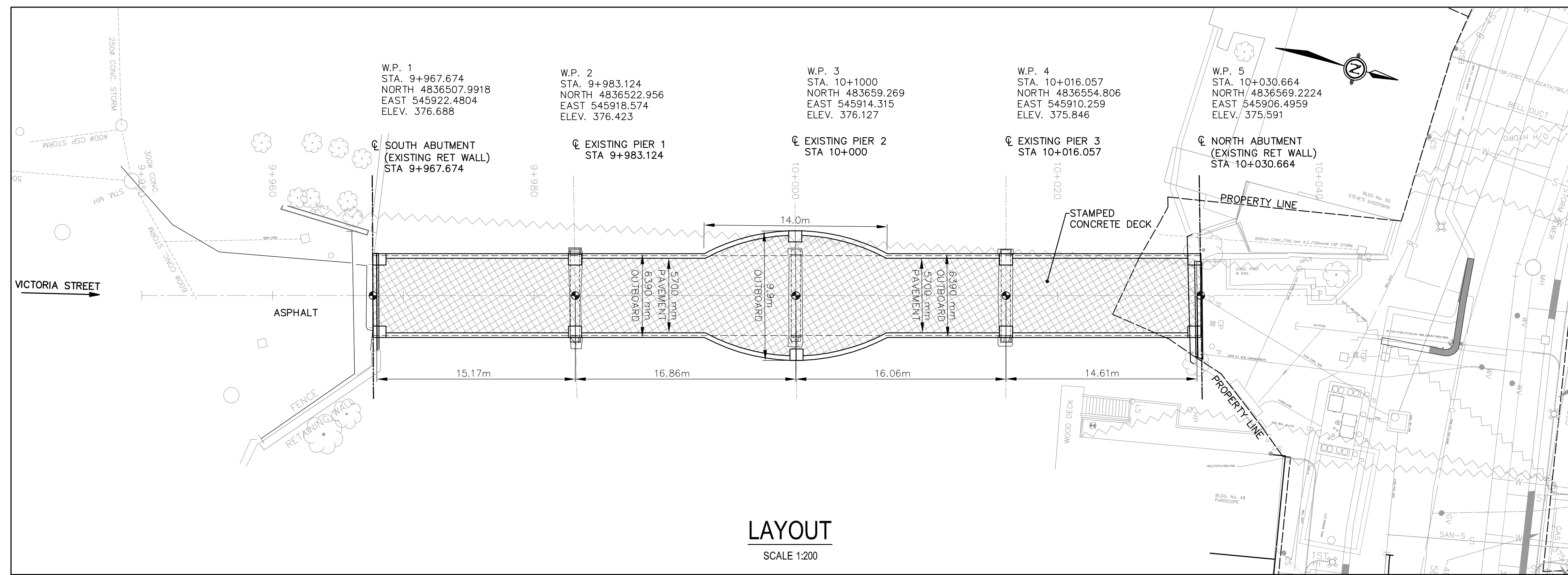
Location:
VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title:
REMOVALS II

Designed By: S.J.T.	Checked By: n/a	Date: May 2018
Drawn By: A.D.	Checked By: n/a	Project No.: 17-012

Scale:
As Noted

Drawing No.:
C-002

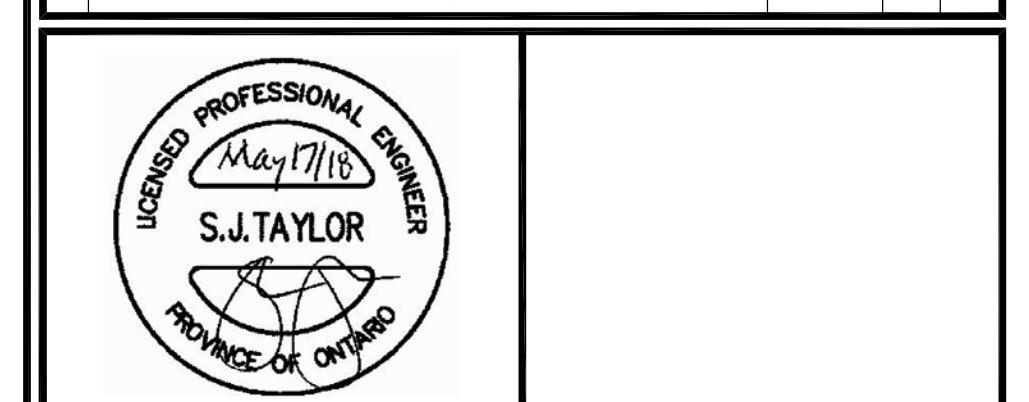
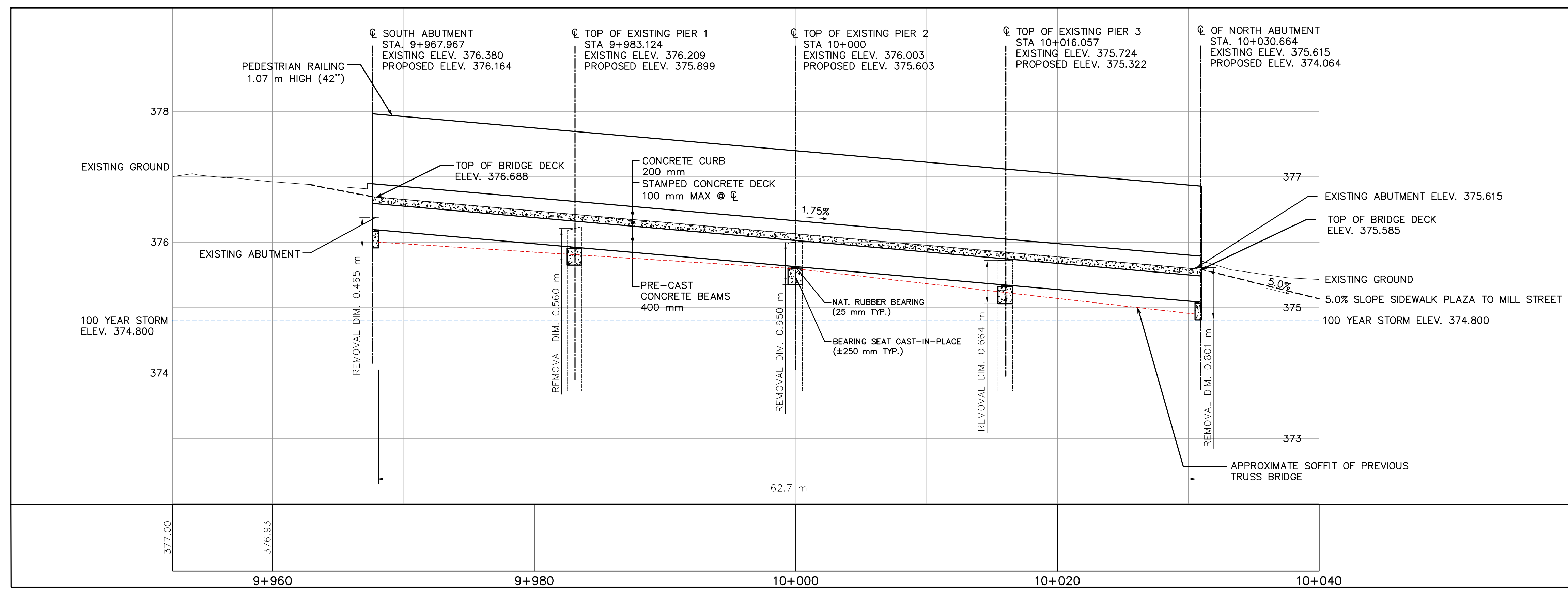


Key Map
Scale: N.T.S.

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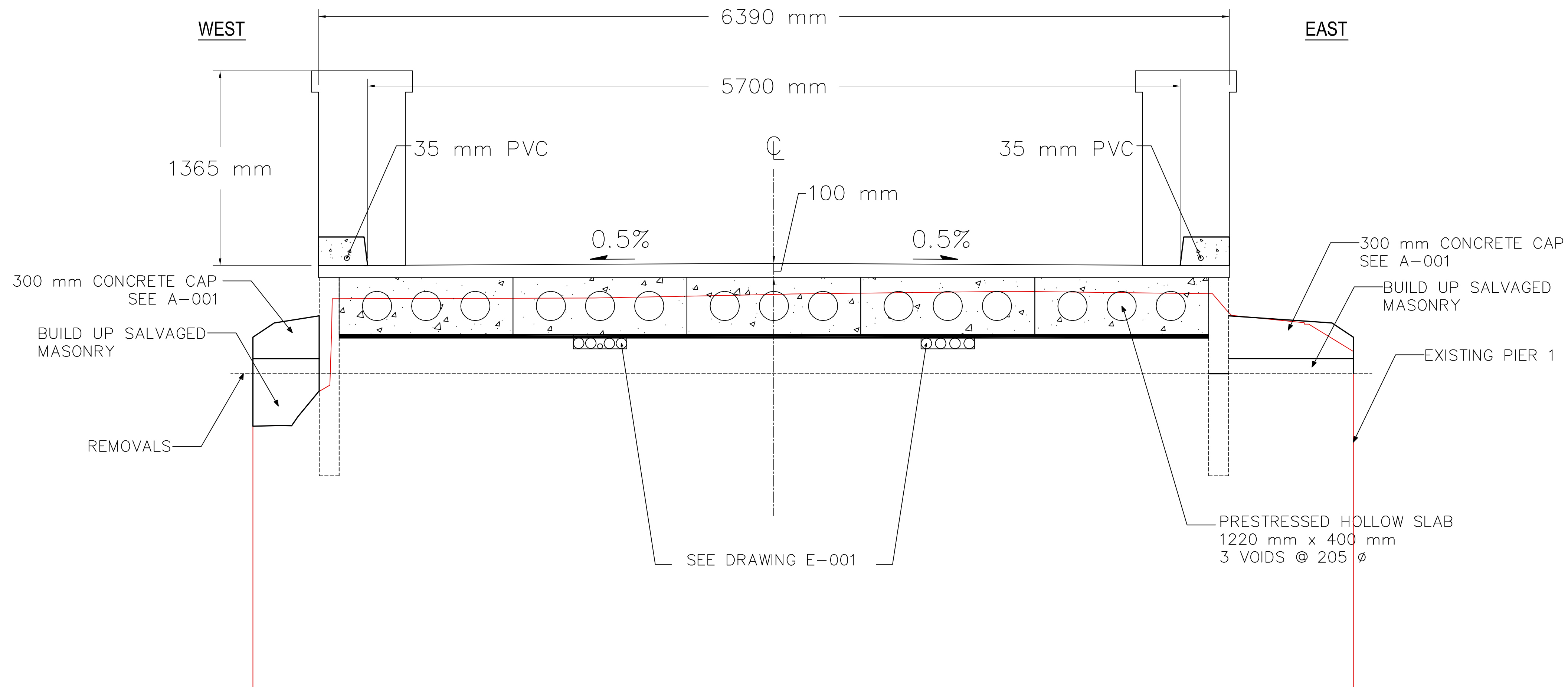
Location:
**VICTORIA STREET PEDESTRIAN BRIDGE
 ELORA, ONTARIO**

Title:
GEOMETRY AND LAYOUT

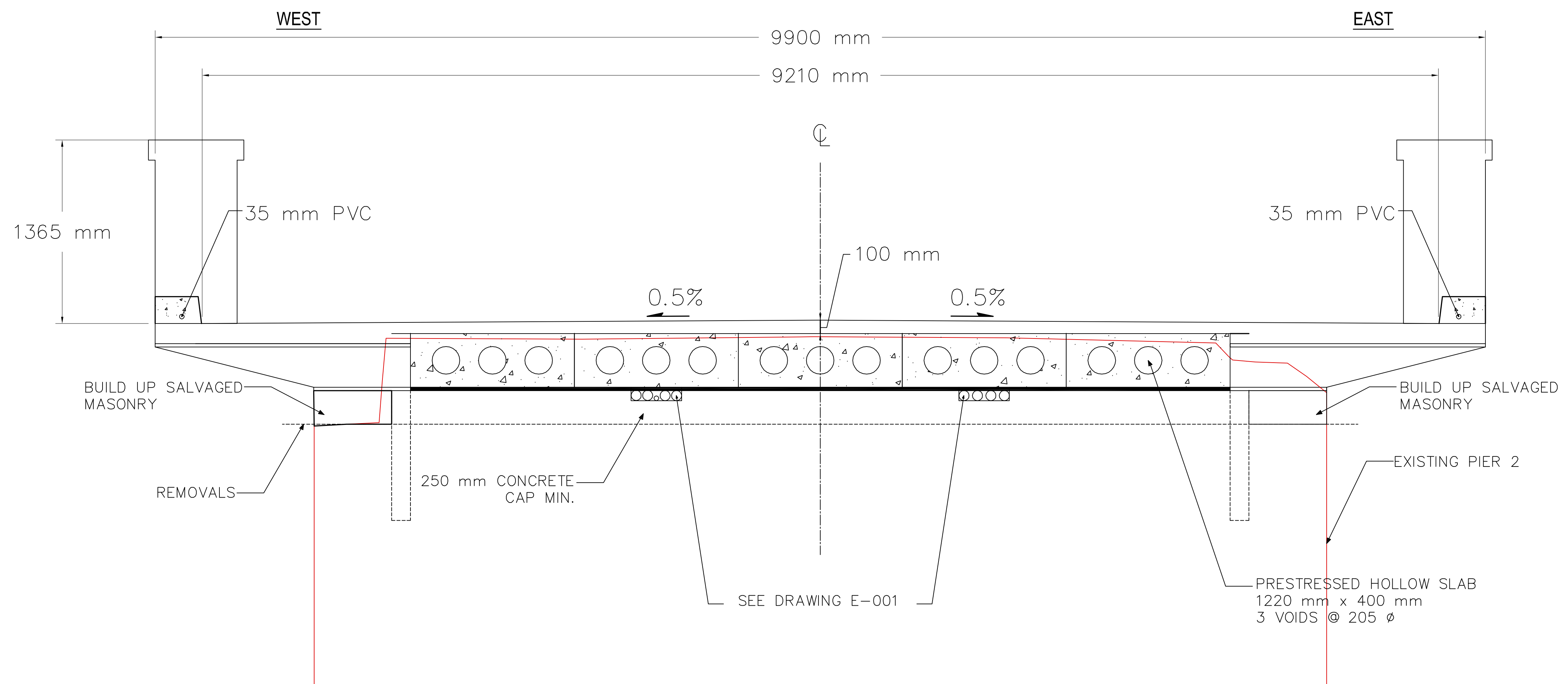
Designed By: S.J.T.	Checked By: n/a	Date: May 2018
Drawn By: A.D.	Checked By: n/a	Project No.: 17-012
Scale:	As Noted	

Drawing No.:
C-003

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SECTION PIER 1 STA. 9+983.124
SCALE 1:20



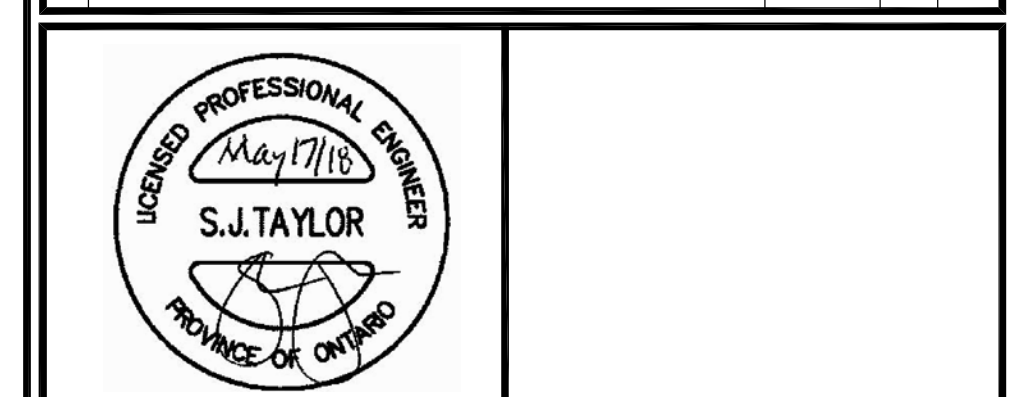
SECTION PIER 2 STA. 10+000.000
SCALE 1:20

Key Map
Scale: N.T.S.

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Legend:

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1.	30% REVIEW	01/15/18	A.D.	S.T.



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Location:
VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title:
DECK SECTIONS I

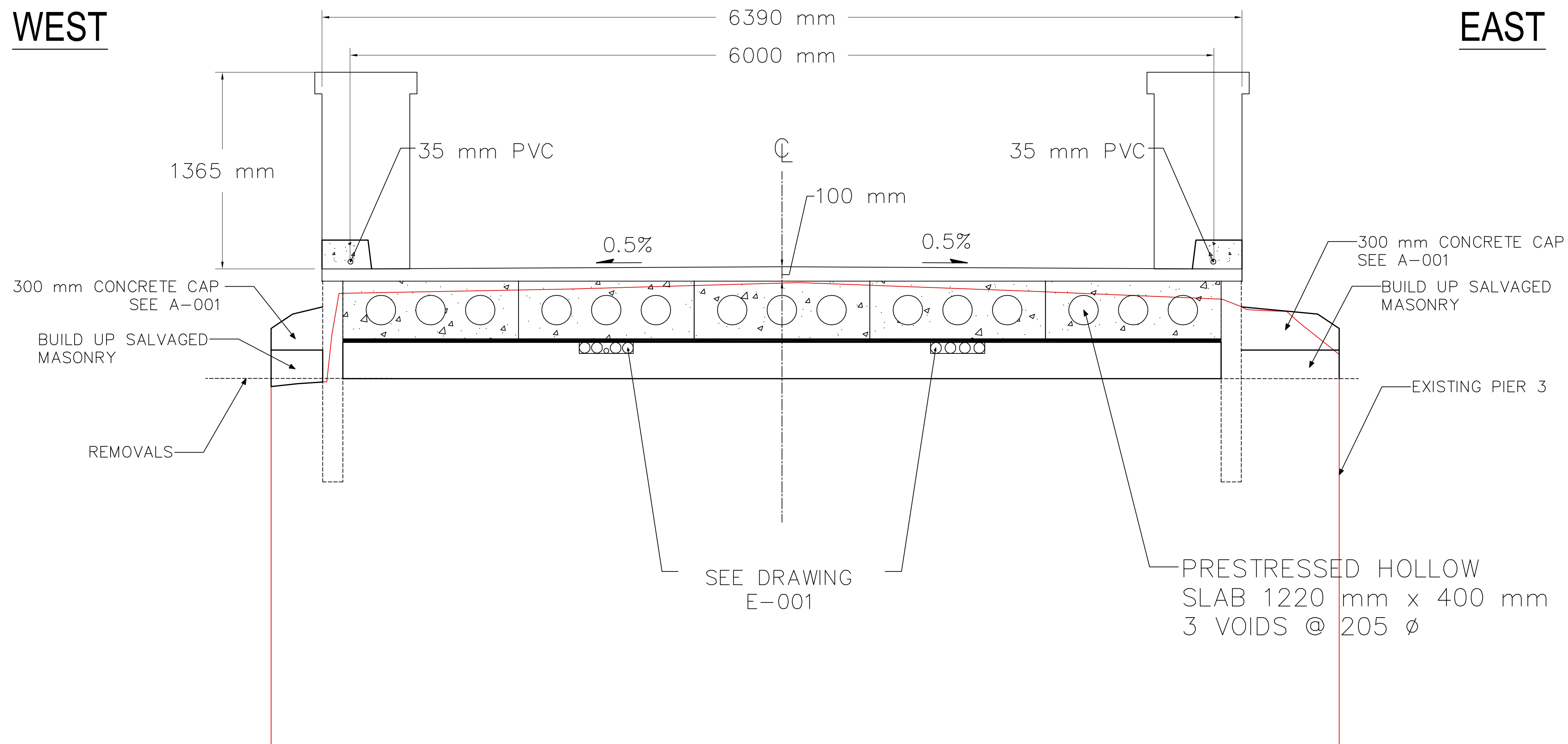
Designed By: S.J.T.	Checked By: n/a	Date: May 2018
Drawn By: A.D.	Checked By: n/a	Project No.: 17-012

Scale:
As Noted

Drawing No.:
C-004

WEST

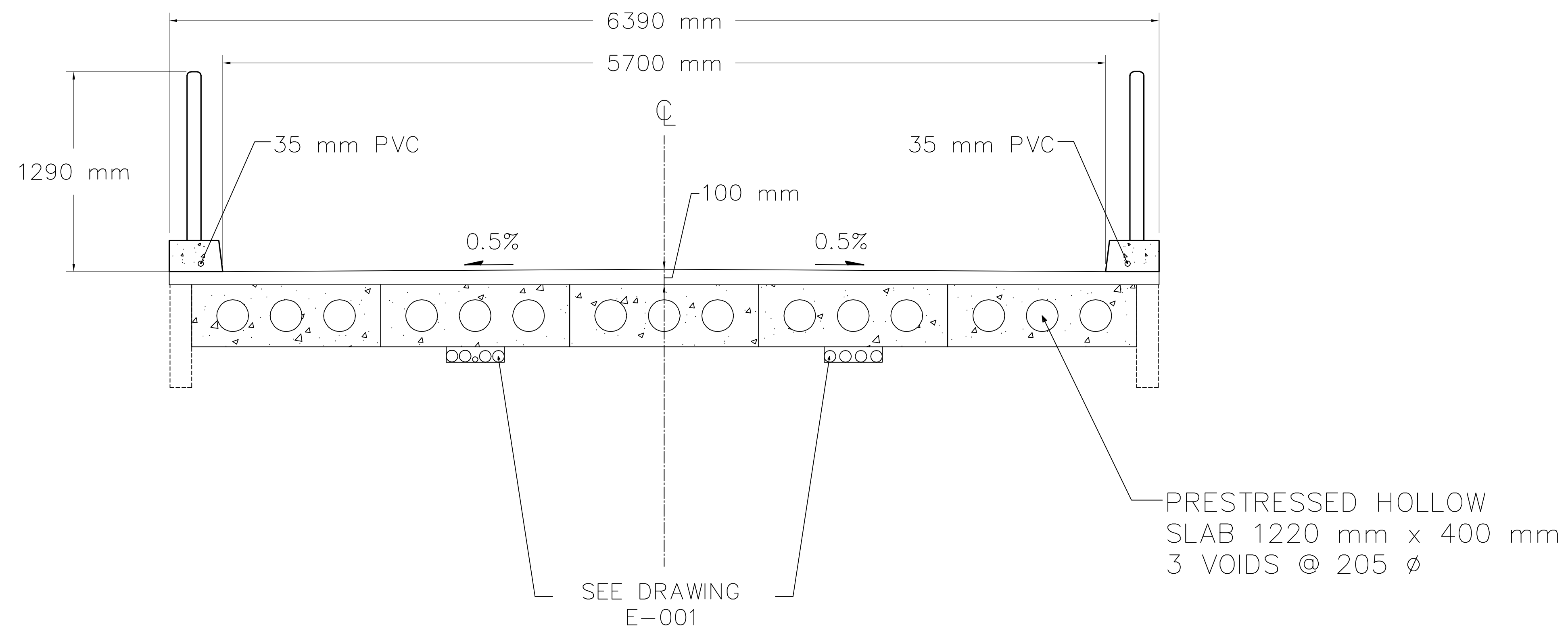
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SECTION PIER 3 STA. 10+016.057
SCALE 1:20

WEST

EAST



SECTION STA. 10+020.000
SCALE 1:20

Key Map
Scale: N.T.S.

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Owner/Client:

Centre Wellington

Location: VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

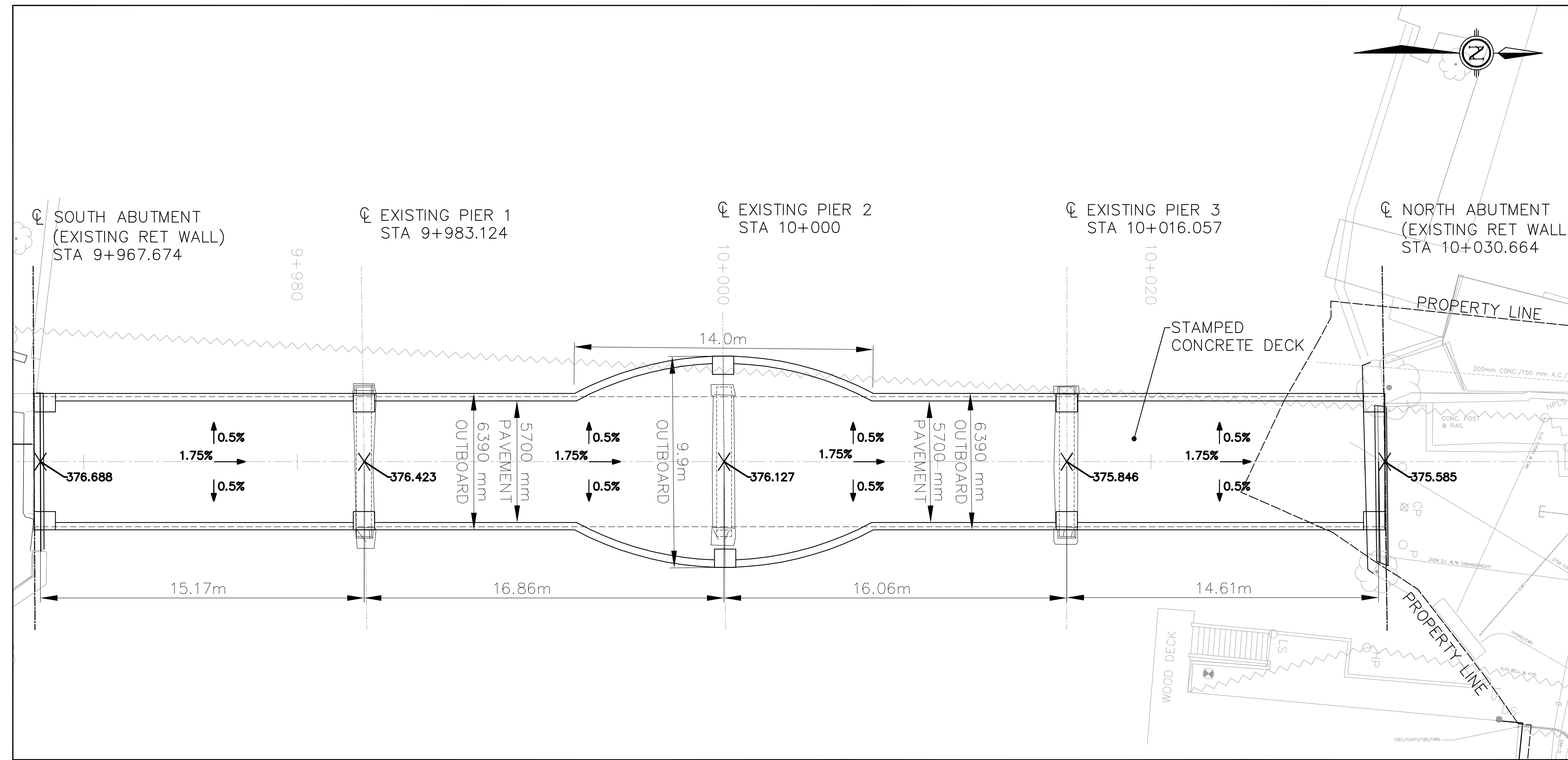
Title: DECK SECTION II

Designed By: S.J.T.	Checked By: n/a	Date: May 2018
Drawn By: A.D.	Checked By: n/a	Project No.: 17-012

Scale: As Noted

Drawing No: C-005

Key Map
Scale: N.T.S.



FINISHED DECK ELEVATIONS
N.T.S.

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1.	30% REVIEW	01/15/18	A.D.	S.T.



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Owner/Client:



Location:
**VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO**

Title:
FINISHED DECK ELEVATIONS

Designed By: S.J.T.	Checked By: n/a	Date: May 2018
Drawn By: A.D.	Checked By: n/a	Project No.: 17-012

Scale:
As Noted

Drawing No.:
C-006

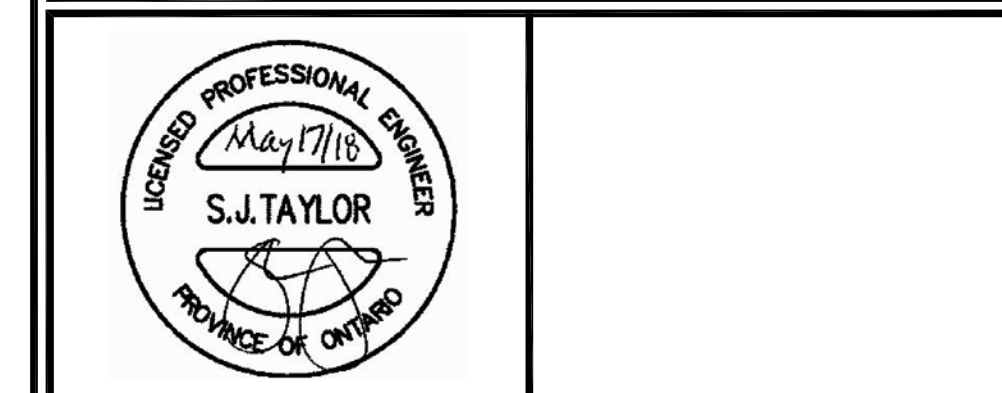
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Key Map
Scale: N.T.S.

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2.	ISSUED FOR 60% REVIEW	02/15/18	A.D.	S.T.
1.	30% REVIEW	01/15/18	A.D.	S.T.



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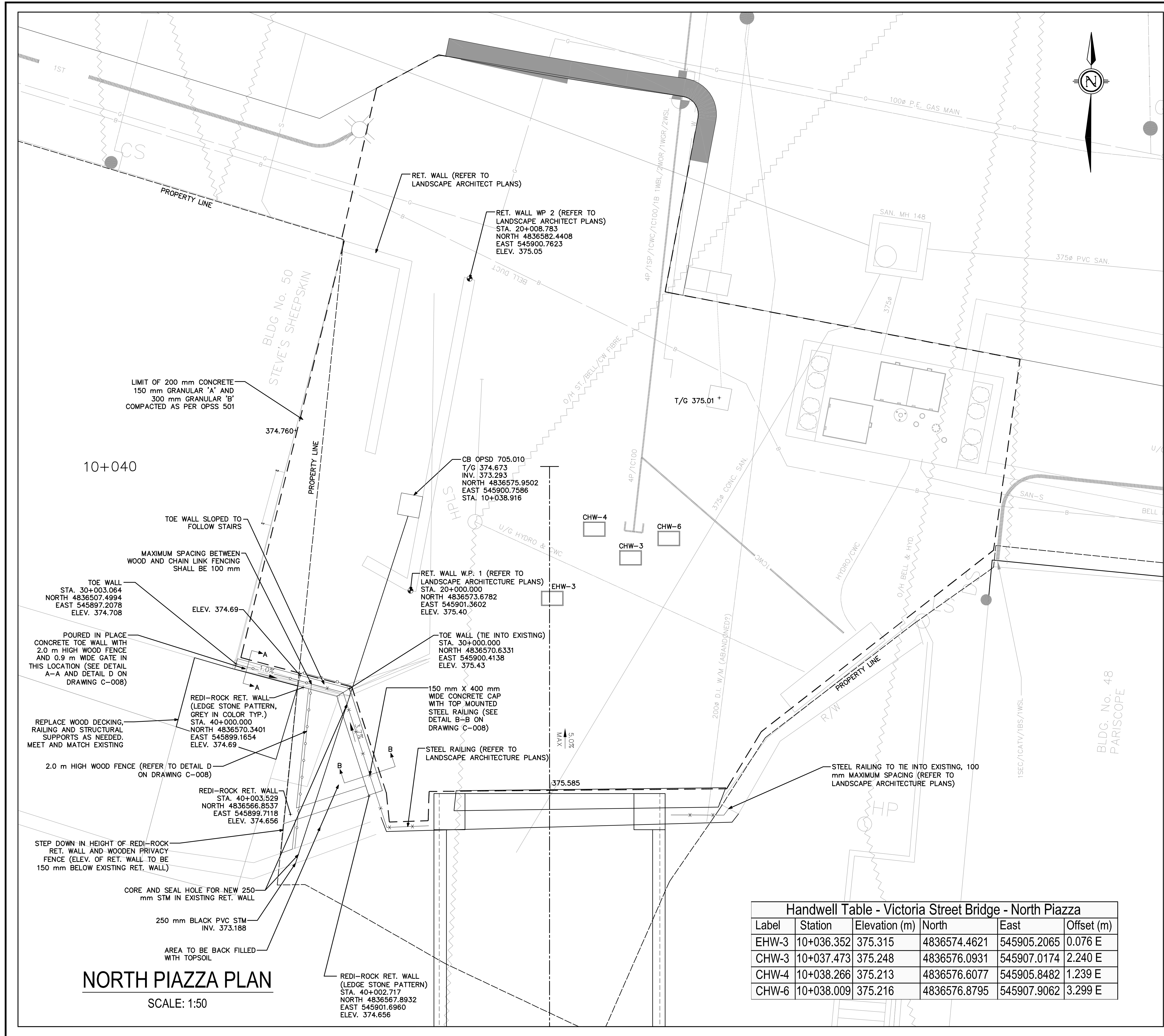
Location: **VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO**

Title: **NORTH PIAZZA PLAN**

Designed By: S.J.T. Checked By: n/a Date: May 2018
Drawn By: A.D. Checked By: n/a Project No.: 17-012

Scale: **As Noted**

Drawing No.: **C-007**

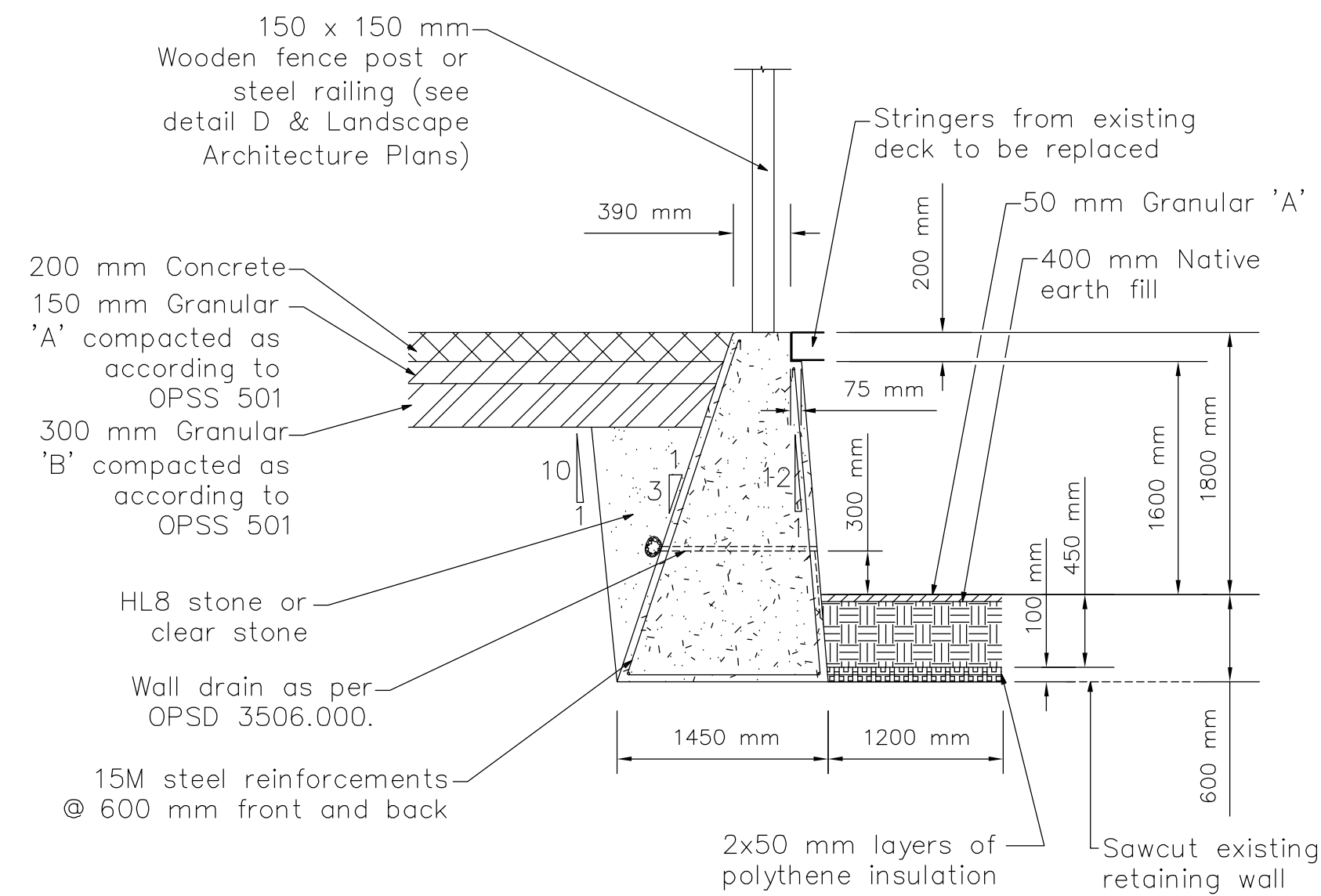


NORTH PIAZZA PLAN
SCALE: 1:50

Handwell Table - Victoria Street Bridge - North Piazza

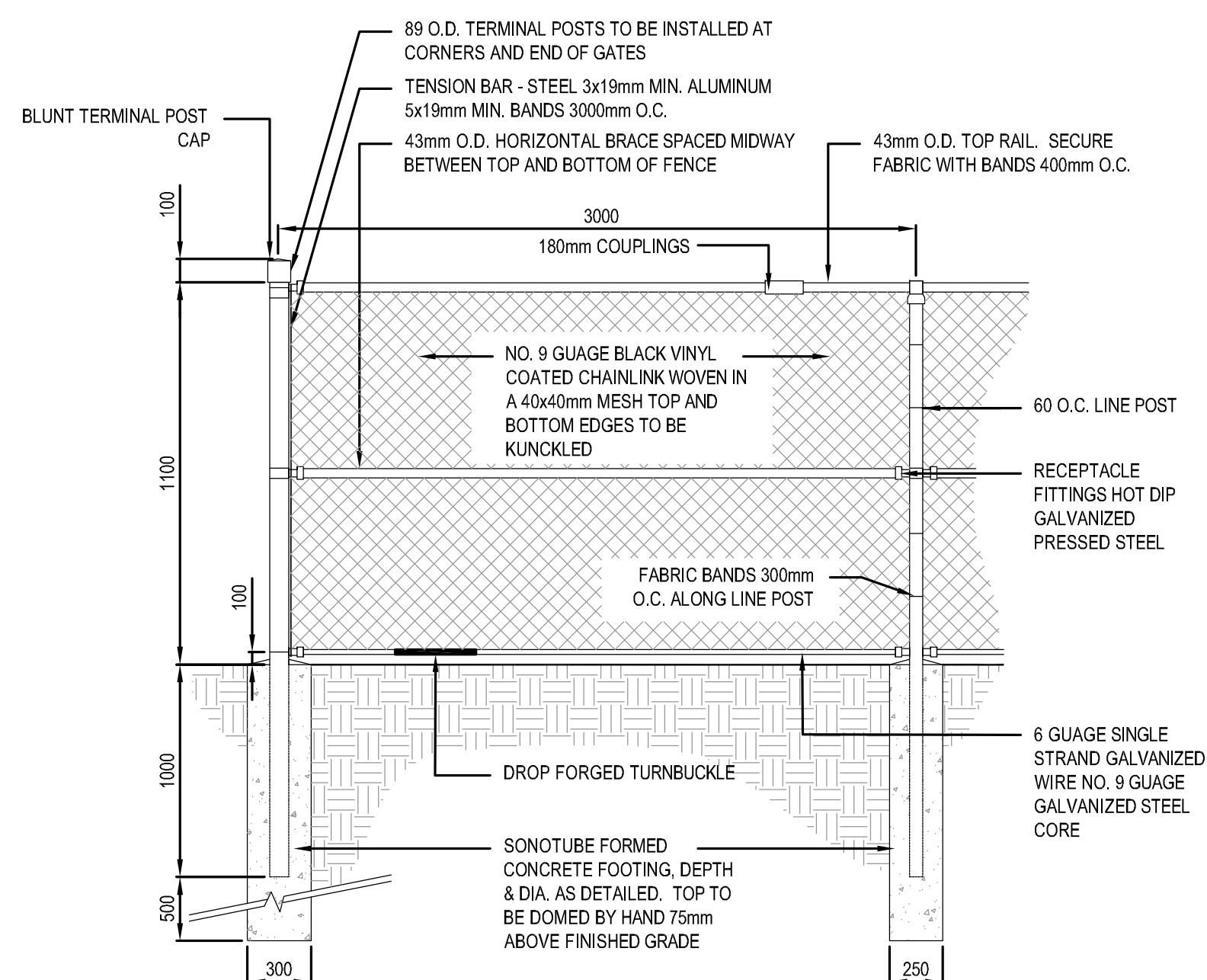
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CHW-3	10+037.473	375.248	4836576.0931	545907.0174	2.240 E
CHW-4	10+038.266	375.213	4836576.6077	545905.8482	1.239 E
CHW-6	10+038.009	375.216	4836576.8795	545907.9062	3.299 E

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DETAIL A-A TOE WALL

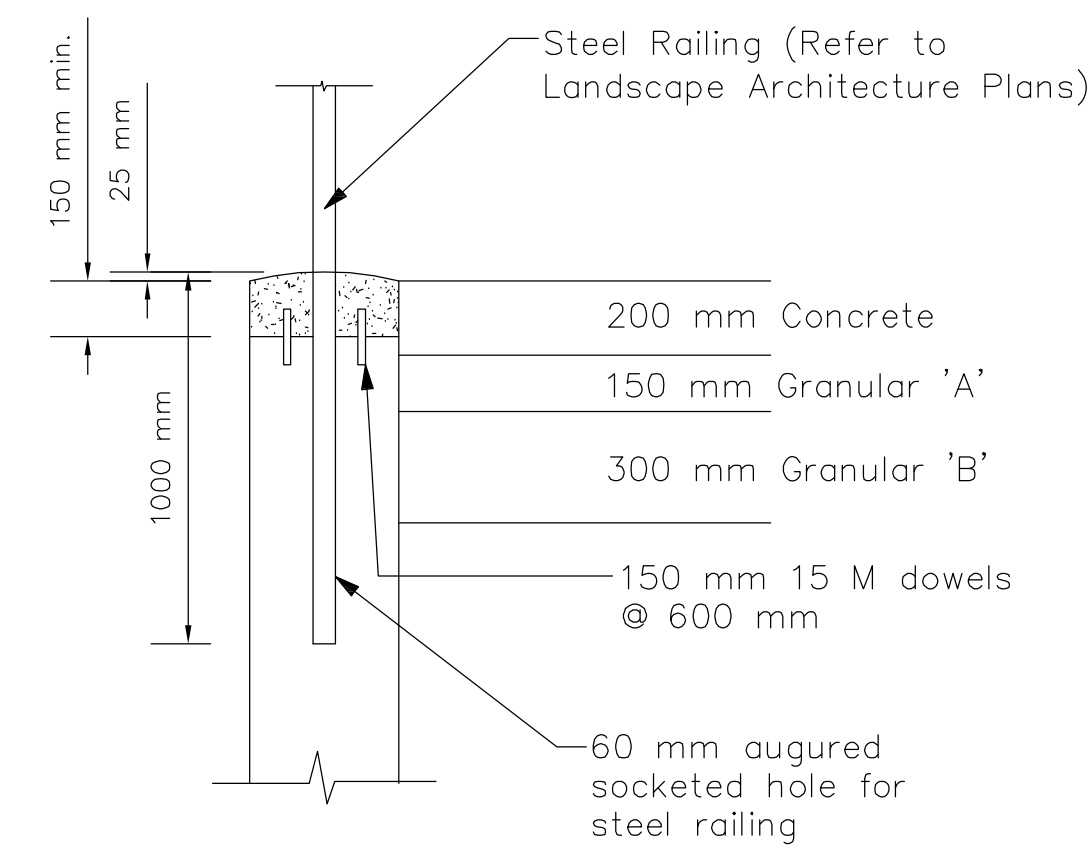
N.T.S.
OPSD 3120.100 Type II (MOD)



DETAIL C - 1.2/1.8 m BLACK VINYL CHAIN LINK FENCE

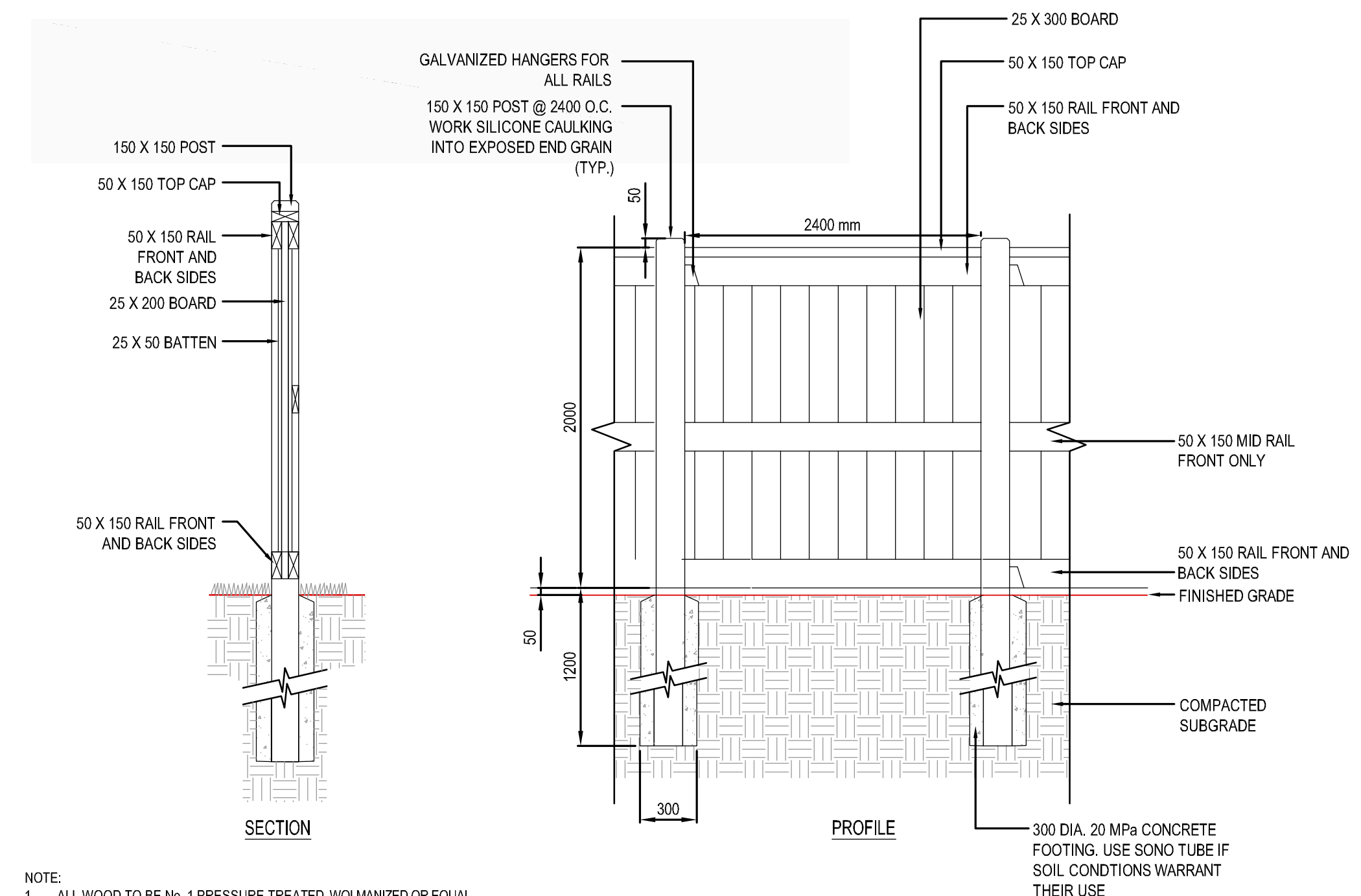
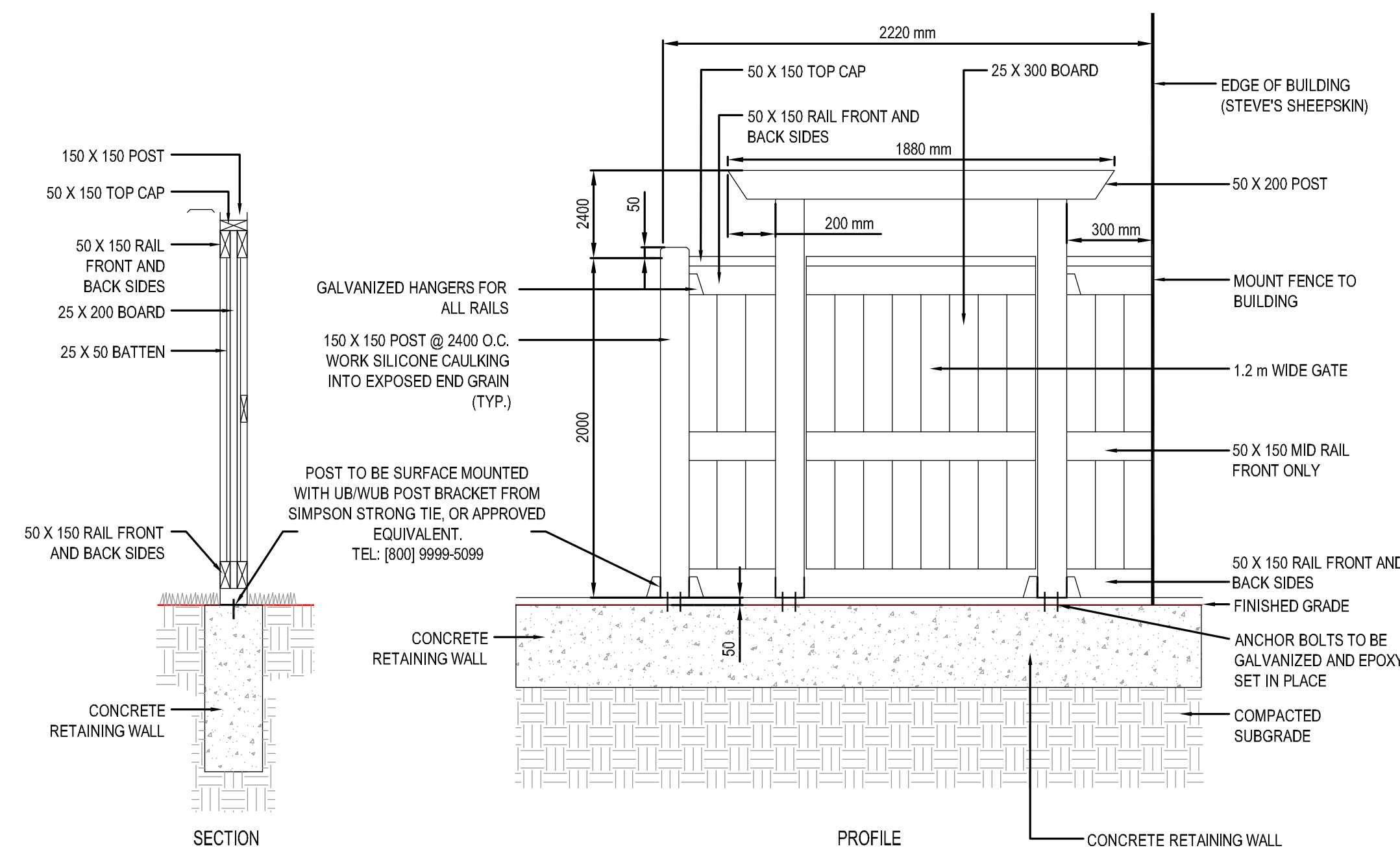
N.T.S.

- NOTES:
1. ALL FENCE COMPONENTS TO BE PAINT TREATED WITH AN EPOXY POLYESTER POWDER COAT FINISH.
 2. CONCRETE FOR FOOTINGS TO BE 20MPa AT 28 DAYS.
 3. ONLY SCHEDULE 40 GALVANIZED PIPES WILL BE ACCEPTED. COLOUR TO BE BLACK.



DETAIL B-B CONCRETE CAP

N.T.S.



- NOTE:
1. ALL WOOD TO BE No. 1 PRESSURE TREATED, WOLMINIZED OR EQUAL.
 2. USE HOT DIPPED GALVANIZED ARDOX NAILS AND HARDWARE WHERE REQUIRED.
 3. ALL WOOD TO CONFORM WITH CSA 080-M1983. ALL BRACKETS AND FASTENERS TO BE HOT DIPPED GALVANIZED AND CONFORM WITH CSA G164-M1981.
 4. CONTRACTOR IS RESPONSIBLE FOR SUBMISSION OF SHOP DRAWINGS AND AS BUILT TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.

DETAIL D - 2.0 m HT BOARD PRIVACY FENCE AND GATE

N.T.S.

Key Map
Scale: N.T.S.

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PROFESSIONAL ENGINEER
May 17/18
S.J. TAYLOR
PROVINCE OF ONTARIO

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Owner/Client:

Centre Wellington

Location:
VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title:
TOE WALL, CONCRETE CAP AND
FENCE DETAILS

Designed By: S.J.T. Checked By: n/a Date: May 2018

Drawn By: A.D. Checked By: n/a Project No.: 17-012

Scale:
N.T.S.

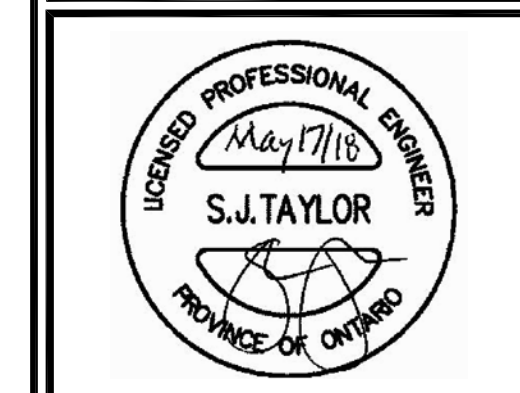
Drawing No.:
C-008

Key Map
Scale: N.T.S.

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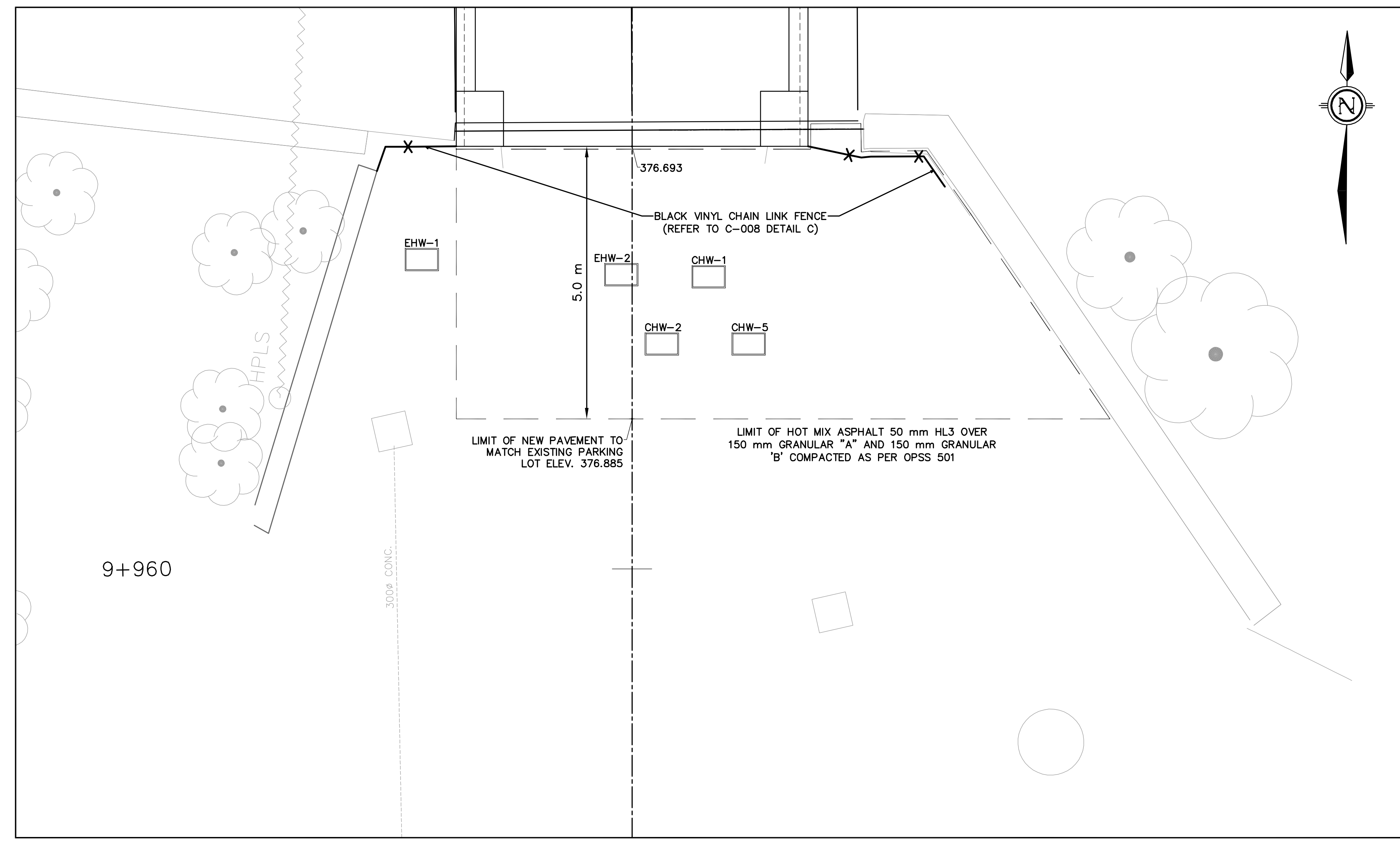
Location:
VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title:
SOUTH APPROACH PLAN

Designed By: S.J.T. Checked By: n/a Date: May 2018
Drawn By: A.D. Checked By: n/a Project No.: 17-012

Scale:
As Noted

Drawing No.:
C-009

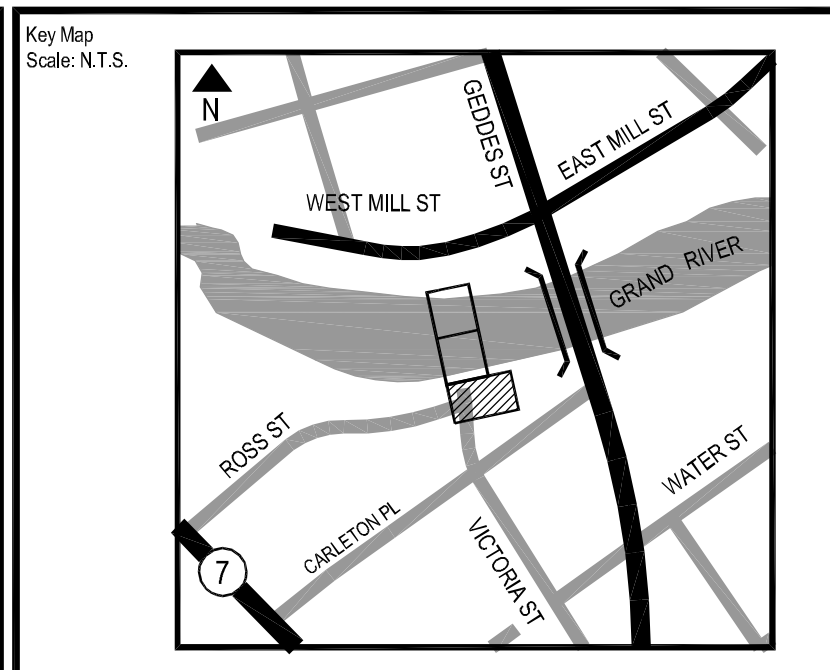


SOUTH APPROACH

SCALE 1:50

Label	Station	Elevation (m)	North	East	Offset (m)
EHW-1	9+965.617	376.775	4836506.0370	545919.3045	3.819 W
EHW-2	9+965.344	376.783	4836506.6881	545922.8799	0.195 W
CHW-1	9+965.304	376.785	4836506.0503	545924.4254	1.392 E
CHW-2	9+964.084	376.832	4836504.6550	545923.9106	0.541 E
CHW-5	9+964.084	376.832	4836505.0528	545925.4367	2.118 E

V:\BTEng Projects\2017 Proj\01-02 - Centre Wellington Victoria St Ped Bridge - C-009.dwg (S:\Projects\2017 Proj\01-02 - Centre Wellington Victoria St Ped Bridge - C-009.dwg) [May 18, 2018 - 11:30am]



Notes:
 1. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
 2. DRAWINGS PLOTTED HALF SIZE (11x17) ARE NOT TO SCALE.

Legend:

No.	REVISIONS	Date	By	App.
3.	ISSUED FOR CONSTRUCTION	05/17/18	A.D.	S.T.
2.	ISSUED FOR TENDER	09/23/18	A.D.	S.T.
1.	ISSUED FOR 60% REVIEW	2/15/18	A.D.	S.T.



BT ENGINEERING
BTE
 Tel: 519-672-2222 Fax: 1-519-486-0775
 25 Base Line Road West, Suite 11A
 London, ON N6J 1V1
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 www.bterng.ca



Location: VICTORIA STREET PEDESTRIAN BRIDGE
 ELORA, ONTARIO

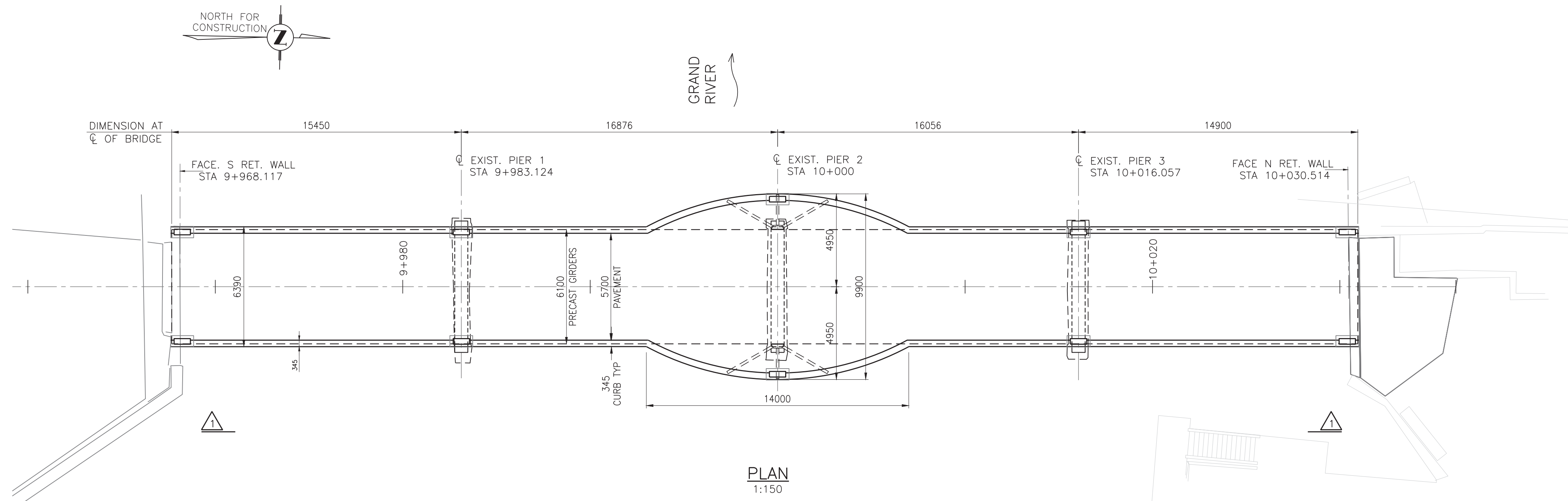
Title: BEAM DELIVERY LOCATION & CONTRACTOR LAYDOWN AREA

Designed By: S.T. Checked By: M.B. Date: February 2018
 Drawn By: A.D. Checked By: M.B. Project No.: 17-012

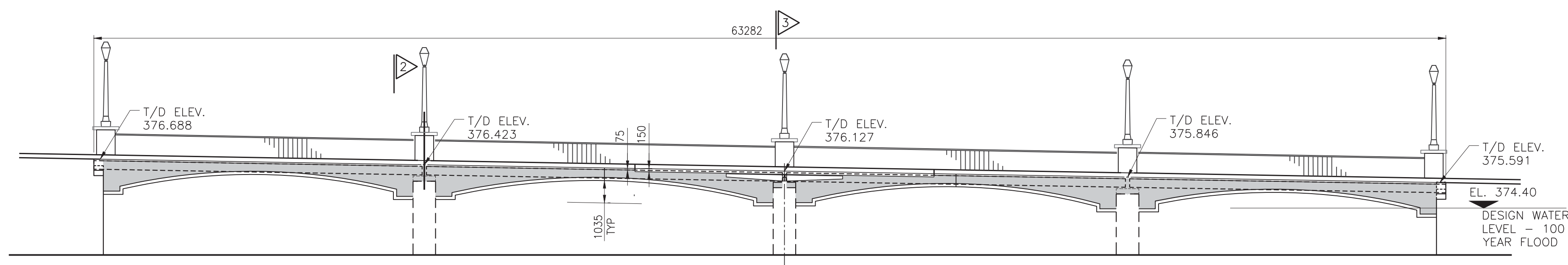
Scale: N.T.S.

Drawing No.: C-010

NOTE:
ALL DIMENSION SHOWN ARE IN METRES AND/OR MILLIMETRES UNLESS NOTED OTHERWISE.



PLAN
1:150



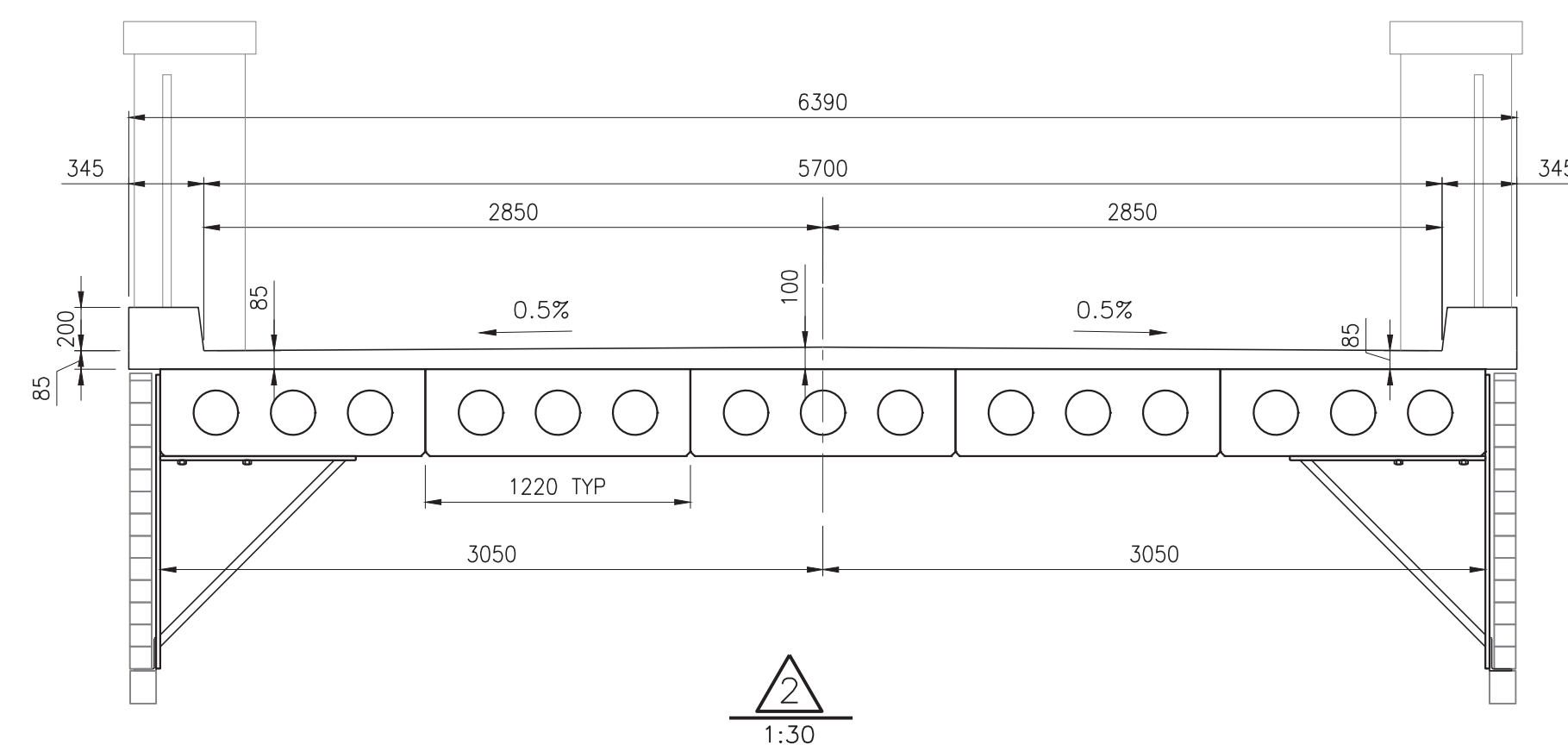
ELEVATION
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LIST OF DRAWINGS:

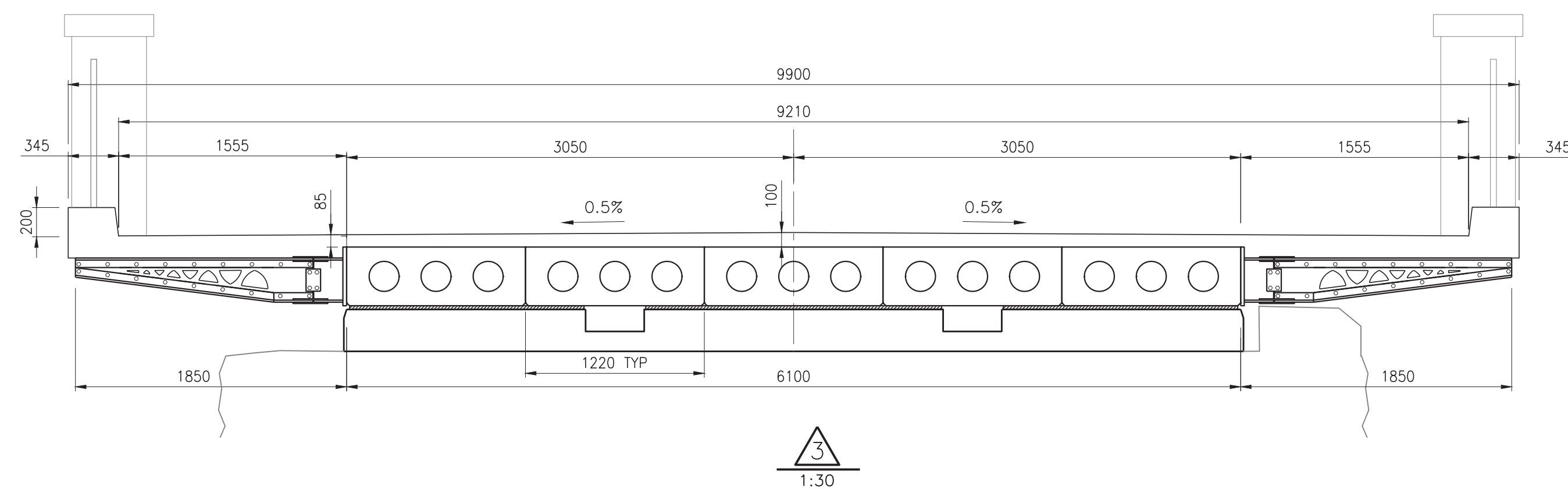
- S-01 GENERAL ARRANGEMENT
- S-02 PIERS AND ABUTMENTS
- S-03 PRECAST CONCRETE SLABS
- S-04 DECK LAYOUT AND REINFORCEMENT
- S-05 STRUCTURAL DETAILS AT PIER 2
- S-06 MASONRY SUPPORT FRAMING

LIST OF ABBREVIATIONS

- WP - DENOTES WORK POINT
- T/D - DENOTES TOP OF DECK
- T/P - DENOTES TOP OF PAVEMENT
- ABUT - DENOTES ABUTMENT
- BRGS - DENOTES BEARINGS
- CJ - DENOTES CONSTRUCTION JOINT
- CONC - DENOTES CONCRETE
- FIX - DENOTES FIXED BEARINGS
- EXP - DENOTES EXPANSION BEARINGS
- TYP - DENOTES TYPICAL
- EXIST - DENOTES EXISTING
- EL. - DENOTES ELEVATION
- MIN - DENOTES MINIMUM
- O.F. - DENOTES OUTSIDE FACE
- I.F. - DENOTES INSIDE FACE
- E.F. - DENOTES EACH FACE



2
1:30



3
1:30

GENERAL NOTES

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6-14).
2. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CANADIAN HIGHWAY BRIDGE DESIGN CODE AND THE ONTARIO BUILDING CODE.
3. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT ANY DISCREPANCIES. DO NOT SCALE THESE DRAWINGS. CONFIRM DIMENSIONS OF EXISTING PIER AND ABUTMENTS PRIOR TO START OF FABRICATION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SAFEGUARD ALL EXISTING STRUCTURES AFFECTED BY THIS CONSTRUCTION.
5. MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION STRESSES, WEATHER PROTECTION AND FOR SUFFICIENT TEMPORARY BRACING AND SHORING TO KEEP THE STRUCTURE PLUMB AND LEVEL DURING ALL PHASES OF THE WORK.
6. WHERE REFERENCE IS MADE TO A CSA OR ASTM STANDARD, THE LATEST EDITION IS IMPLIED, INCLUDING ALL UPDATES, SUPPLEMENTS AND ADDENDUMS.

LOADING

1. UNIFORMLY DISTRIBUTED LIVE LOAD = 4.0 kPa
2. WIND LOAD: $q_w = 0.36$ kPa
3. SNOW LOAD: $S_s = 2.2$ kPa
 $S_r = 0.4$ kPa
4. MAINTENANCE VEHICLE LOAD: 80 kN CVW
24 kN FRONT AXLE
56 kN REAR AXLE
2000 mm WHEEL BASE
1600 mm AXLE WIDTH
28 kN (250mmx150mm FOOTPRINT)
4.6 kPa

CONCRETE

1. ALL CONCRETE PRODUCTION AND PLACEMENT TO CONFORM TO CSA STANDARD CAN/CSA - A23.1-14/A23.2-14.
2. CLASS OF CONCRETE SHALL BE AS FOLLOWS:
PRECAST = 50 MPa
REMAINDER UNLESS NOTED OTHERWISE = 30 MPa
3. CLEAR COVER TO REINFORCING STEEL SHALL BE 70±20 mm UNLESS NOTED OTHERWISE
4. CHAMFER ALL EXPOSED CORNERS OF CONCRETE.

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA STANDARD G30.15, GRADE 400W UNLESS OTHERWISE SPECIFIED.
- BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
- STAINLESS STEEL REINFORCING BARS SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE MINIMUM YIELD STRENGTH OF 500 MPa.
- UNLESS SHOWN OTHERWISE TENSION LAP SPLICES SHALL BE CLASS B.
- BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1 UNLESS INDICATED OTHERWISE.

STRUCTURAL STEEL

1. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO CAN/CSA STANDARDS S6-14 AND S16-14.
2. ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH CSA STANDARD G40.21M, GRADE 350W FOR ROLLED SHAPES, GRADE 350W CLASS C FOR HSS SECTIONS, AND GRADE 350W FOR PLATE, CHANNELS, AND ANGLES UNLESS NOTED OTHERWISE.
3. BOLTS TO BE GALVANIZED ASTM A325. BOLT THREADS TO BE EXCLUDED FROM THE SHEAR PLANE.
4. ALL WELDING IS TO CONFORM TO CSA STANDARD W59.1 AND IS TO BE UNDERTAKEN BY A FABRICATOR QUALIFIED IN ACCORDANCE WITH CSA STANDARD W47.1. THE CONTRACTOR IS ADVISED TO REMOVE GALVANIZING FOR THE AREAS REQUIRING FIELD WELDING PRIOR TO START OF WELDING OPERATIONS.
5. INSPECTION IS REQUIRED FOR ALL WELDS.
6. GALVANIZE ALL STEEL COMPONENTS. GALVANIZING TO CONFORM TO CSA STANDARD G164, MINIMUM COATING OF 600 g/m².
7. TOUCH UP ALL GALVANIZING WITH TWO COATS OF GALVAFROID OR APPROVED EQUAL. TAKE CARE TO ENSURE ALL GALVANIZING AT FIELD WELDING IS FULLY RESTORED.

REV.	DATE	DESCRIPTION	D.H.	BY
0	17 MAY 2018	ISSUED FOR CONSTRUCTION		

CONSULTANT: **BROWN | CO**

PREPARED FOR: **BTE**

VICTORIA STREET PEDESTRIAN BRIDGE - ELORA, ONTARIO
GENERAL ARRANGEMENT

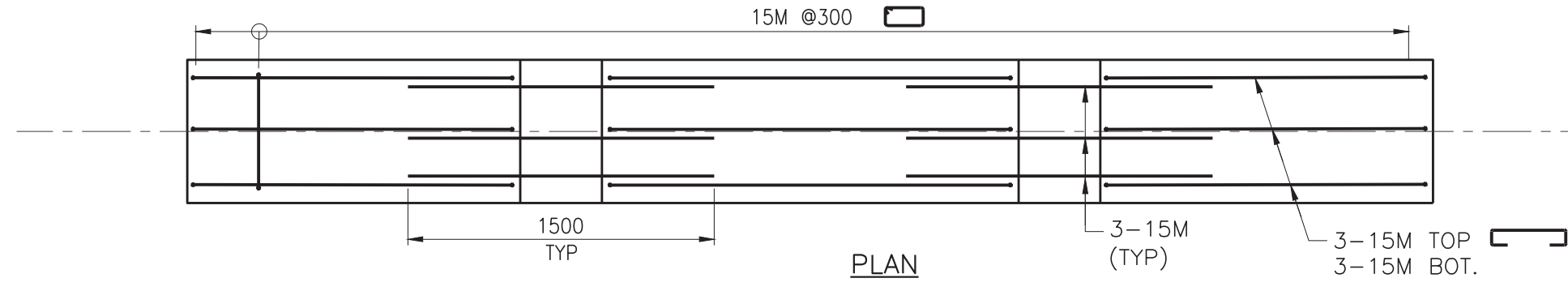
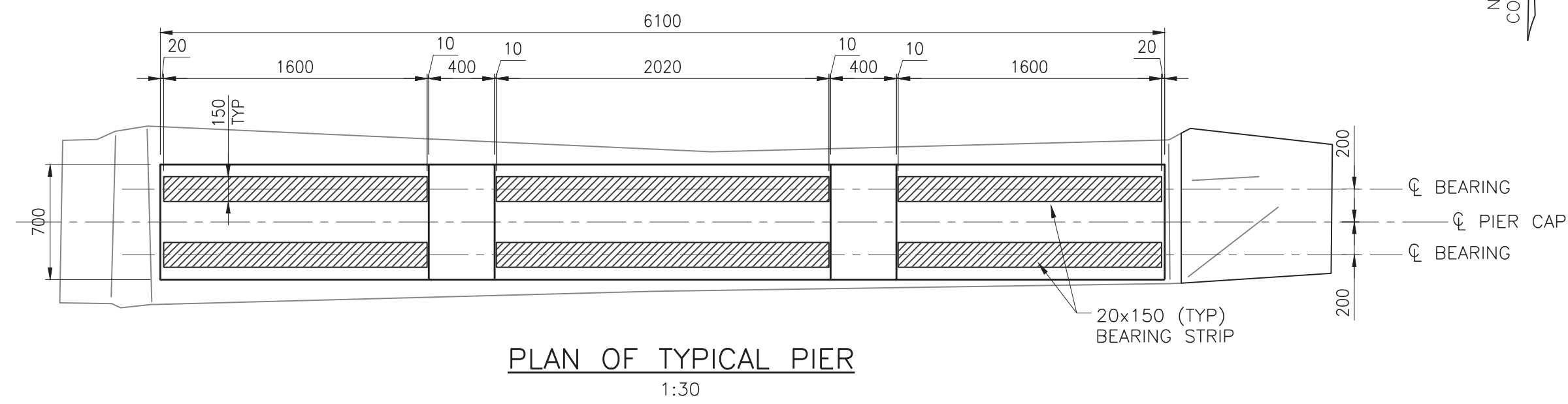
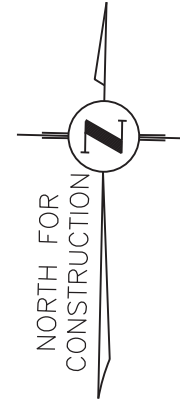
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CHK	S.B.	JANUARY2018	SCALE AS INDICATED			



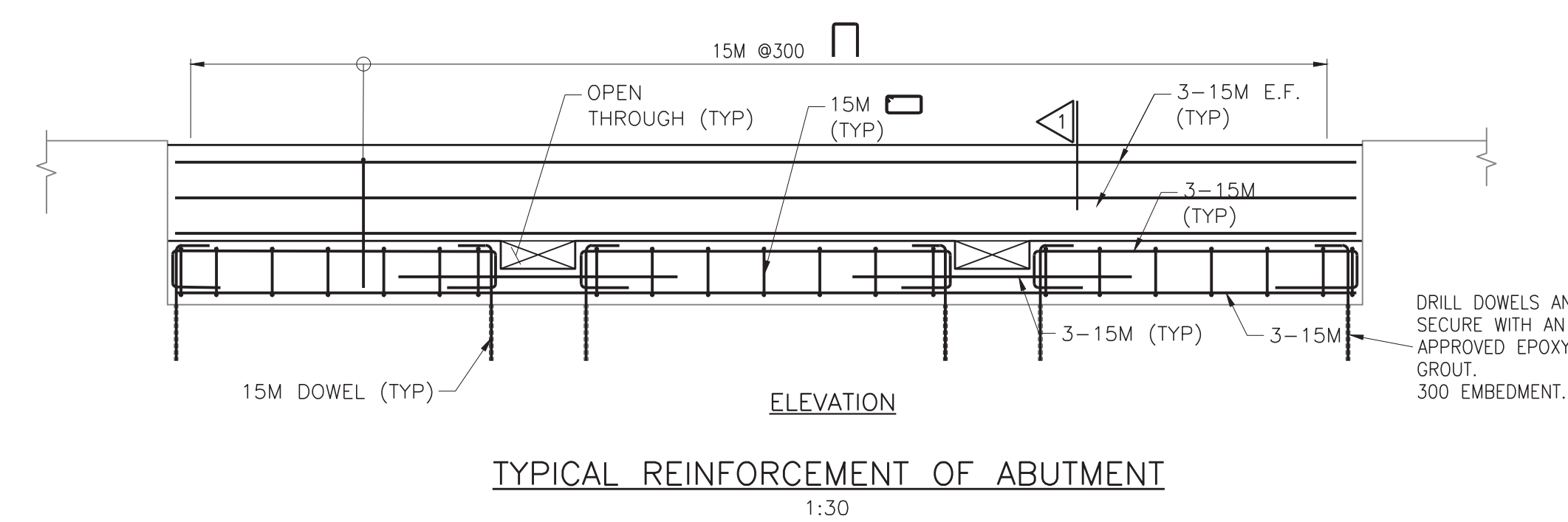
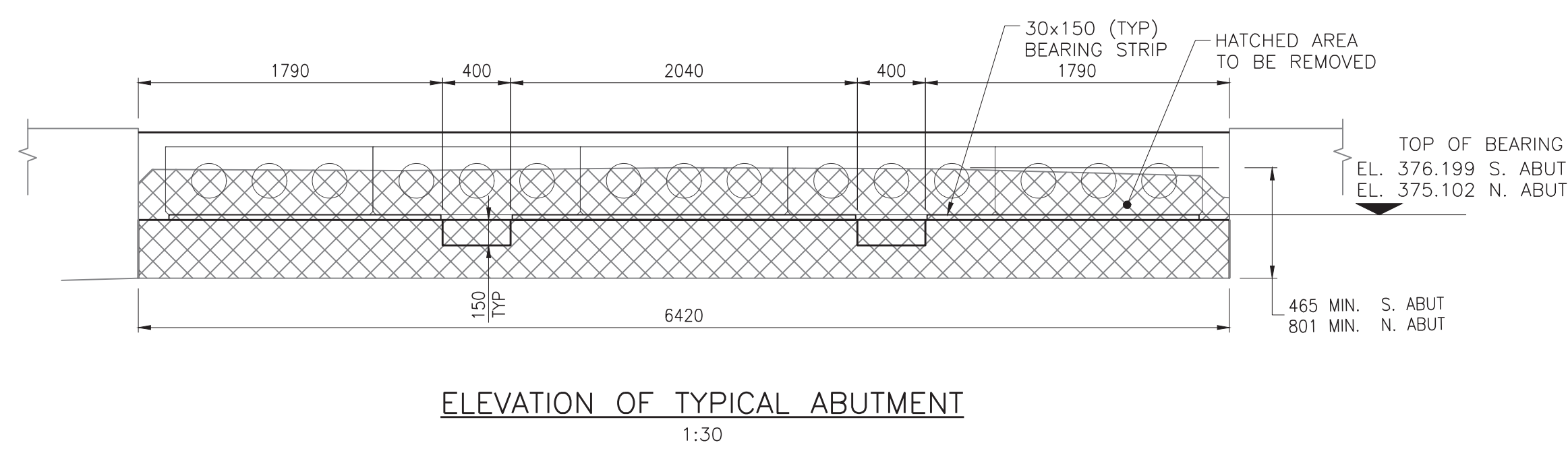
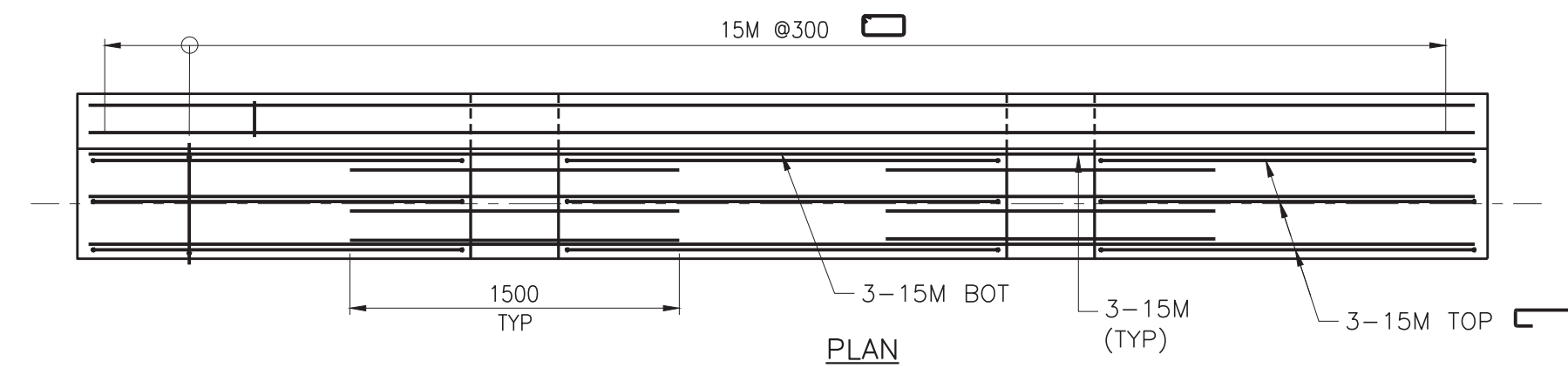
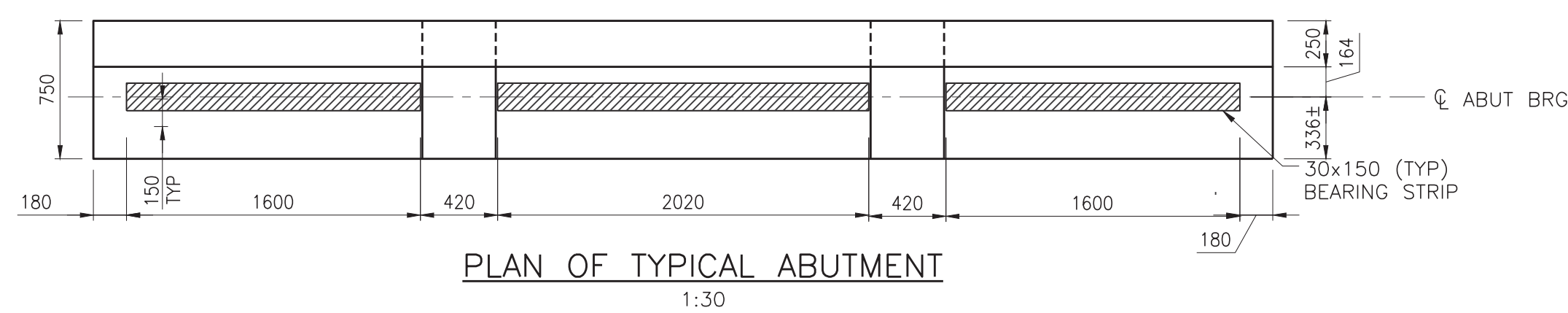
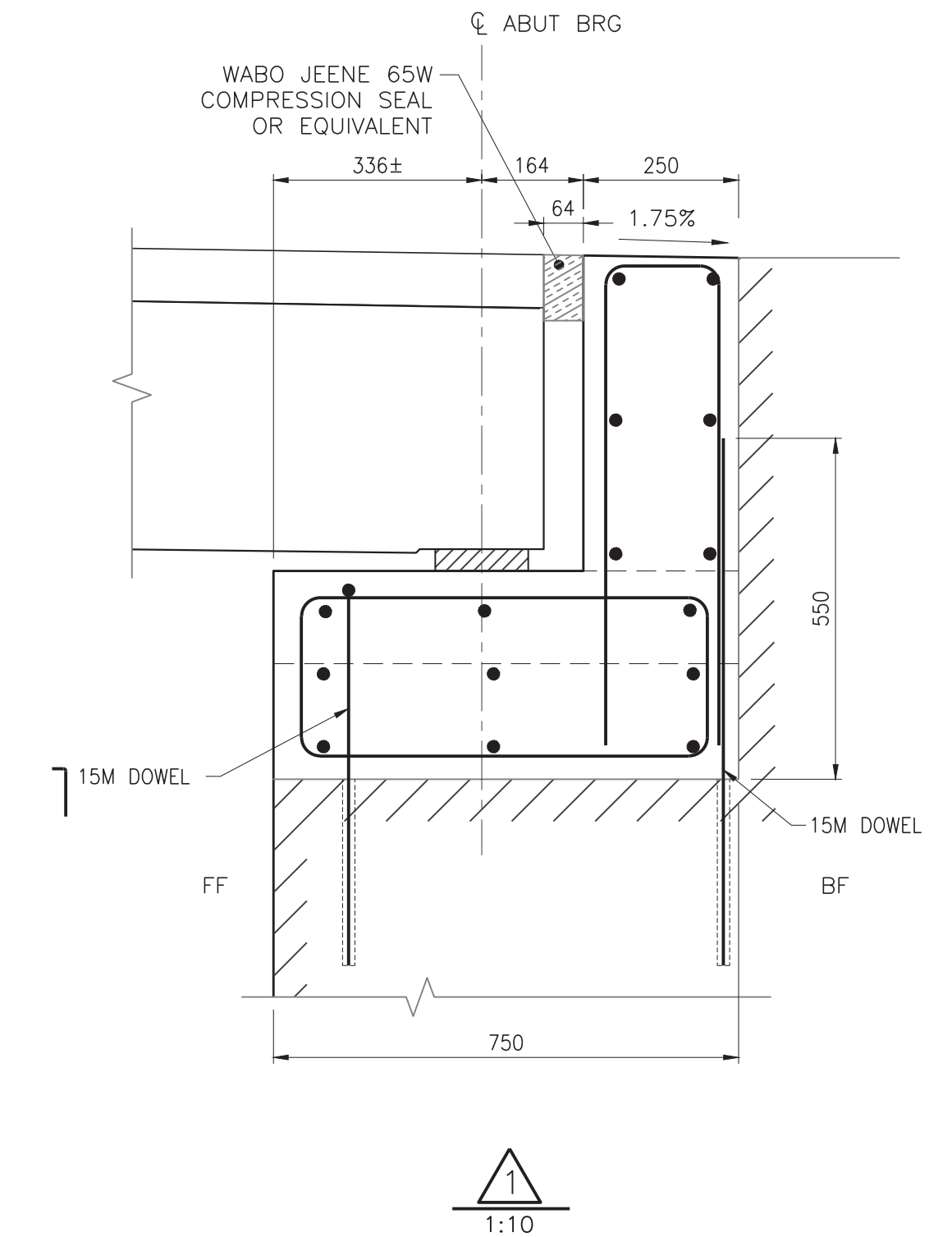
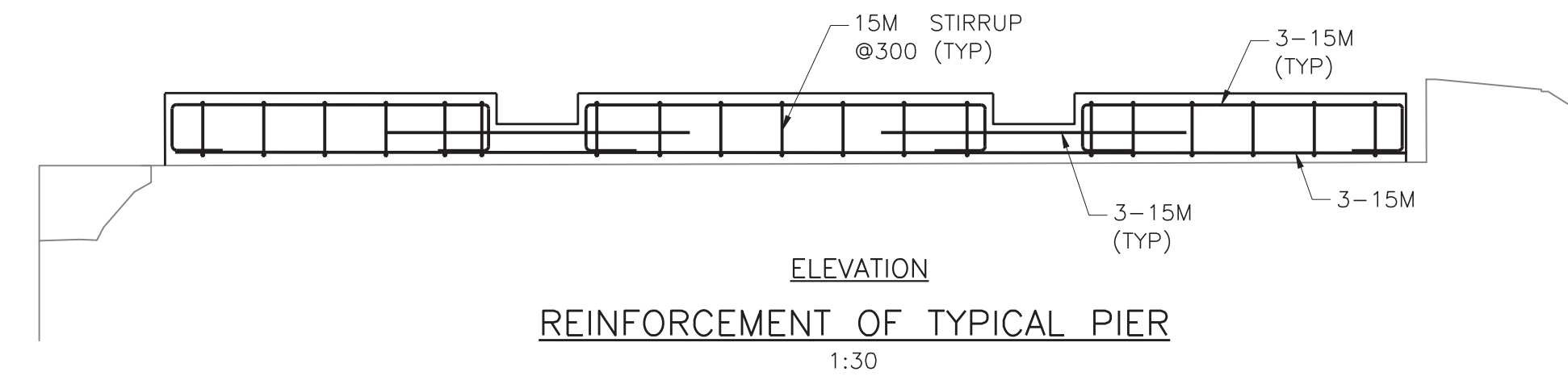
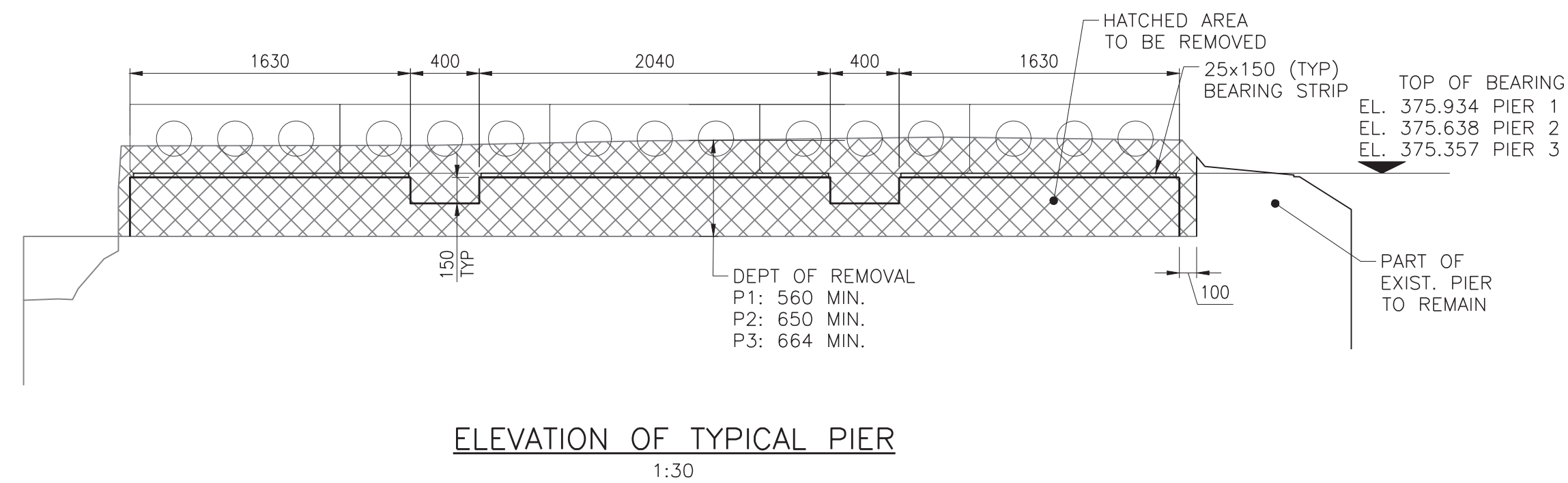
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NOTE:
ALL DIMENSION SHOWN ARE IN METRES AND/OR MILLIMETRES UNLESS NOTED OTHERWISE.



BEARING DATA					
	SOUTH ABUTMENT	PIER 1	PIER 2	PIER 3	NORTH ABUTMENT
DEAD LOAD (kN/m)	111	119	130	114	109
TOTAL LOAD (kN/m)	147	169	186	159	143
LATERAL LOAD (kN/m)	6	8	8	8	6
MOVEMENT (mm)	22	12	0	12	22
BEARING HEIGHT (mm)	30	25	25	25	30
BEARING TYPE	FIBER REINFORCED ELASTOMERIC				



REV.	DATE	DESCRIPTION	D.H.	BY
0	17 MAY 2018	ISSUED FOR CONSTRUCTION		

CONSULTANT: **BROWN | CO**

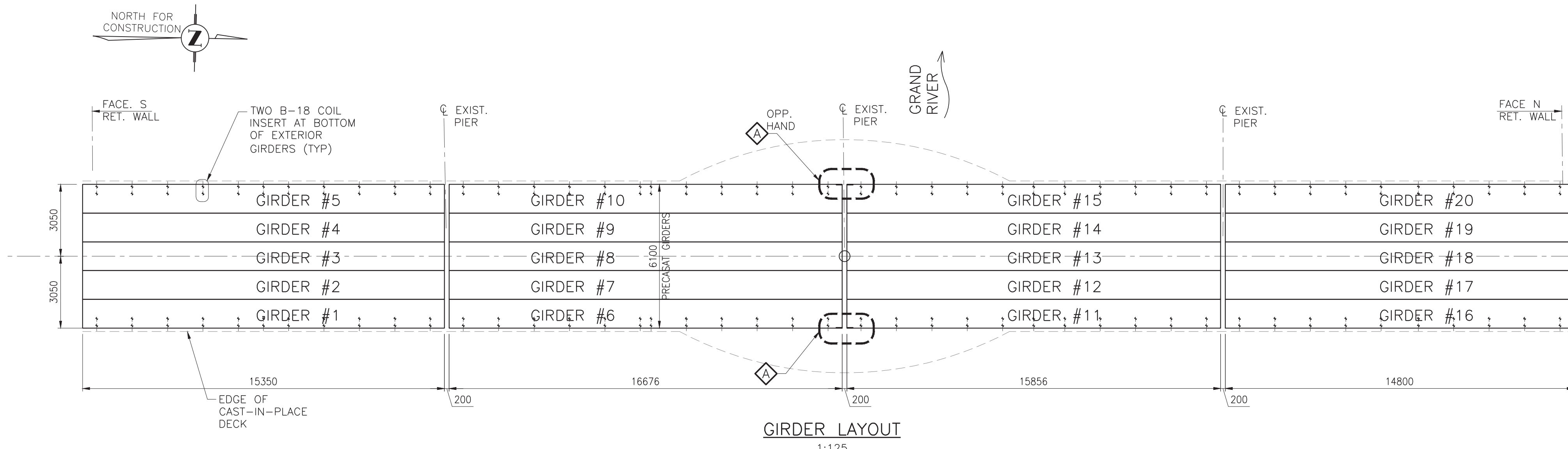
PREPARED FOR: **BT ENGINEERING BIE**

**VICTORIA STREET PEDESTRIAN BRIDGE - ELORA, ONTARIO
PIERS AND ABUTMENTS**

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CHK	S.B.	FEB. 2018	SCALE AS INDICATED			

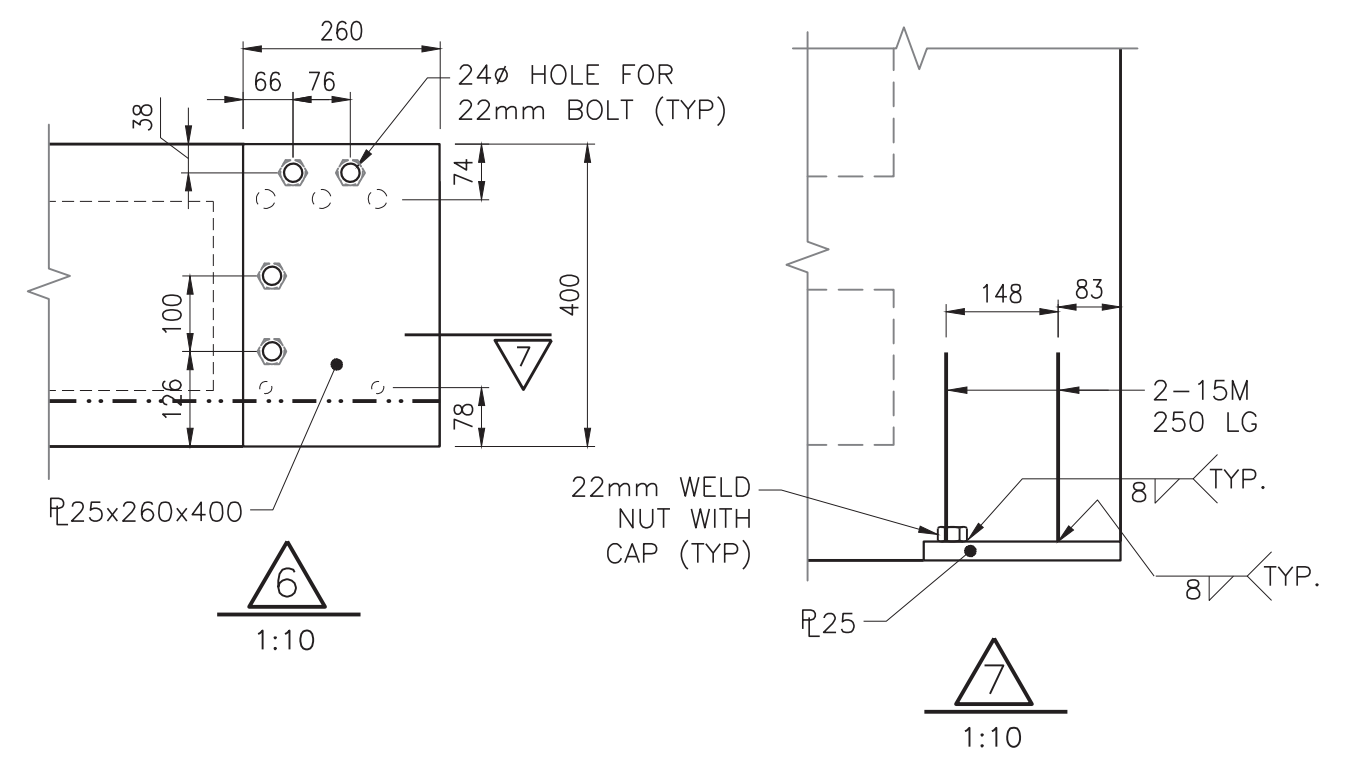
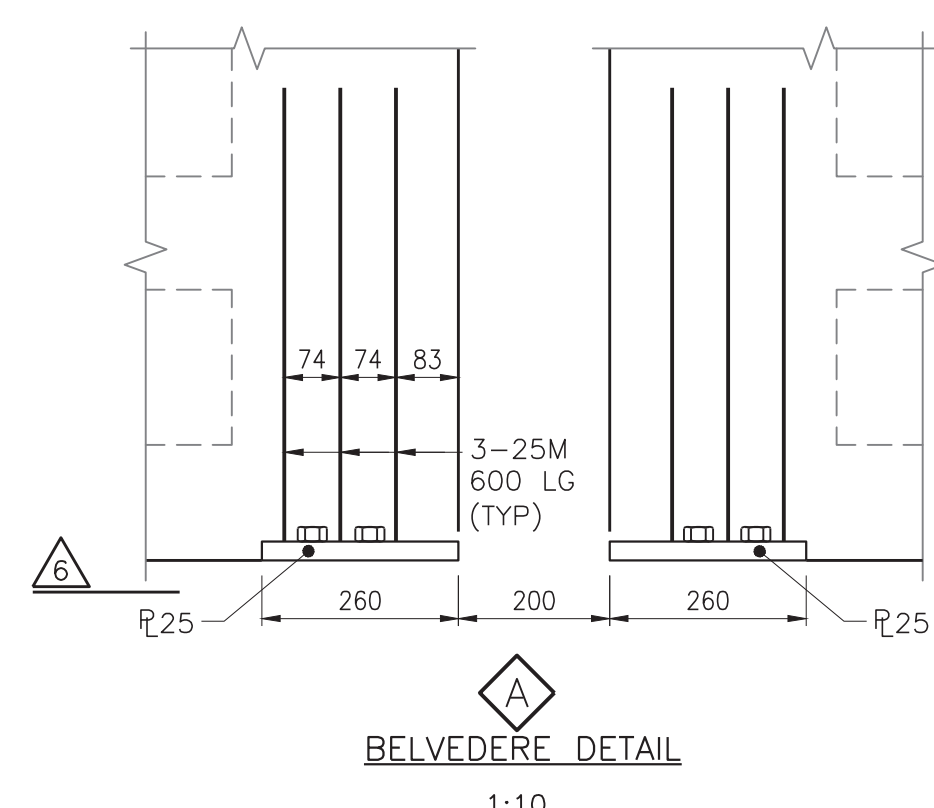
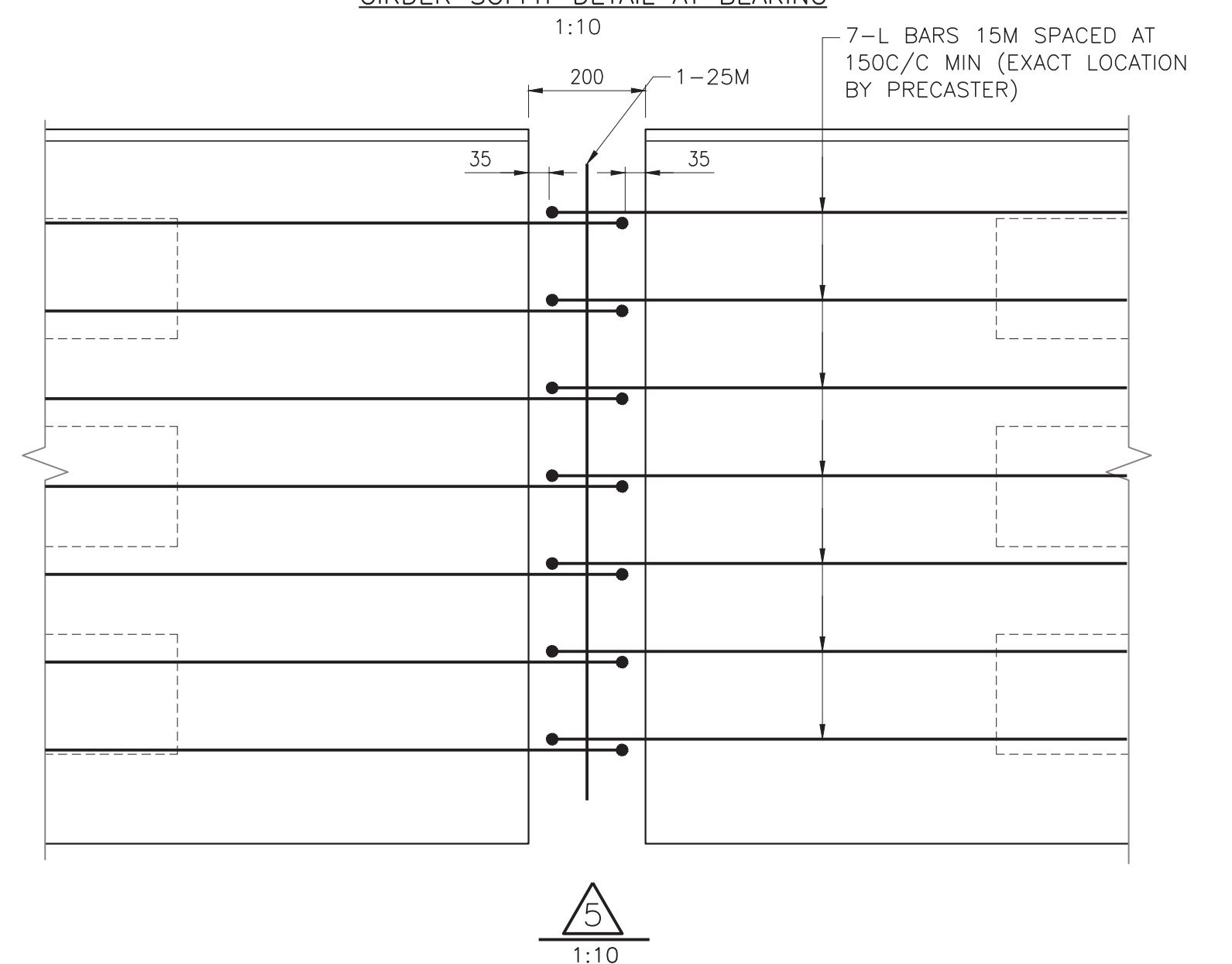
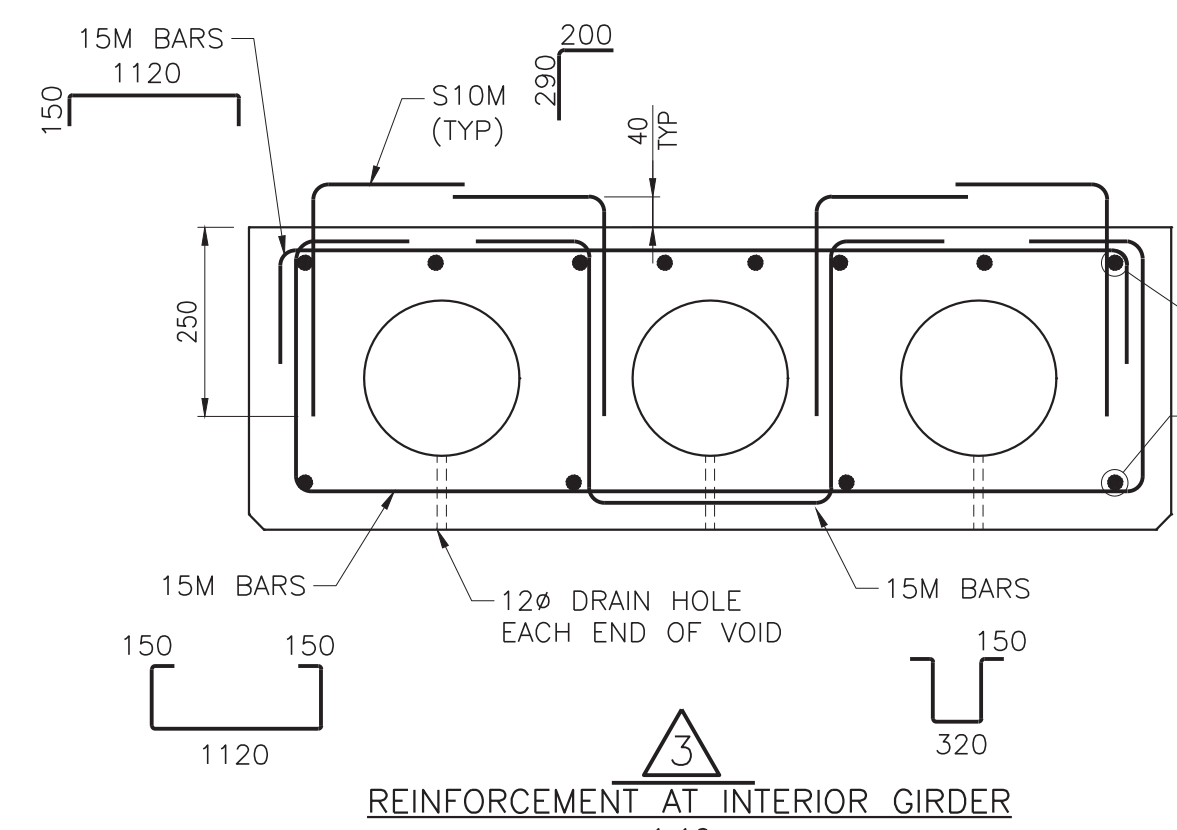
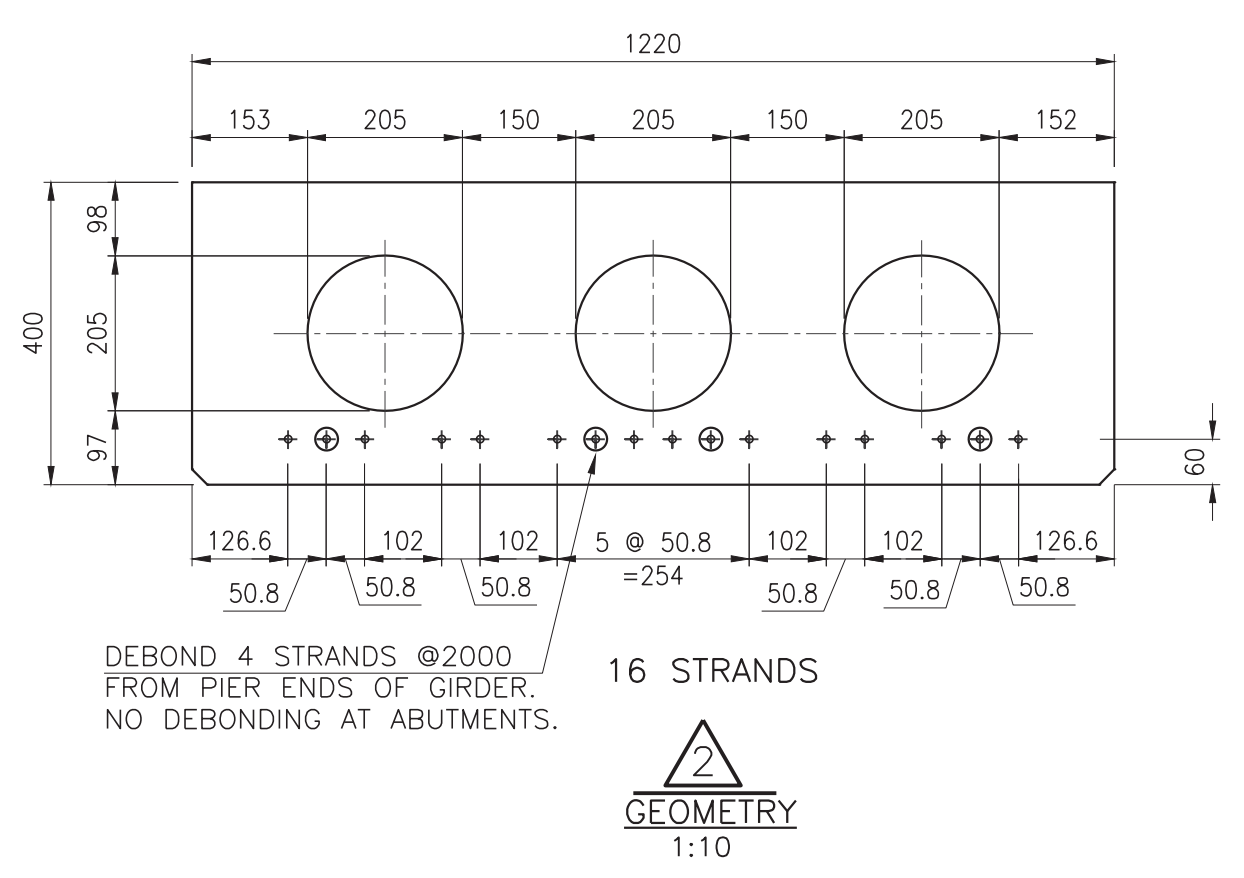
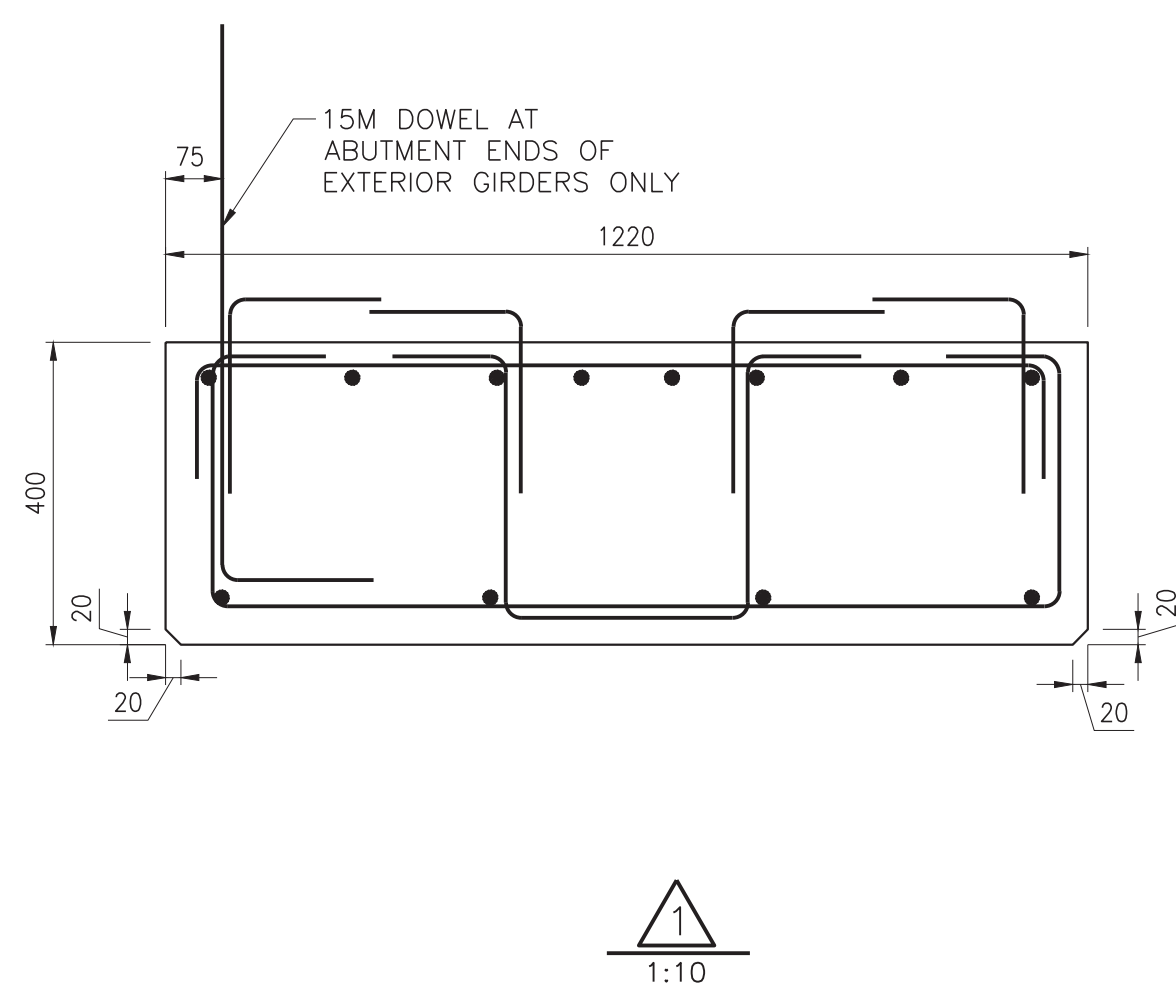
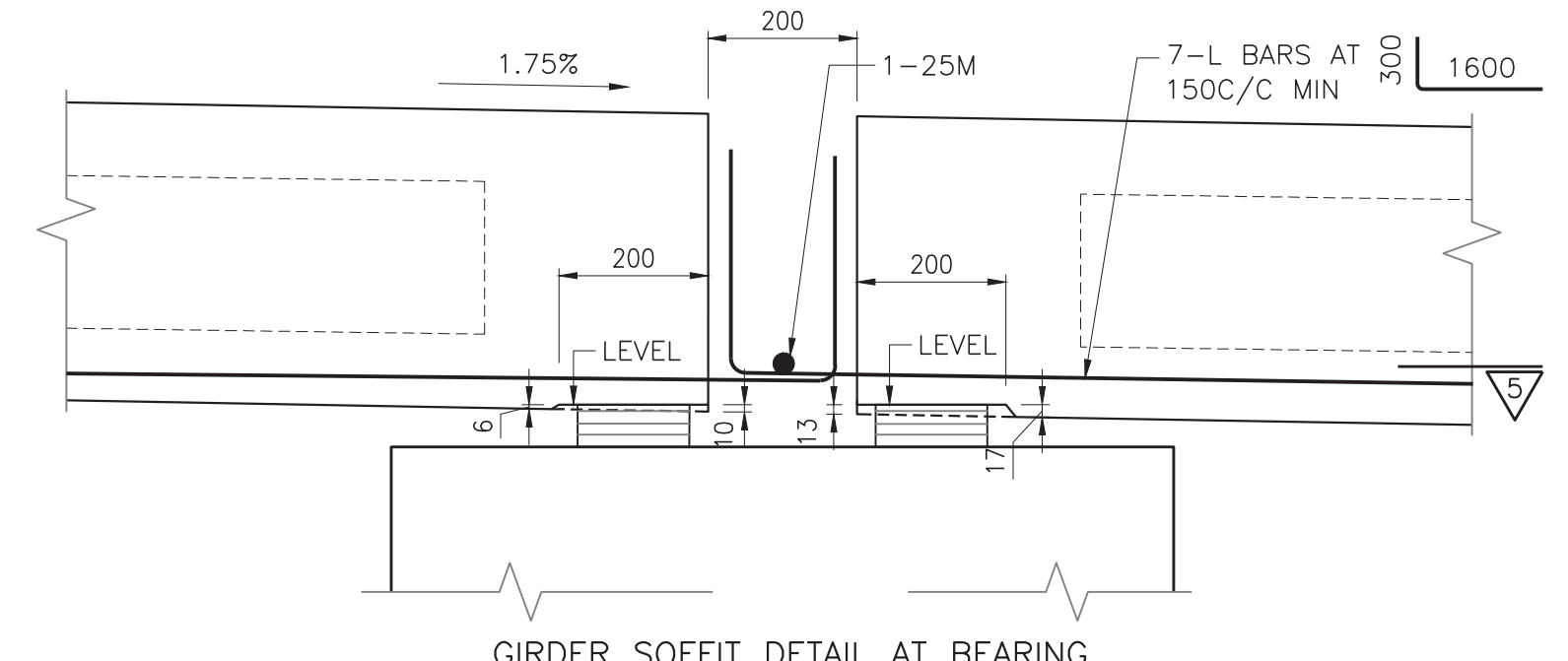
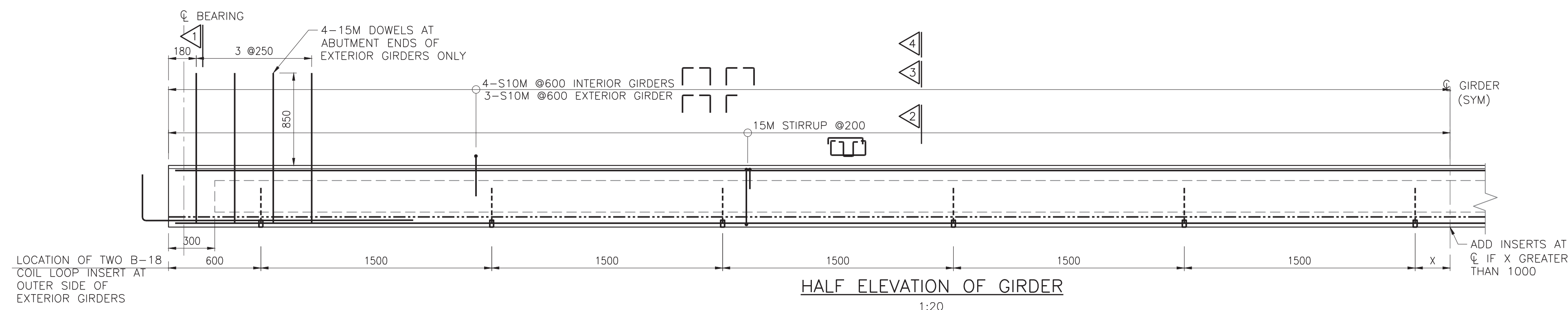
DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

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GIRDER GEOMETRY	
GIRDER	L
#1 to #5	15350
#6 to #10	16676
#11 to #15	15856
#16 to #20	14800

- NOTES:**
- PRESTRESSING STEEL SHALL BE LOW-RELAXATION SEVEN WIRE STRANDS, SIZE DESIGNATION 13, GRADE 1860.
 - MINIMUM BREAKING STRENGTH OF STRAND 184 kN.
 - JACKING FORCE PER STRAND 138 kN.
 - FORCE PER STRAND AFTER ALL LOSSES 110 kN.
 - THE ELAPSED TIME INTERVAL BETWEEN JACKING OF STRANDS AND TRANSFER SHALL NOT BE LESS THAN 15 HOURS.
 - CLASS OF CONCRETE:
PRECAST GIRDER 50MPa
CONCRETE STRENGTH AT TRANSFER 32MPa.
 - REINFORCING STEEL SHALL BE ACCORDING TO CAN/CSA-G30.18-09, GRADE 400W.
 - STAINLESS STEEL BARS SHALL BE TYPE 316 LN OF DUPLEX 2205 WITH A MINIMUM YIELD STRENGTH OF 500MPa.
 - CLEAR COVER TO REINFORCING STEEL:
SOFFIT OF BOTTOM SLAB (EXCEPT UNDERCUT) 38 +15mm/-5mm
UNDERCUT AND ELSEWHERE 20 +15mm/-5mm
 - ALL STIRRUPS, DOWELS INTO DECK AND BURSTING/SPLITTING REINFORCEMENT WITHIN 1000mm FROM THE GIRDER END AT ABUTMENTS SHALL BE STAINLESS.
 - THE TOP OF PRECAST BEAM SHALL BE GIVEN ROUGH FINISH OF ABOUT 5mm AMPLITUDE ACROSS THE WIDTH.
 - STEEL PLATES AND ANGLES SHALL BE ACCORDING TO CSA/CSA G40.20-04/G40.21-04, GRADE 300W.
 - STEEL PLATES AND ANGLES SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
 - AT ABUTMENT ENDS OF GIRDERS STRAND ENDS SHALL BE RECESSED AND GROUTED, AND GIRDERS AND FACE SHALL BE PAINTED WITH TWO COATS OF ASPHALTIC PAINT.
 - ALL WELDING IS TO BE COMPLETED IN ACCORDANCE WITH CAN/CSA W59M AND IS TO BE UNDERTAKEN BY A FABRICATOR QUALIFIED IN ACCORDANCE WITH CAN/CSA W47.1. ALL ELECTRODES TO BE E49XX OR EQUIVALENT.



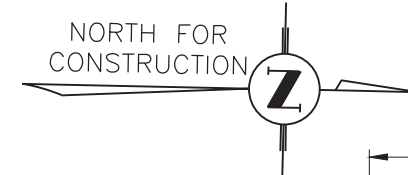
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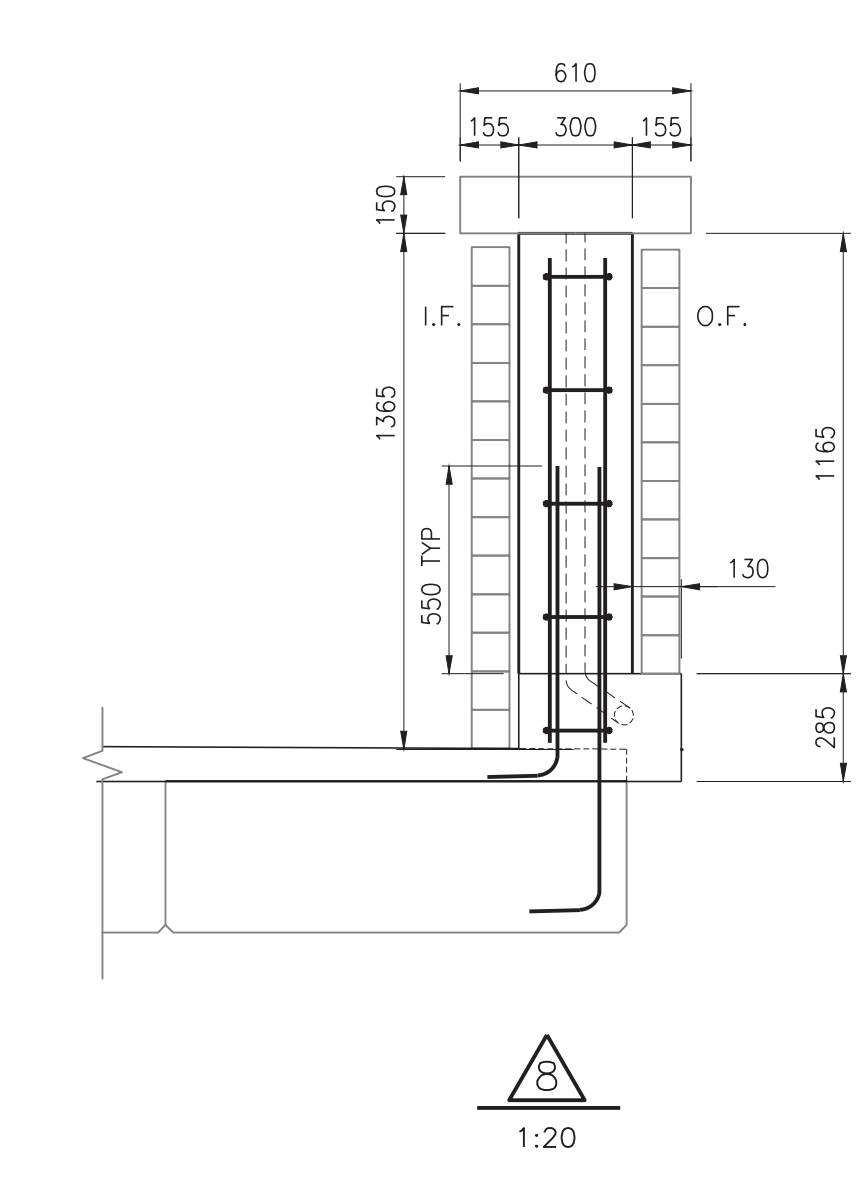
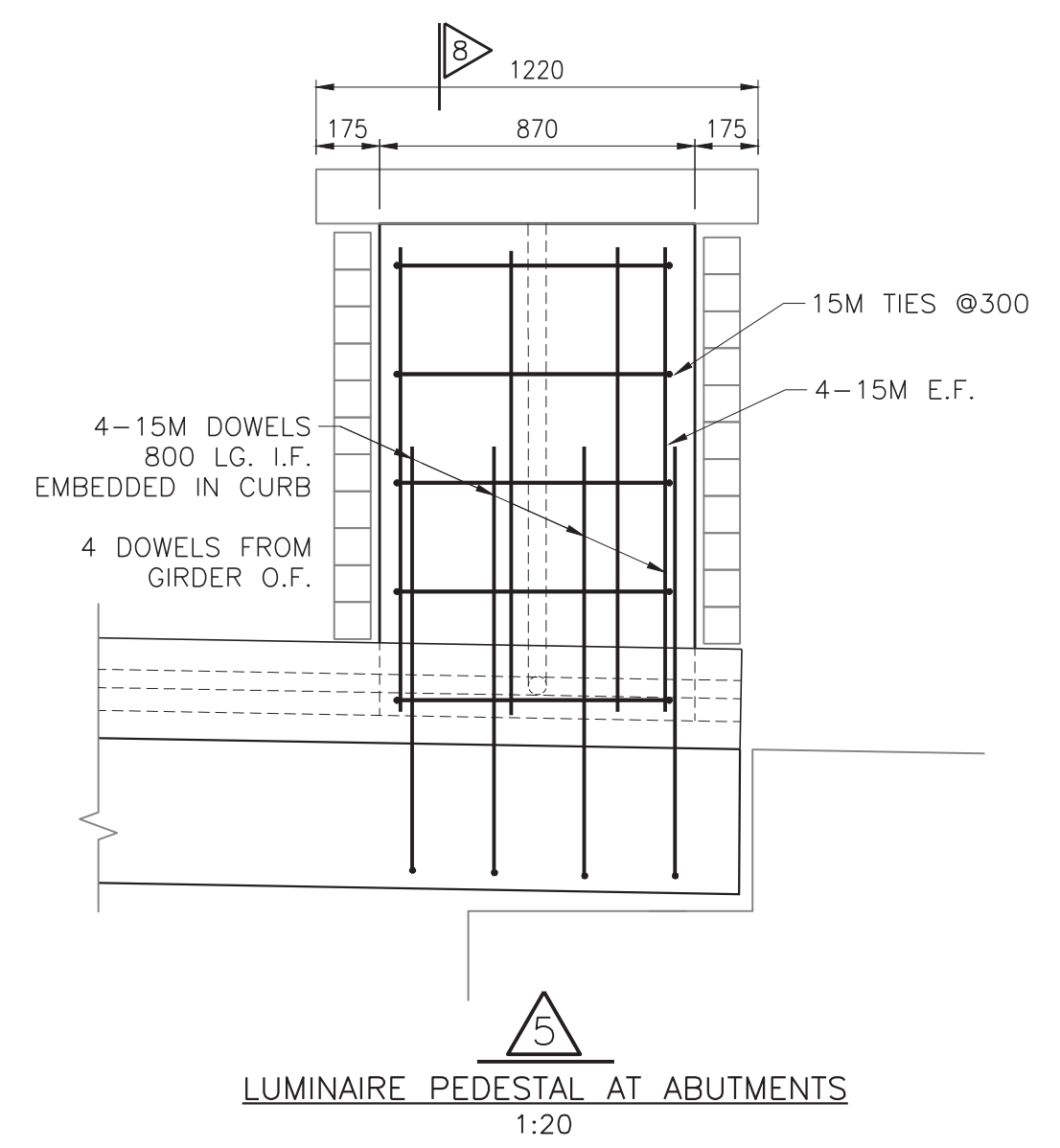
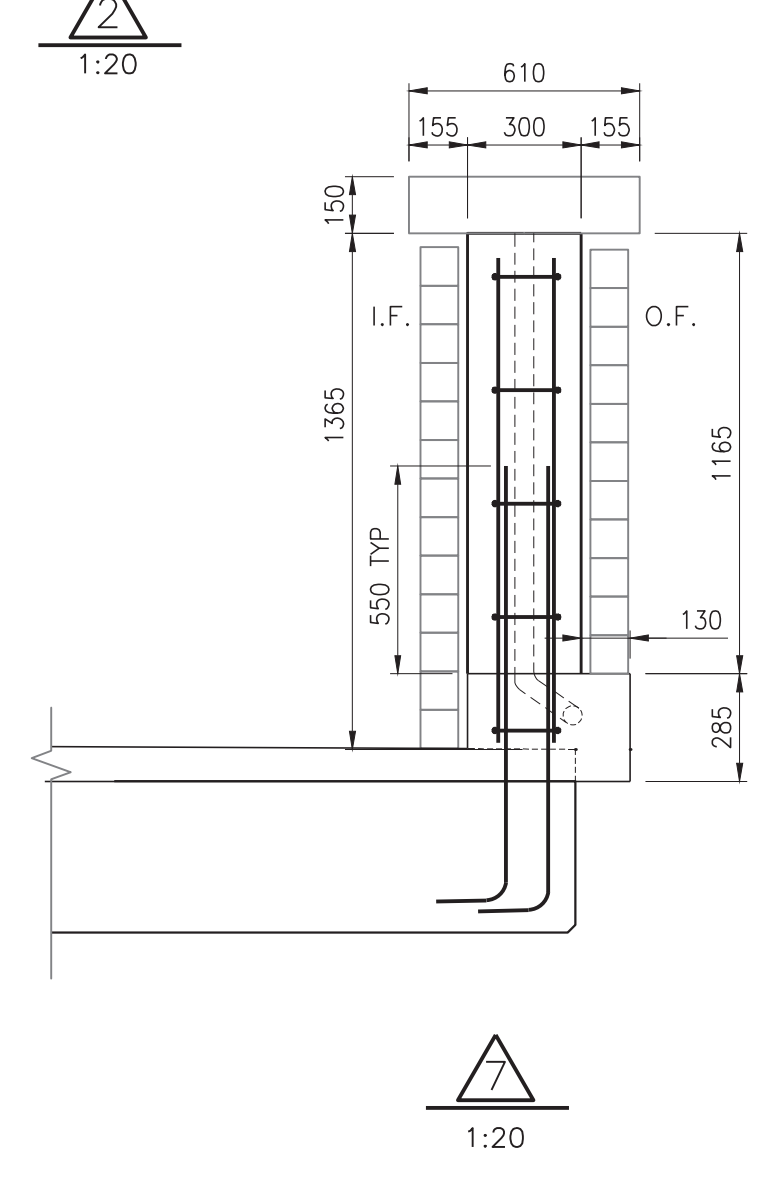
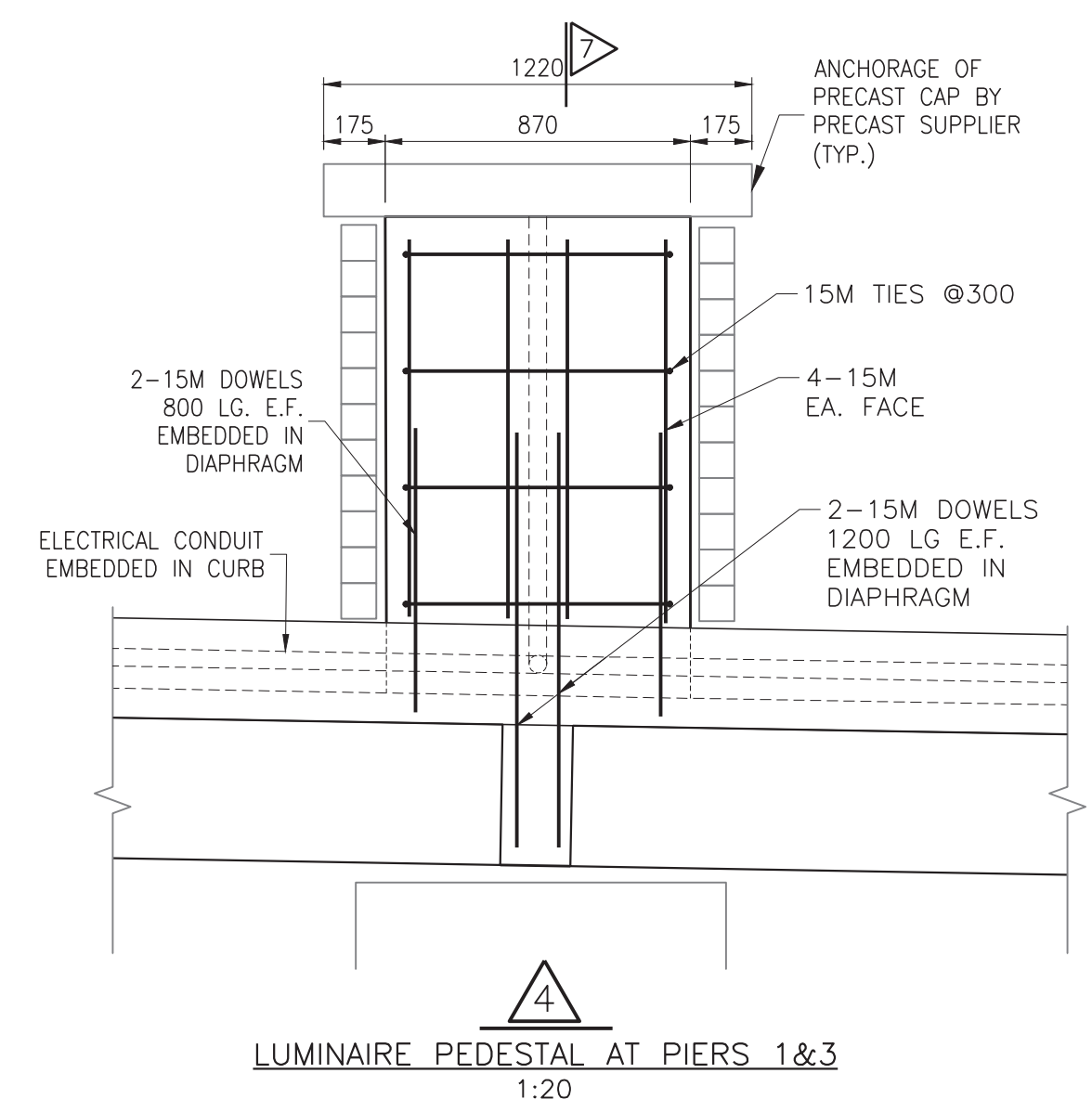
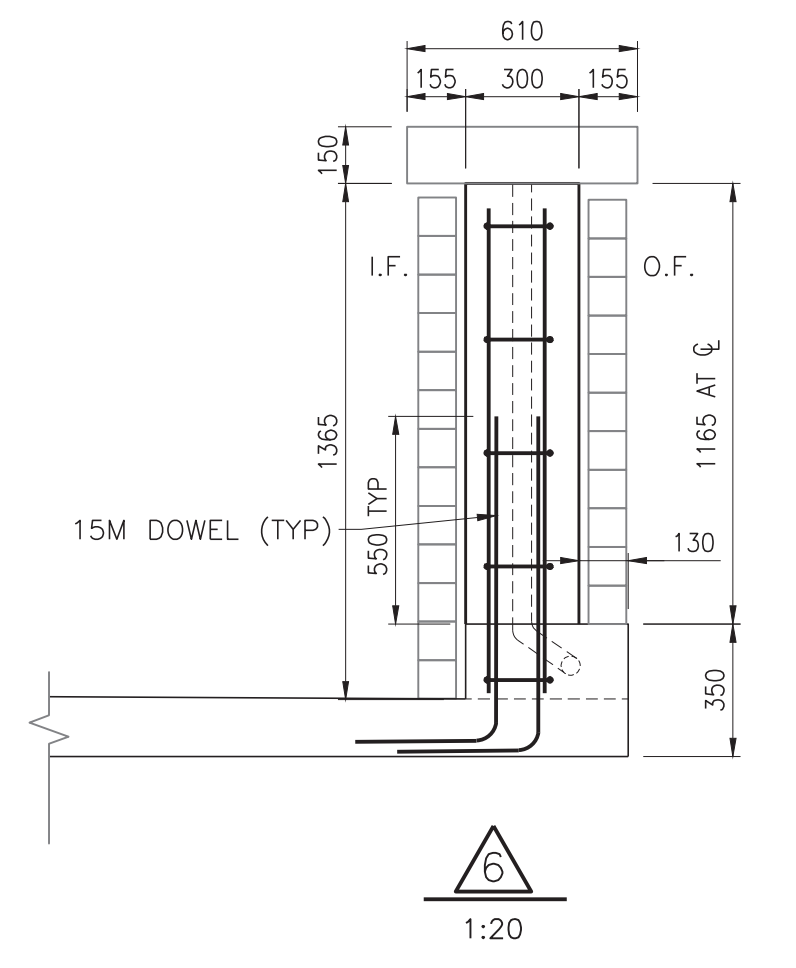
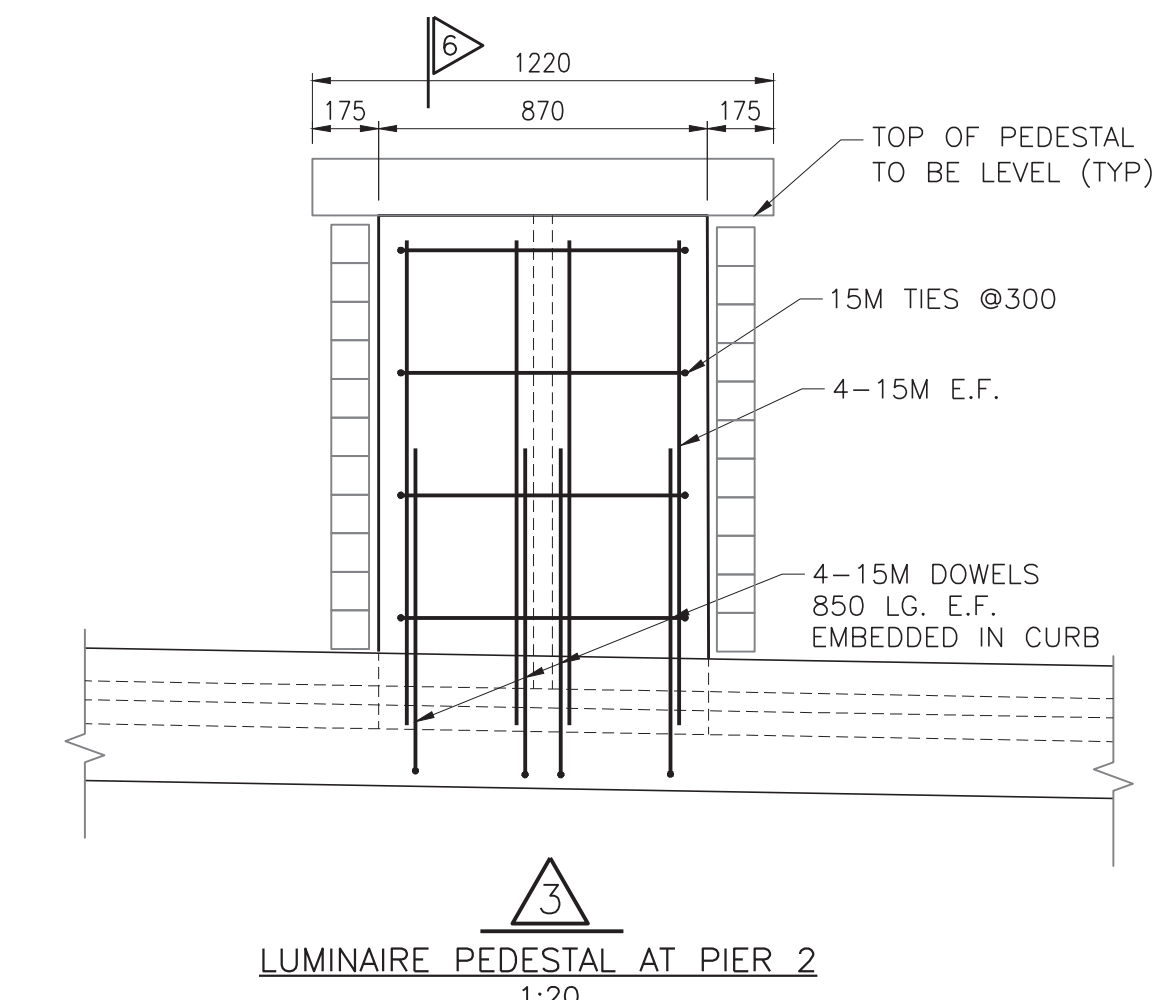
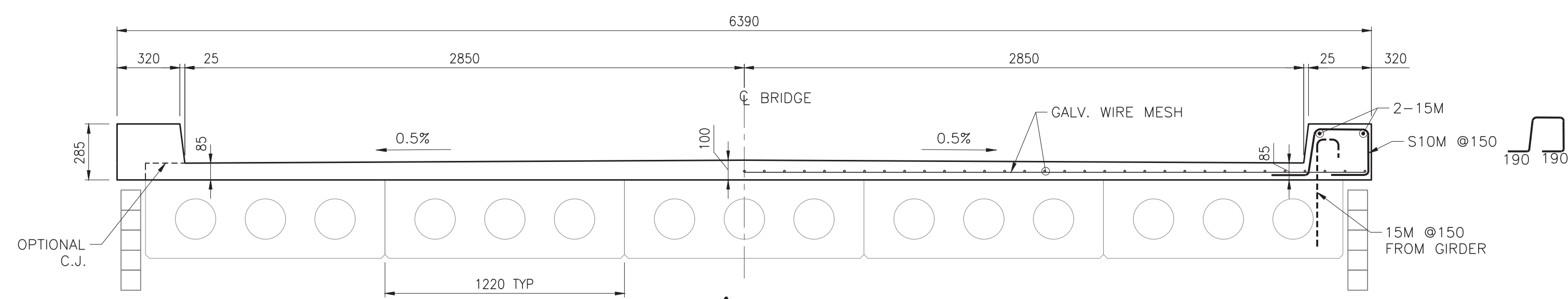
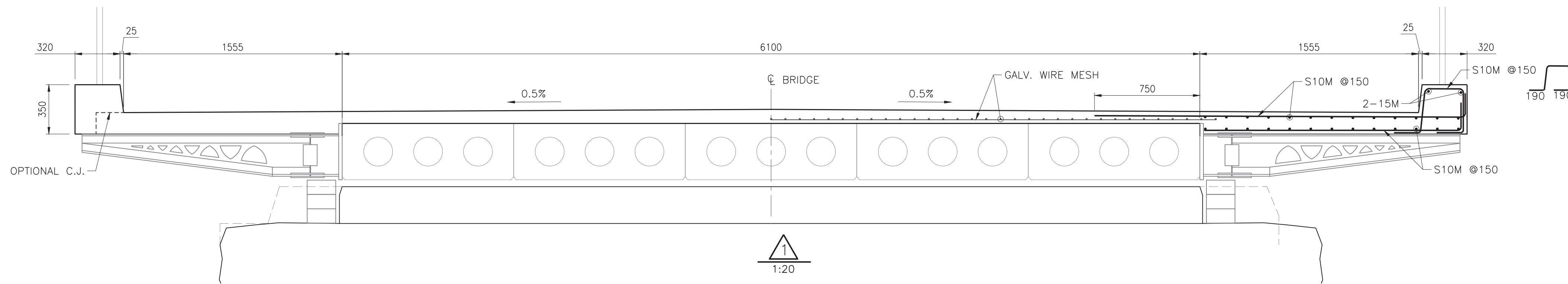
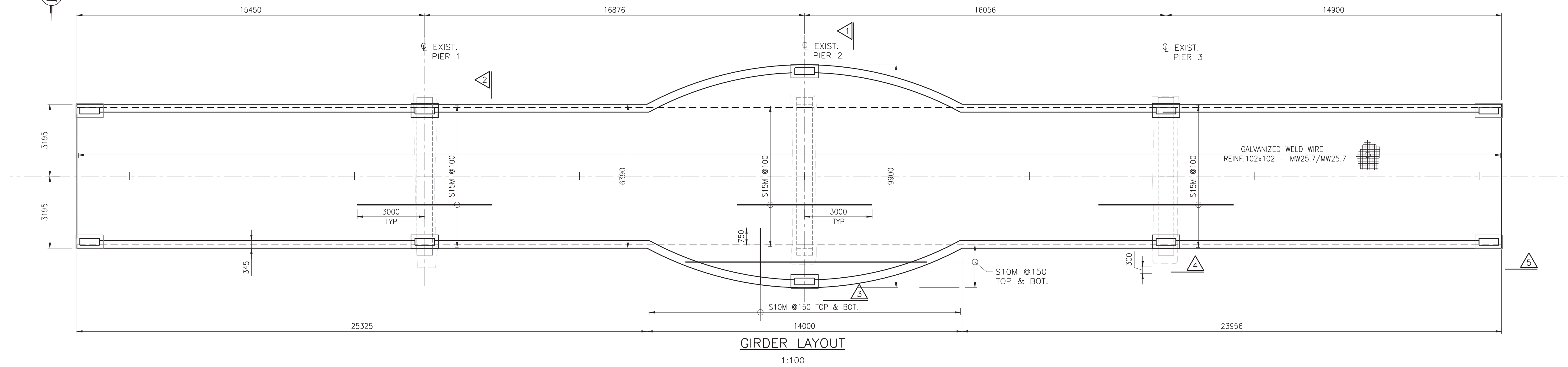
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REV.	DATE	DESCRIPTION	BY	
CONSULTANT: BROWN CO				
PREPARED FOR: BTE				
VICTORIA STREET PEDESTRIAN BRIDGE - ELORA, ONTARIO PRESTRESSED CONCRETE SLABS				
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DRW	B.U.	FEB. 2018	SCALE: AS INDICATED	2017-124
CHK	S.B.	FEB. 2018		DRAWING
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				REV
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DRAWING NOT TO BE SCALED
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NOTE:
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AND/OR MILLIMETRES UNLESS NOTED
OTHERWISE.



DRAWING NOT TO BE SCALED
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REV.	DATE	DESCRIPTION	D.H.	BY
0	17 MAY 2018	ISSUED FOR CONSTRUCTION		

CONSULTANT: **BROWN | CO**

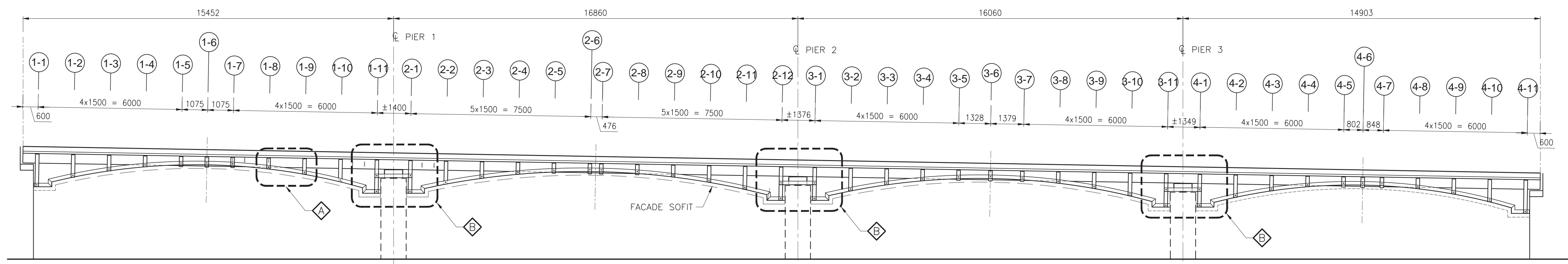
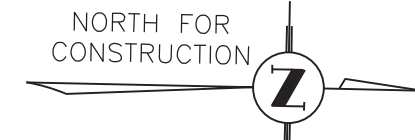
PREPARED FOR: **BT ENGINEERING BIE**

**VICTORIA STREET PEDESTRIAN BRIDGE - ELORA, ONTARIO
DECK LAYOUT AND REINFORCEMENT**

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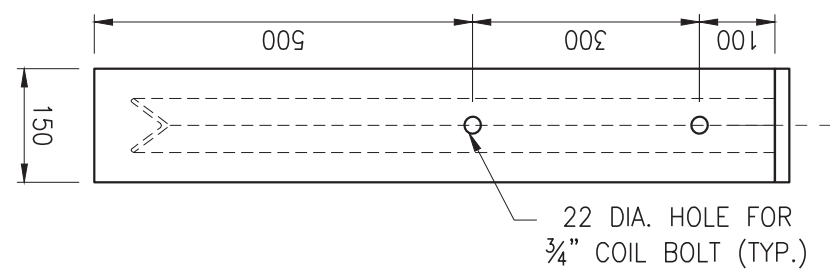
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NOTE:
ALL DIMENSION SHOWN ARE IN METRES
AND/OR MILLIMETRES UNLESS NOTED
OTHERWISE.

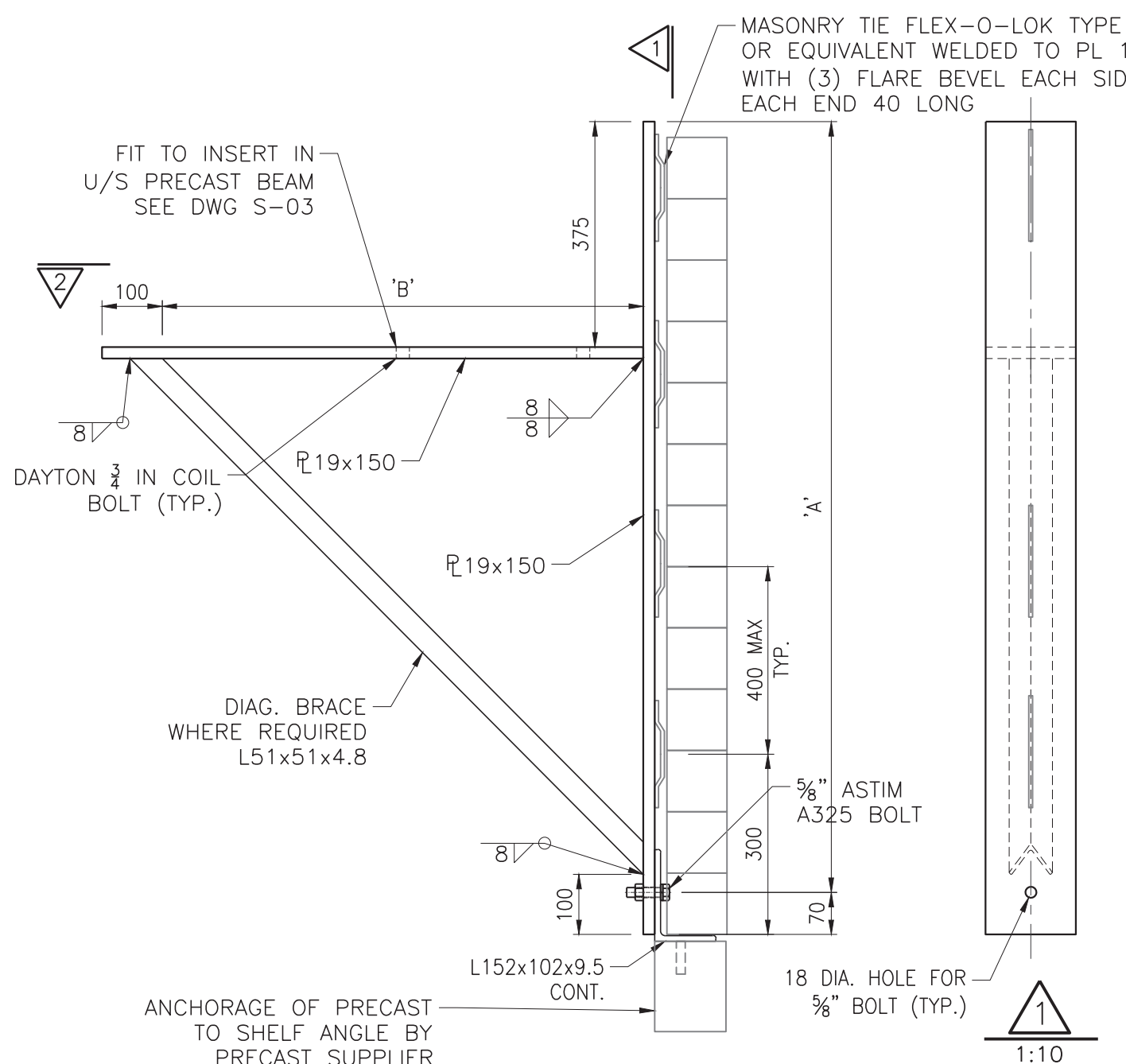


NOTE: MASONRY FACADE NOT SHOWN FOR CLARITY

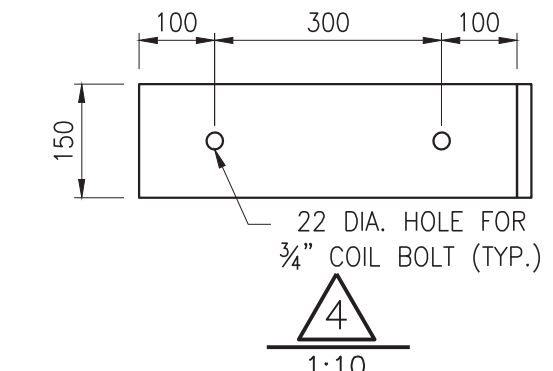
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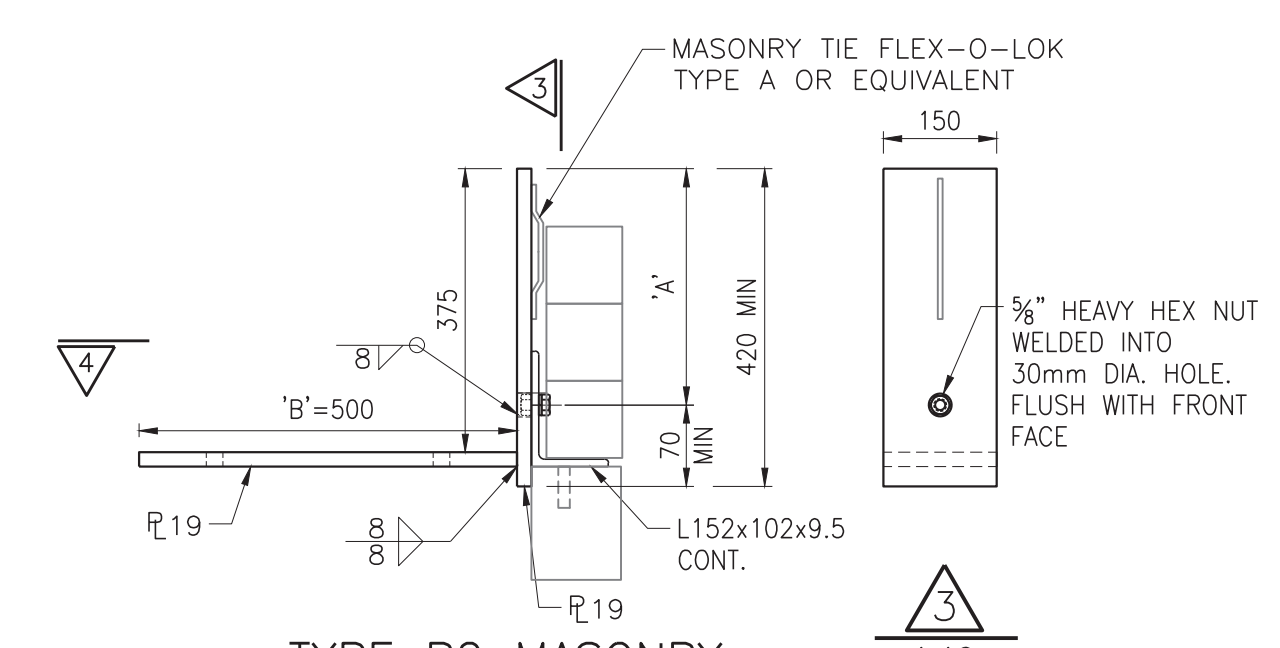
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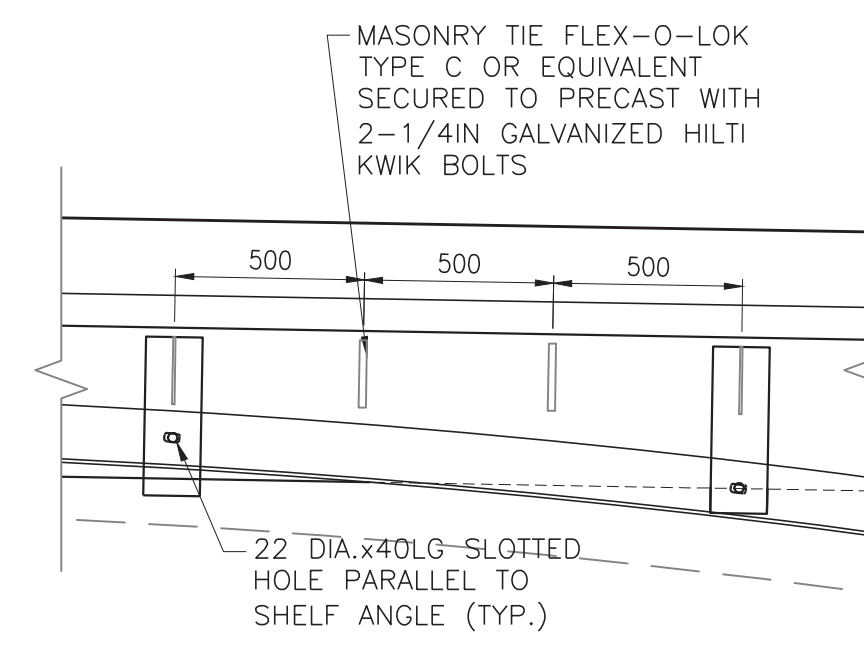
TYPE B1 MASONRY SUPPORT BRACKET
1:10



4
1:10

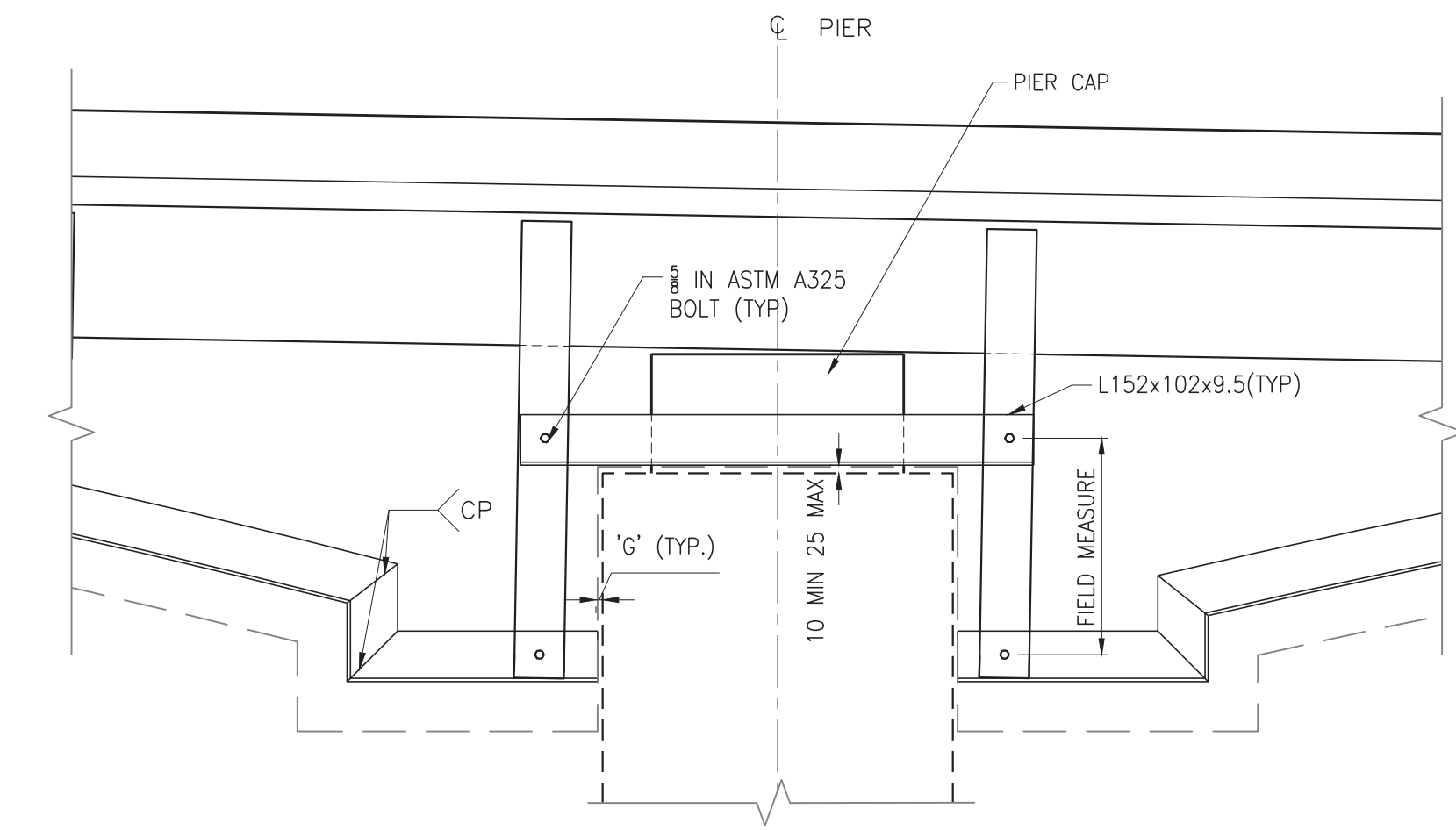


TYPE B2 MASONRY SUPPORT BRACKET
1:10



NOTE: MASONRY FACADE NOT SHOWN FOR CLARITY

TYPICAL FRAMING DETAIL
1:20



NOTE: MASONRY FACADE NOT SHOWN FOR CLARITY

FRAMING AT PIERS
1:20

MASONRY SUPPORT GEOMETRY - SPAN 1				
POSITION #	TYPE	'A' (mm)	'B' (mm)	DIAG. BRACE
1-1	B1	1282	800	YES
1-2	B1	857	500	YES
1-3	B1	570	400	NO
1-4	B2	374	500	NO
1-5	B2	267	500	NO
1-6	B2	244	500	NO
1-7	B2	267	500	NO
1-8	B2	374	500	NO
1-9	B1	570	400	NO
1-10	B1	857	500	YES
1-11	B1	1307	800	YES

MASONRY SUPPORT GEOMETRY - SPAN 2				
POSITION #	TYPE	'A' (mm)	'B' (mm)	DIAG. BRACE
2-1	B1	1282	800	YES
2-2	B1	876	500	YES
2-3	B1	607	400	NO
2-4	B2	413	500	NO
2-5	B2	293	500	NO
2-6	B2	245	500	NO
2-7	B2	245	500	NO
2-8	B2	293	500	NO
2-9	B2	413	500	NO
2-10	B1	607	400	NO
2-11	B1	876	500	YES
2-12	B1	1307	800	YES

MASONRY SUPPORT GEOMETRY - SPAN 3				
POSITION #	TYPE	'A' (mm)	'B' (mm)	DIAG. BRACE
3-1	B1	1282	800	YES
3-2	B1	864	500	YES
3-3	B1	584	400	NO
3-4	B2	389	500	NO
3-5	B2	276	500	NO
3-6	B2	244	500	NO
3-7	B2	276	500	NO
3-8	B2	389	500	NO
3-9	B1	584	400	NO
3-10	B1	864	500	YES
3-11	B1	1307	800	YES

MASONRY SUPPORT GEOMETRY - SPAN 4				
POSITION #	TYPE	'A' (mm)	'B' (mm)	DIAG. BRACE
4-1	B1	1282	800	YES
4-2	B1	850	500	YES
4-3	B1	554	400	NO
4-4	B2	357	500	NO
4-5	B2	258	500	NO
4-6	B2	244	500	NO
4-7	B2	258	500	NO
4-8	B2	357	500	NO
4-9	B1	554	400	NO
4-10	B1	850	500	YES
4-11	B1	1307	800	YES

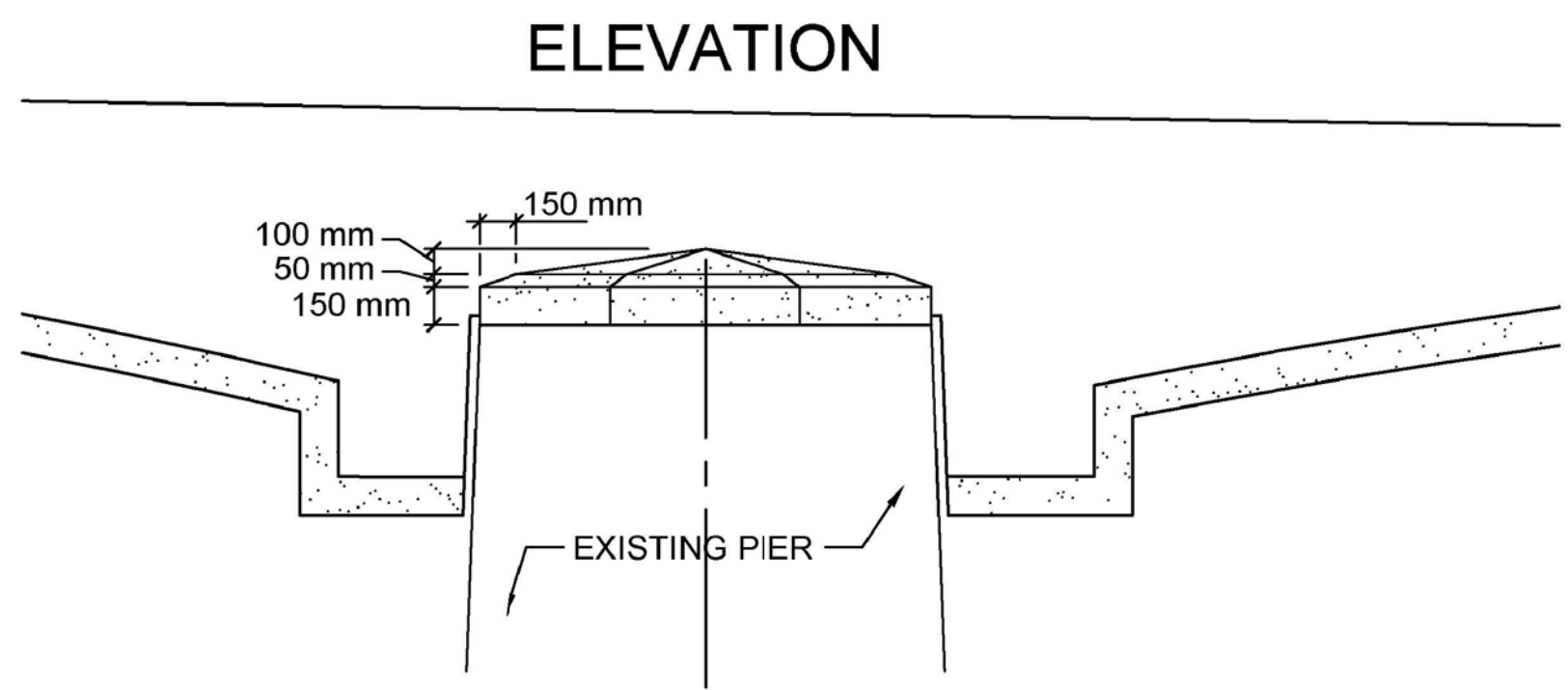
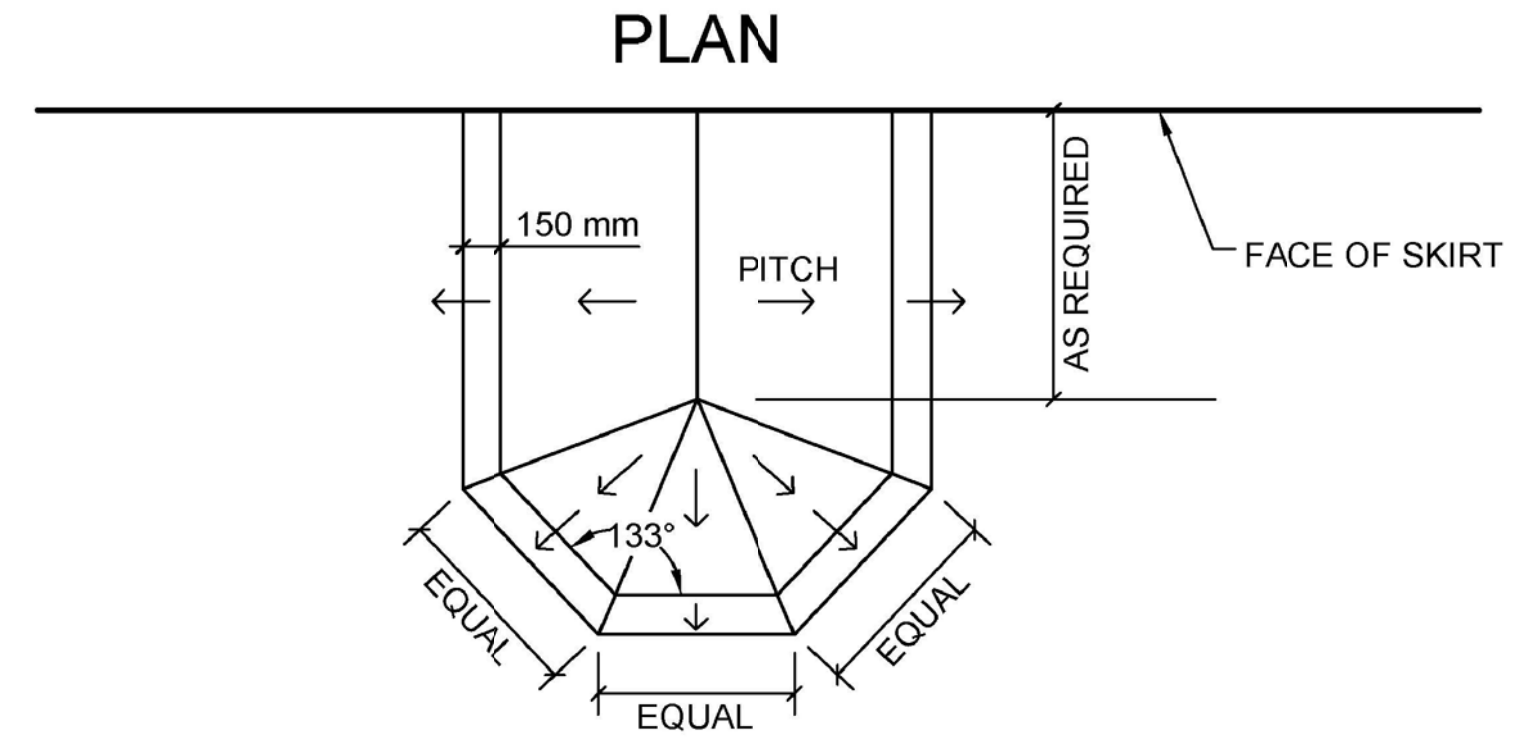
EXPANSION GAP BETWEEN MASONRY FACADE AND PIER	
LOCATION	'G' (mm)
S. ABUT.	20
PIER 1	20
PIER 2	15
PIER 3	20
N. ABUT.	20



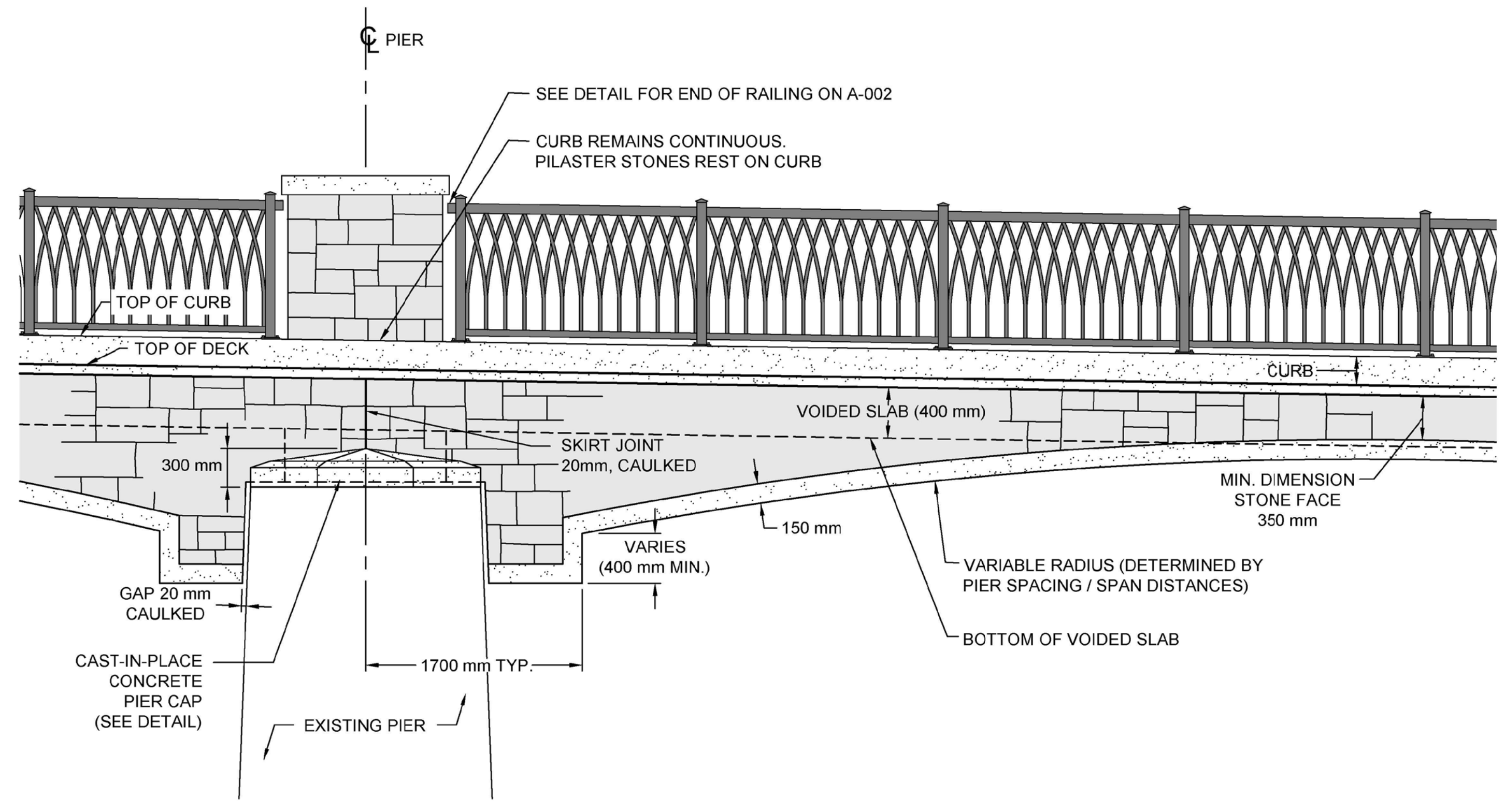
0	17 MAY 2018	ISSUED FOR CONSTRUCTION	D.H.
REV.	DATE	DESCRIPTION	BY
CONSULTANT:			
		BROWN CO	
PREPARED FOR:			
		BTE	
VICTORIA STREET PEDESTRIAN BRIDGE - ELORA, ONTARIO			
MASONRY SUPPORT FRAMING			
DES	D.H.	FEB. 2018	FILE NAME:
DRW	B.U.	FEB. 2018	JOB
CHK	S.B.	FEB. 2018	SCALE AS INDICATED
			DRAWING
			REV
			0

DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

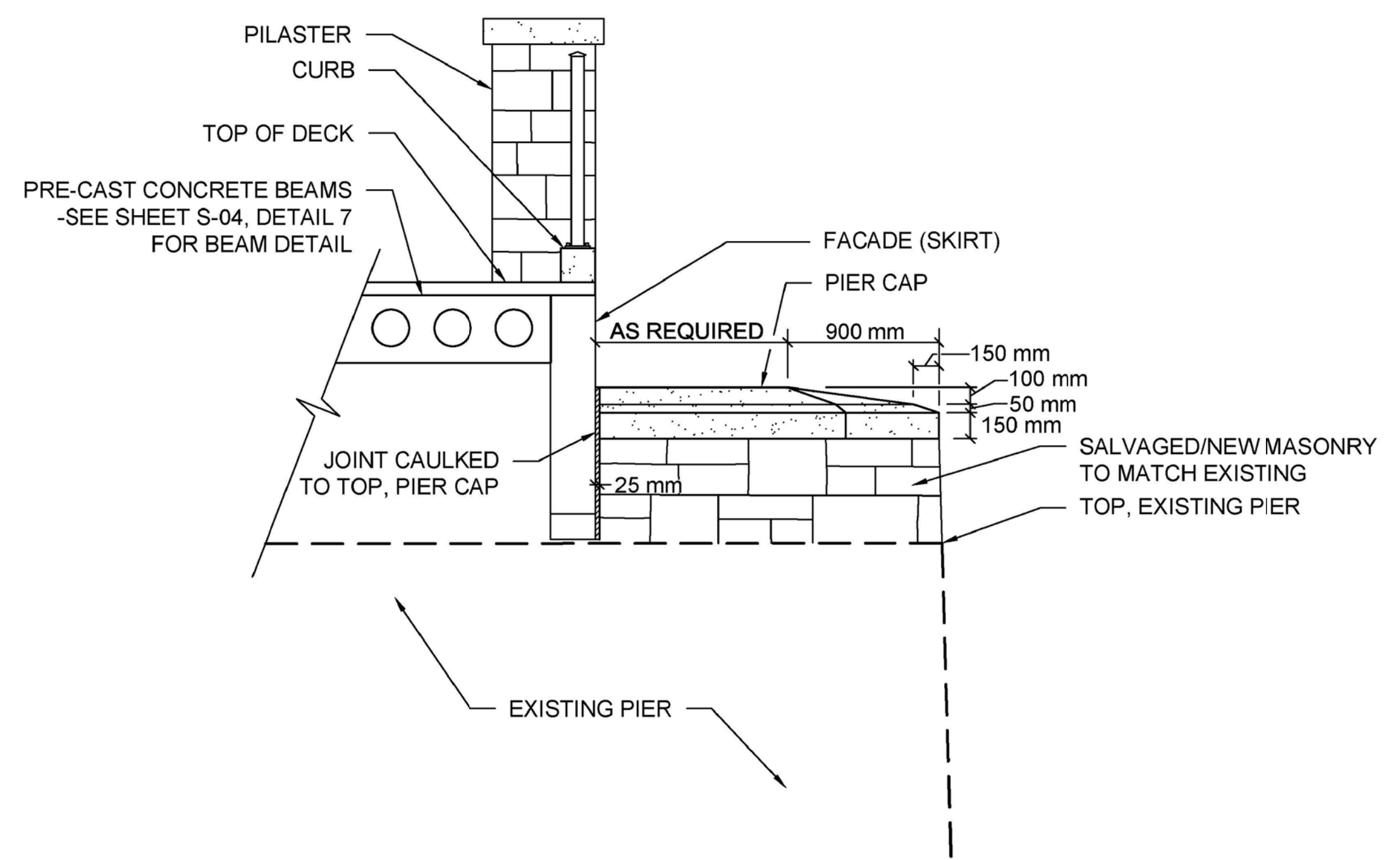
SUBMITTED BY: S.D. BROWN, P.E., REGISTERED PROFESSIONAL ENGINEER, PROVINCE OF ONTARIO. VICTORIA STREET PEDESTRIAN BRIDGE - ELORA, ONTARIO. MASONRY SUPPORT FRAMING.



**PRE-CAST CONCRETE
PIER CAP DETAIL**
N.T.S.



PARTIAL ELEVATION
N.T.S.



SECTION/ ELEVATION A-A
N.T.S.

Key Map
Scale: N.T.S.

- Notes:
1. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
 2. DRAWINGS PLOTTED HALF SIZE (1/2) ARE NOT TO SCALE.

Legend:

No.	REVISIONS	Date	By	App.
4.	ISSUED FOR CONSTRUCTION	05/17/18	J.G.	J.G.
3.	ADDENDUM 1	04/06/18	J.G.	J.G.
2.	ISSUED FOR TENDER	03/28/18	J.G.	J.G.
1.	ISSUED FOR 60% REVIEW	1/15/18	J.G.	J.G.



Owner/Client:



Location:

VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title:

ARCHITECTURAL TREATMENT CONCEPTS

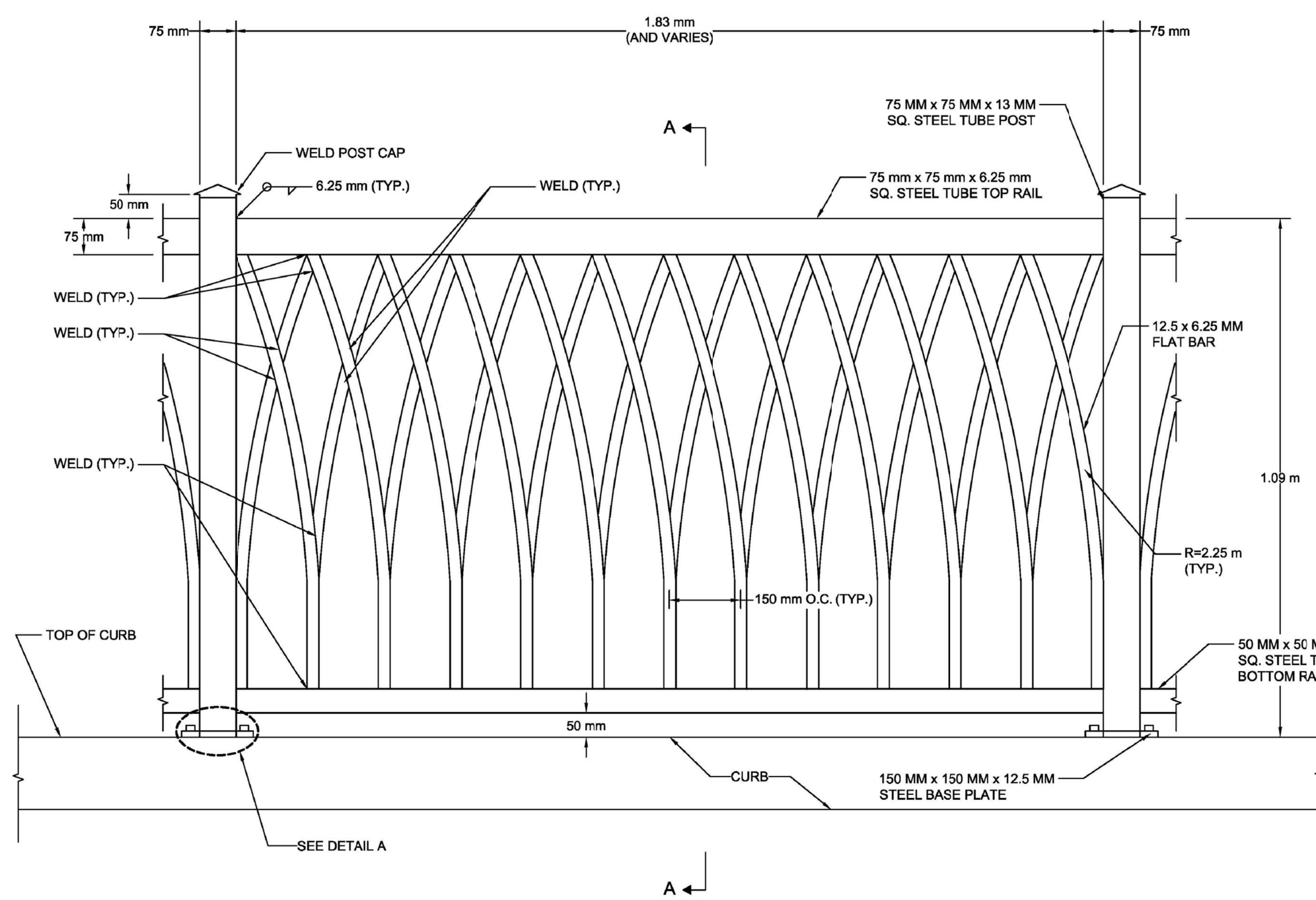
Designed By: J.G.	Checked By: S.J.T.	Date: May 2018
Drawn By: J.G.	Checked By: —	Project No.: 17-012

Scale: N.T.S.

Drawing No.: A-001

C:\Users\jgibson\OneDrive\Documents\Projects\Victoria St Ped Bridge\04 - Architectural\04-01 - Pier Cap\A-001.dwg (17-012) Add ISSUED FOR CONSTRUCTION.dwg | May 18, 2018 - 11:07am

Key Map
Scale: N.T.S.

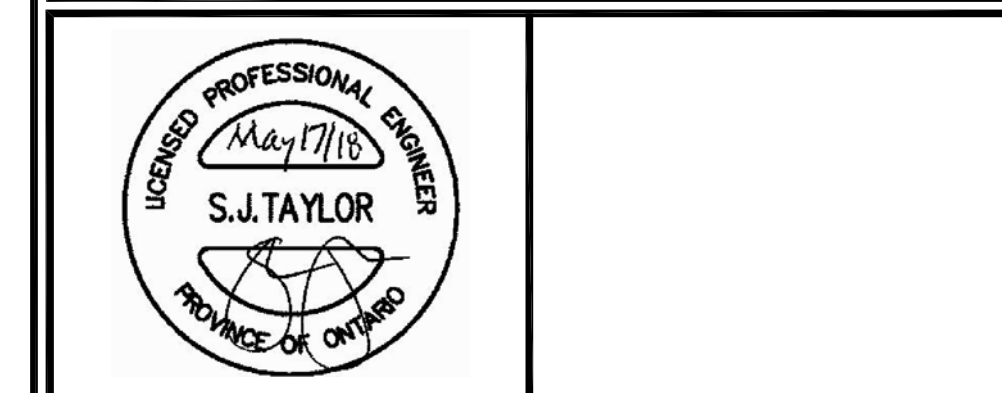


- NOTES:
1. PROVIDE COMPLETE RAILING SECTIONS SHOP WELDED, GALVANIZED AND POWDER COATED FOR FINAL INSTALLATION.
 2. POST SPACING AS INDICATED AND AS NECESSARY PER ACTUAL FIELD MEASUREMENTS AND APPROVED SHOP DRAWINGS
 3. EACH RAILING SECTION SHALL BE CONSTRUCTED TO WITHSTAND 1.0085 KN IN ANY DIRECTION. RAILING UNITS SUPPLIED MUST MEET LOADS SHOWN ON S-01.
 4. GRIND ALL PICKET WELDS SMOOTH.
 5. A 6 MM GAP BETWEEN PICKETS WOULD BE PERMITTED AS AN ALTERNATIVE.

Notes:
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2. DRAWINGS PLOTTED HALF SIZE (1/16") ARE NOT TO SCALE.

Legend:

No.	REVISIONS	Date	By	App.
4.	ISSUED FOR CONSTRUCTION	05/17/18	J.G.	J.G.
3.	ADDENDUM 1	04/06/18	J.G.	J.G.
2.	ISSUED FOR TENDER	03/28/18	J.G.	J.G.
1.	ISSUED FOR 60% REVIEW	1/15/18	J.G.	J.G.



Location: VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

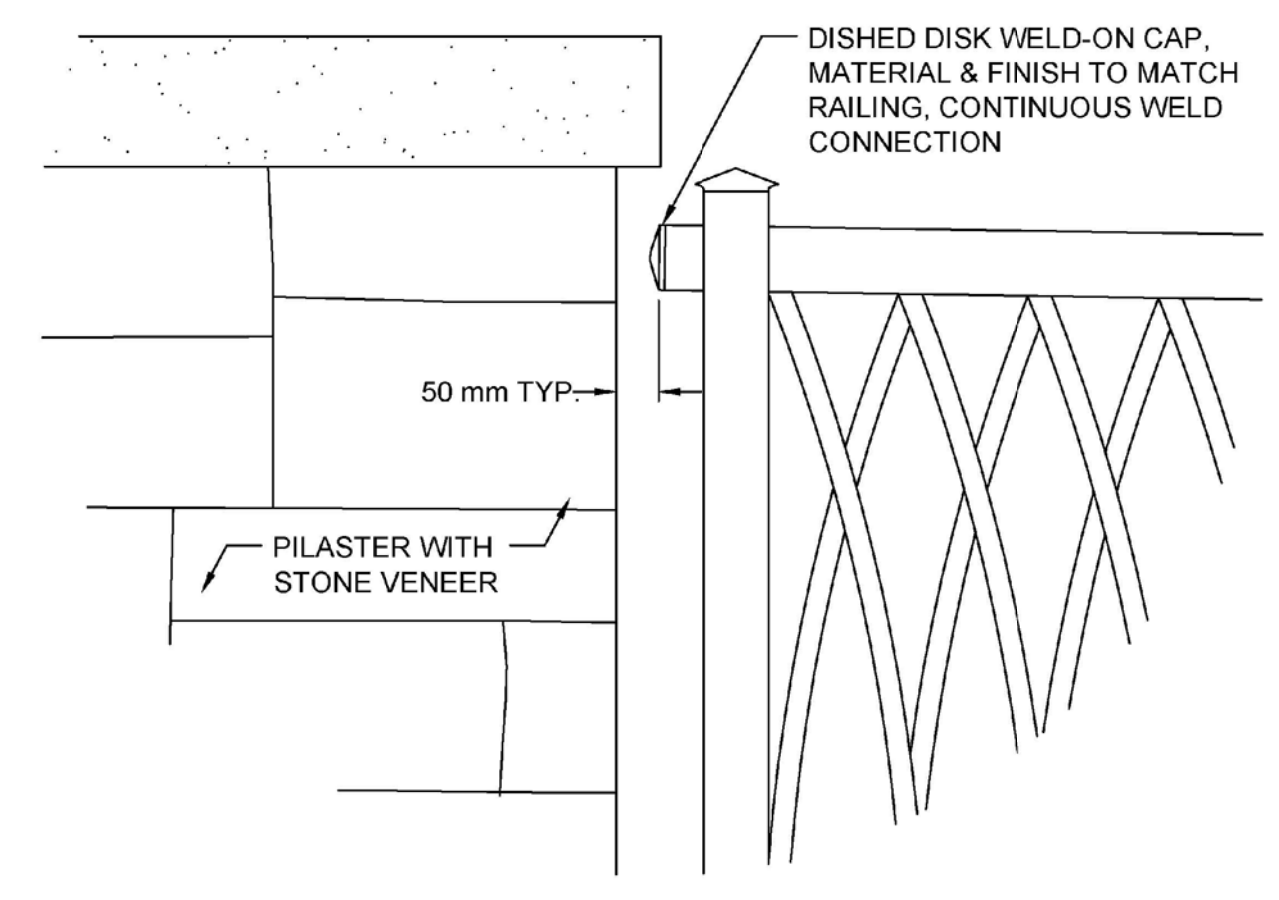
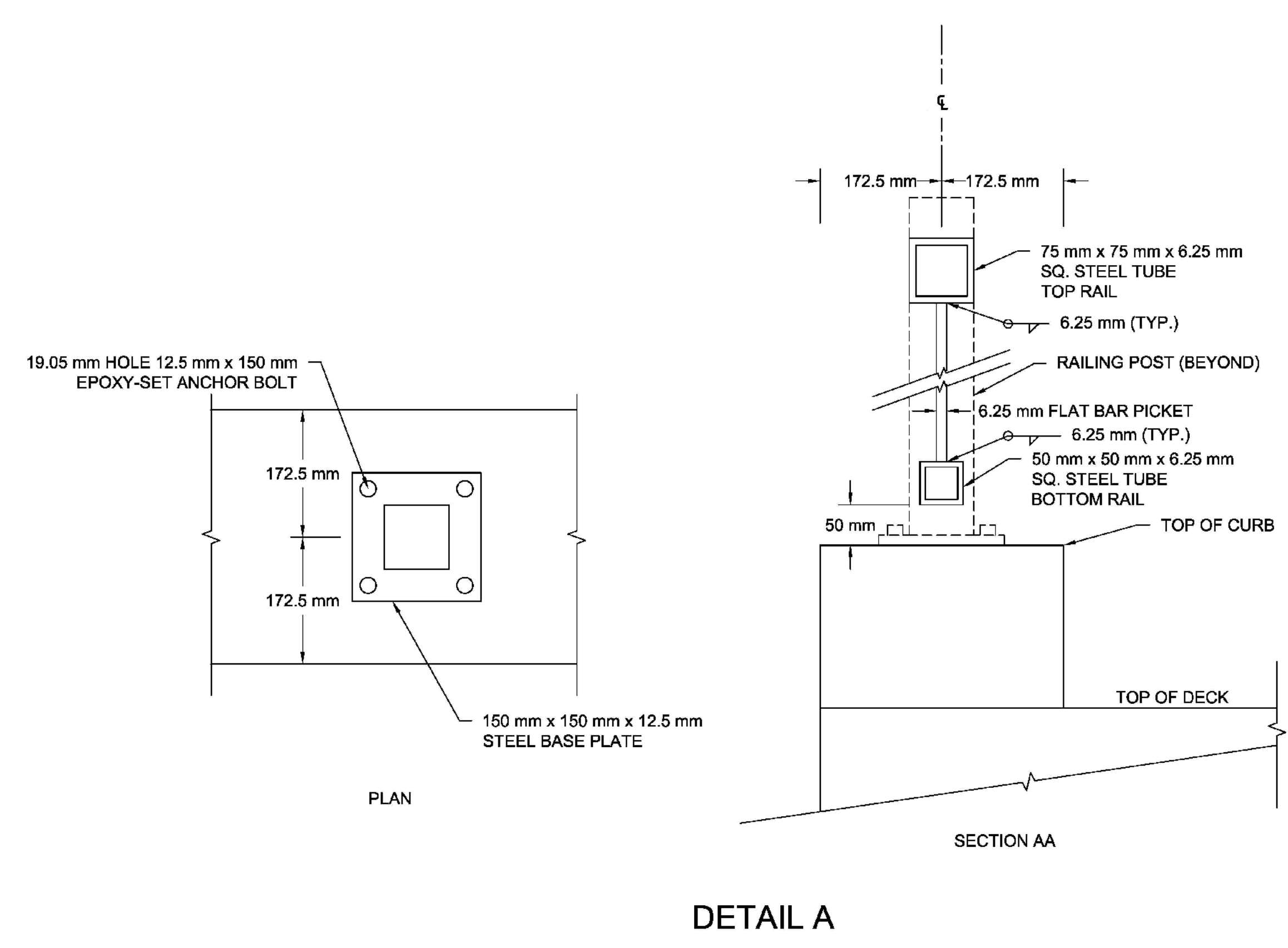
Title: RAILING AND CONNECTION DETAIL

Designed By: J.G. Checked By: S.J.T. Date: May 2018

Drawn By: J.G. Checked By: Project No.: 17-012

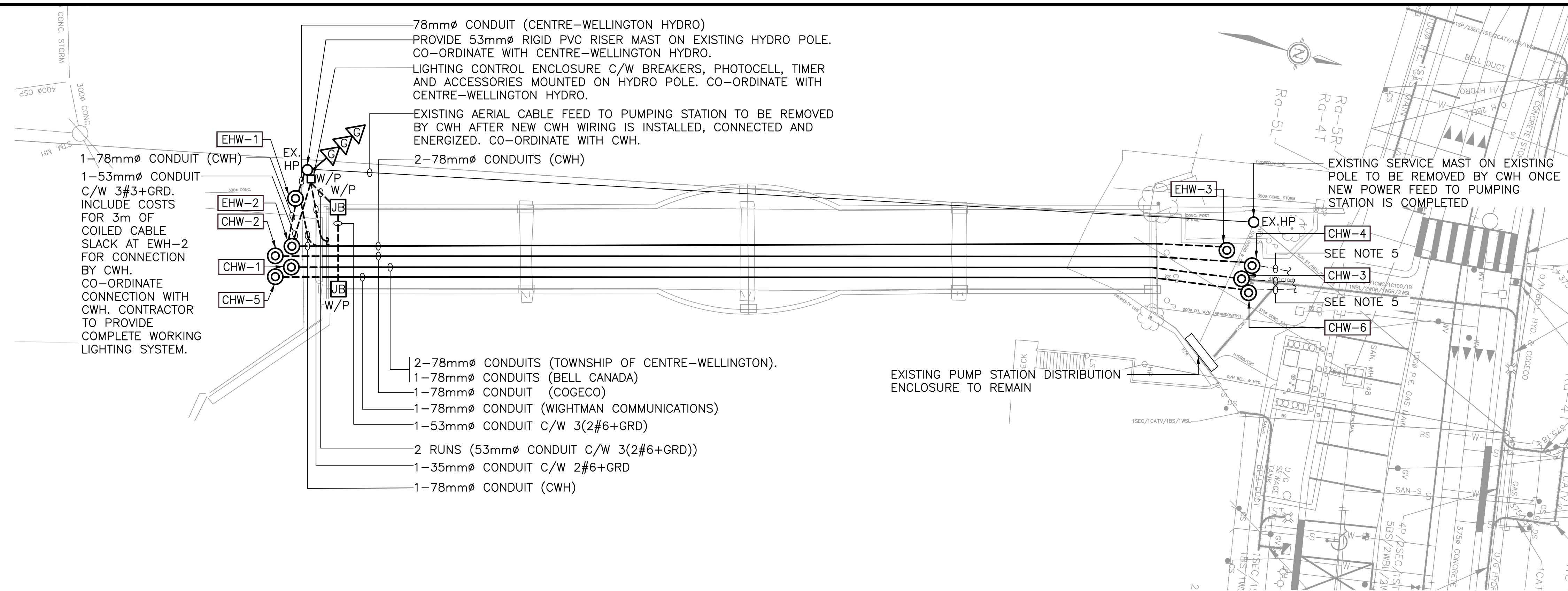
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Drawing No.: A-002

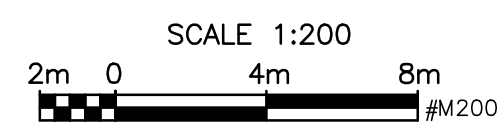


RAILING END CAP DETAIL
N.T.S.

B:\DATA\A\B\BCE\Project\2017\Proj\17-012 - Centre Wellington Pedestrian Bridge - Railing - 17-012 - Add. ISSUED FOR CONSTRUCTION.dwg | May 18, 2018 - 11:47am



ELECTRICAL SITE UTILITIES PLAN



LEGEND

- SURFACE-MOUNTED CONDUIT WITH WIRING AS NOTED
- - - BURIED OR CONCEALED CONDUIT WITH WIRING AS NOTED
- (A) LIGHTING STANDARD MOUNTED ON CONCRETE BASE C/W ONE (1) NEW TYPE 'A' LED LIGHTING FIXTURE AND W/P GFI RECEPTACLE WITH IN-USE COVER. LP-1 DENOTES LIGHTING POLE NO.1.
- LP1
- B TYPE 'B' 1219mm LED LIGHTING FIXTURE SURFACE-MOUNTED ON SIDES OF EXISTING BRIDGE PIERS. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR MOUNTING
- C TYPE 'C' 610mm LED LIGHTING FIXTURE SURFACE-MOUNTED ON SIDES OF EXISTING BRIDGE PIERS. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR MOUNTING
- ⚡ GROUND ROD 21mm, 3m LONG
- TR TIMER
- ⊕ 15A, 120V RECEPTACLE
- ELECTRICAL EQUIPMENT AS NOTED

ABBREVIATIONS

- EX EXISTING EQUIPMENT TO REMAIN
- W/P WEATHER PROOF
- C/W COMPLETE WITH
- GFI GROUND FAULT INTERRUPTER
- U/G UNDERGROUND
- RPVC RIGID PVC
- CWH CENTRE-WELLINGTON HYDRO

GENERAL NOTES:

1. THE CONTRACT DRAWINGS DO NOT SHOW EXISTING SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME INFORMED OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL EXISTING UTILITIES, SERVICES, AND STRUCTURES BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWINGS AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED. THE CONTRACTOR SHALL PROTECT THESE SERVICES TO THE SATISFACTION OF THE OWNER, DAMAGES BY THE CONTRACTOR SHALL BE RESTORED AT NO EXPENSE TO THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL UNDERGROUND STAKE-OUT AND UTILITY LOCATES. THE CONTRACTOR IS RESPONSIBLE TO ENGAGE A QUALIFIED UTILITY LOCATE SPECIALIST FOR THE PROJECT AND INCLUDE ALL COSTS. THE CONTRACT DRAWINGS DO NOT SHOW EXISTING UNDERGROUND UTILITIES.
3. ONCE ALL LOCATES FOR BURIED SERVICES ARE OBTAINED, PREPARE ROUTING PLAN FOR NEW BURIED SERVICES, ADHERING TO ALL MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS. FOR CROSSING OVER OR PASSING UNDER UTILITIES REFER TO O.P.S.D. STANDARD NO. 2103.05.
4. ALL EXISTING INFORMATION TO BE CONFIRMED. EXISTING EQUIPMENT SHOWN BASED ON AVAILABLE AS-BUILT INFORMATION ONLY AND CONTRACTOR TO CONFIRM ON SITE AS REQUIRED. INFORMATION IS PROVIDED AS A REFERENCE FOR FULFILLING REQUIREMENTS AS DESCRIBED WITHIN THE CONTRACT.
5. ALL DIMENSIONS AND INFORMATION SHALL BE CHECKED AND VERIFIED ON THE JOB AND ANY DISCREPANCIES MUST BE REPORTED BEFORE COMMENCING THE WORK.
6. VISIT THE SITE AND EXAMINE THE CONDITIONS AND MAKE NECESSARY ALLOWANCES IN THE TENDER PRICE FOR REMOVAL, REROUTING, RELOCATION AND RECONNECTION OF ELECTRICAL EQUIPMENT AND WIRING AS MAY BE NECESSARY FOR THE EXECUTION AND COMPLETION OF THE PROJECT, EXTRA CHARGES FOR PREMIUM TIME SHALL BE INCLUDED IN THE TENDER AMOUNT.
6. ALL MISCELLANEOUS ELECTRICAL EQUIPMENT BEING REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND IF THE OWNER HAS NO USE FOR IT, IT SHALL BE DISPOSED OF.
7. REPAIR, PATCH AND PAINT SURFACES AFFECTED BY CONSTRUCTION.

NOTES:

1. HANDWELLS EHW1, EHW2 AND EHW3 TO BE SUPPLIED BY CENTRE-WELLINGTON HYDRO AND INSTALLED BY THIS CONTRACTOR. HANDWELL DIMENSIONS ARE 610mmL x 406mmW x 381mmD. CO-ORDINATE WITH CENTRE-WELLINGTON HYDRO.
2. THIS CONTRACTOR SHALL PROVIDE HANDWELLS CHW1 AND CHW3.
3. HANDWELLS CHW2 AND CHW4 TO BE SUPPLIED BY WIGHTMAN COMMUNICATIONS AND INSTALLED BY THIS CONTRACTOR. CO-ORDINATE WITH WIGHTMAN COMMUNICATIONS.
4. HANDWELLS CHW5 AND CHW6 TO BE SUPPLIED BY COGECO AND INSTALLED BY THIS CONTRACTOR. CO-ORDINATE WITH COGECO.
5. INVESTIGATE EXISTING CONDUITS INSTALLED BELOW SURFACE. PROVIDE CONDUITS TO INTERCEPT EXISTING BELL CANADA, CENTRE-WELLINGTON COMMUNICATIONS, WIGHTMAN COMMUNICATIONS AND COGECO CONDUITS AS FOLLOWS:
 - INTERCEPT EXISTING 91mmØ CONDUIT FOR BELL CANADA AND EXISTING 78mmØ CONDUIT FOR CENTRE-WELLINGTON COMMUNICATIONS TO CHW3 FROM EXISTING CONDUIT ENDPPOINTS. INCLUDE ALL COSTS.
 - INTERCEPT EXISTING 78mmØ CONDUIT FOR WIGHTMAN COMMUNICATIONS TO CHW4 FROM EXISTING CONDUIT ENDPPOINT. INCLUDE ALL COSTS.
 - INTERCEPT EXISTING 78mmØ CONDUIT FOR COGECO TO CHW6 FROM EXISTING CONDUIT ENDPPOINT. INCLUDE ALL COSTS.

Key Map
Scale: N.T.S.

Notes:
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2. DRAWINGS PLOTTED HALF SIZE (11x17) ARE NOT TO SCALE.

Legend:

4.	ISSUED FOR CONSTRUCTION	17/05/2018	T.D.	C.M.
3.	ISSUED FOR TENDER	28/03/2018	T.D.	C.M.
2.	ISSUED FOR 100% SUBMISSION	02/03/2018	T.D.	C.M.
1.	ISSUED FOR 60% SUBMISSION	20/02/2018	T.D.	C.M.
No.	REVISIONS	Date	By	App.



Logos for BTE Engineering Inc., BROWN | CO, and other project partners.



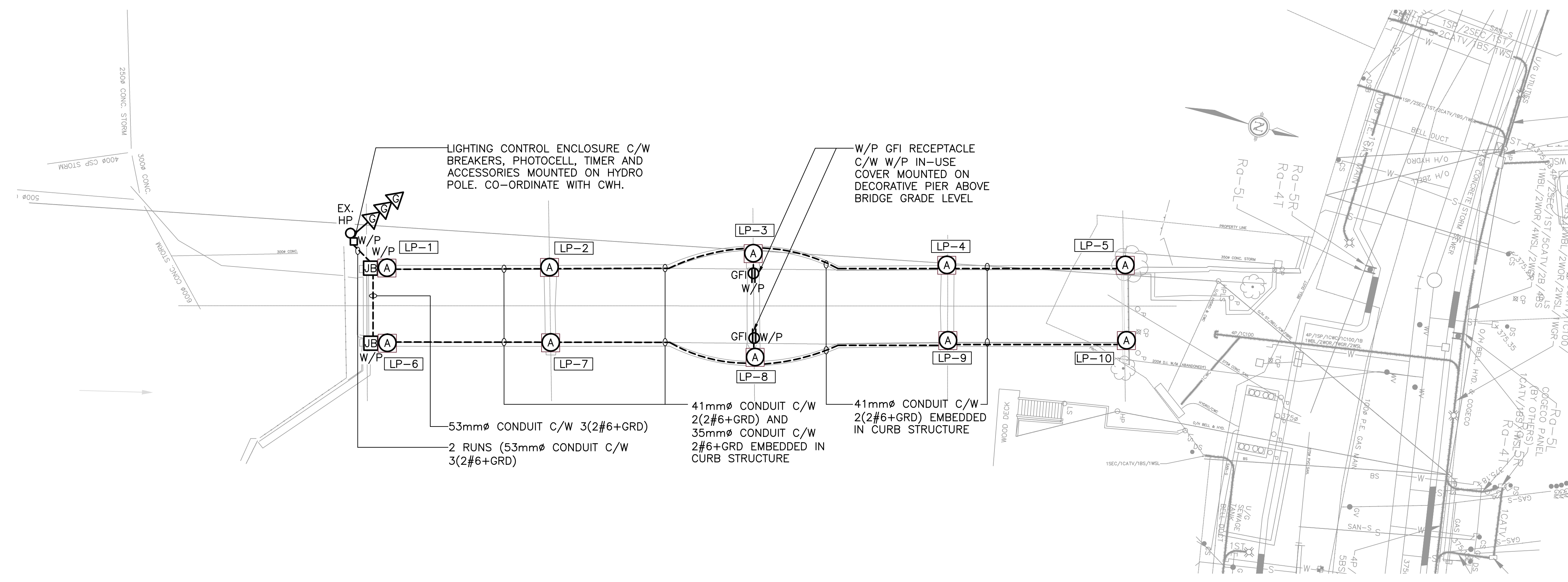
Location: VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title: ELECTRICAL
SITE UTILITIES PLAN, LEGEND AND NOTES

Designed By: C.M.	Checked By: C.V.	Date: March 2018
Drawn By: T.D.	Checked By: C.M.	Project No.: 17-012

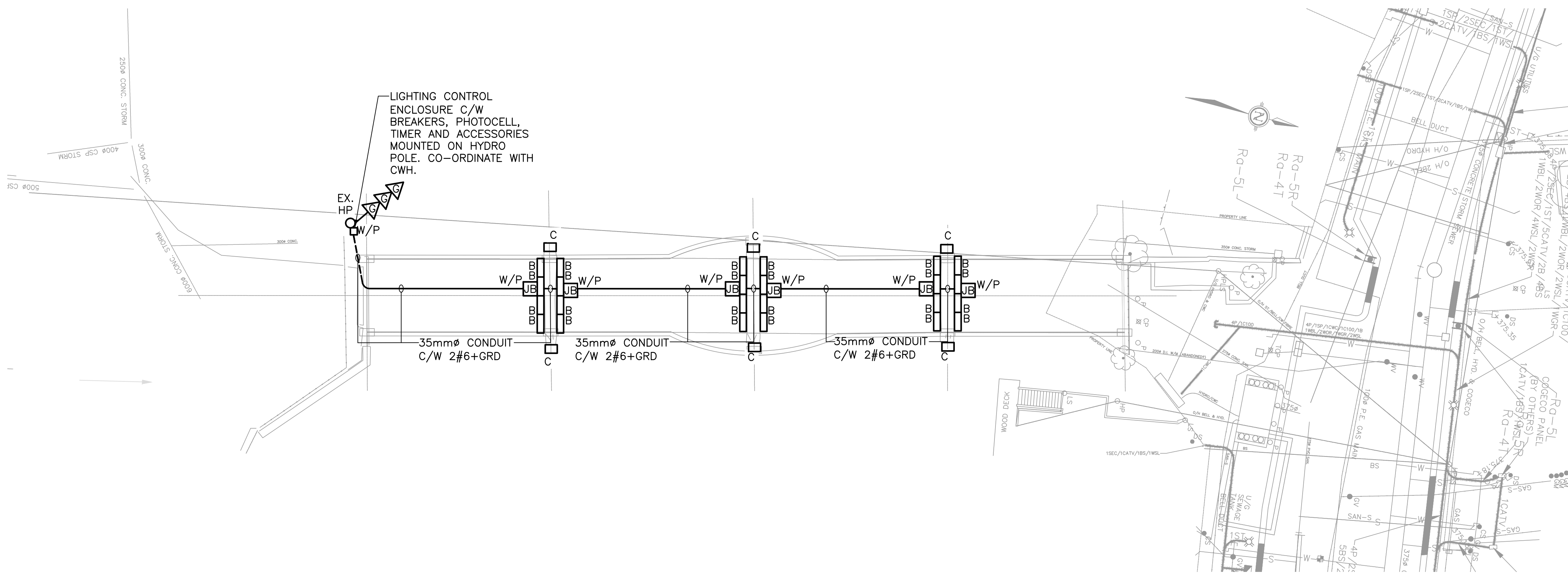
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Drawing No.: E-001



BRIDGE STREET LEVEL LIGHTING PLAN

SCALE 1:200
2m 0 4m 8m
#M200



BRIDGE LOWER LEVEL LIGHTING PLAN

SCALE 1:200
2m 0 4m 8m
#M200

Key Map
Scale: N.T.S.

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Legend:

No.	REVISIONS	Date	By	App.
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3.	ISSUED FOR TENDER	28/03/2018	T.D.	C.M.
2.	ISSUED FOR 100% SUBMISSION	02/03/2018	T.D.	C.M.
1.	ISSUED FOR 60% SUBMISSION	20/02/2018	T.D.	C.M.



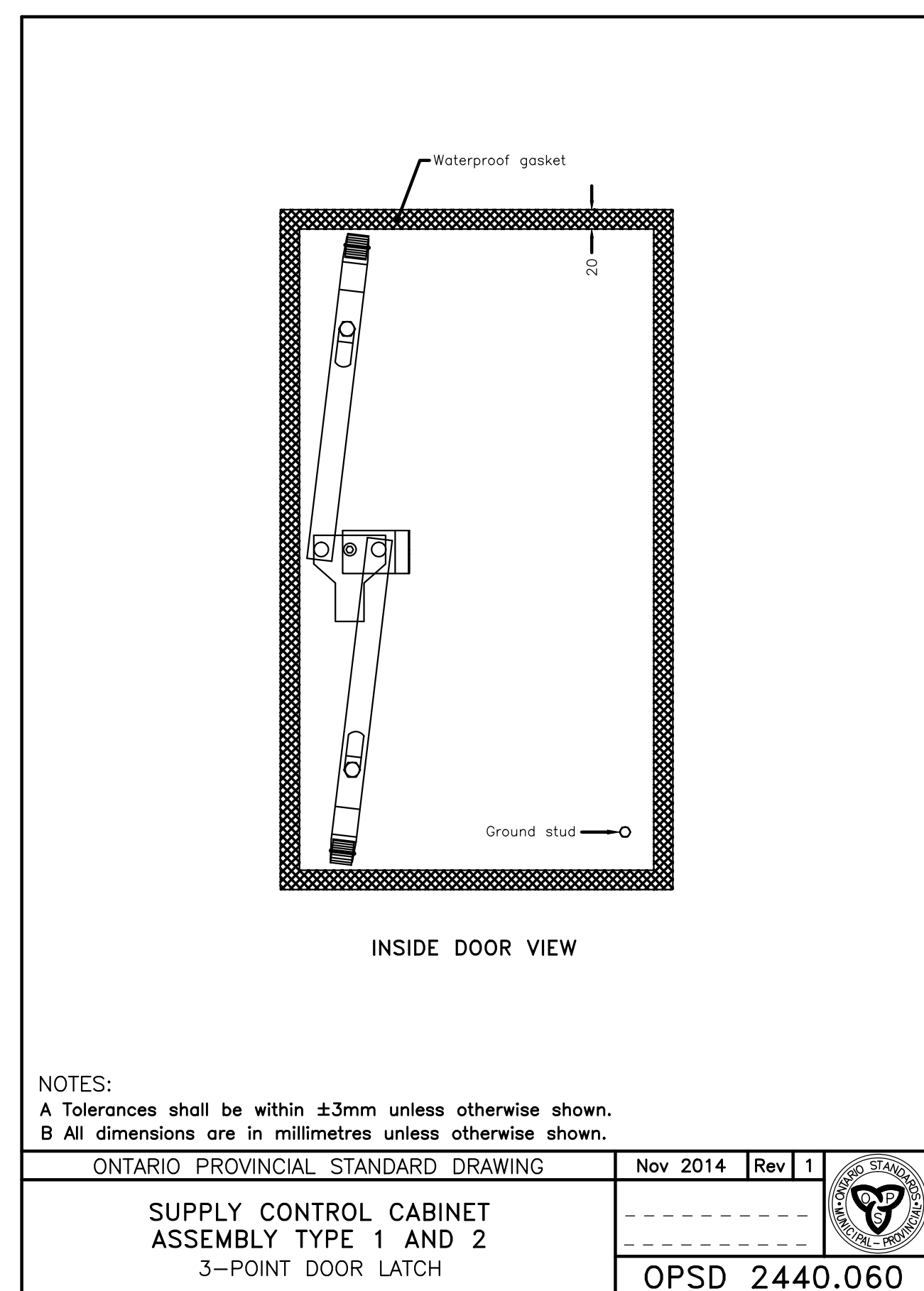
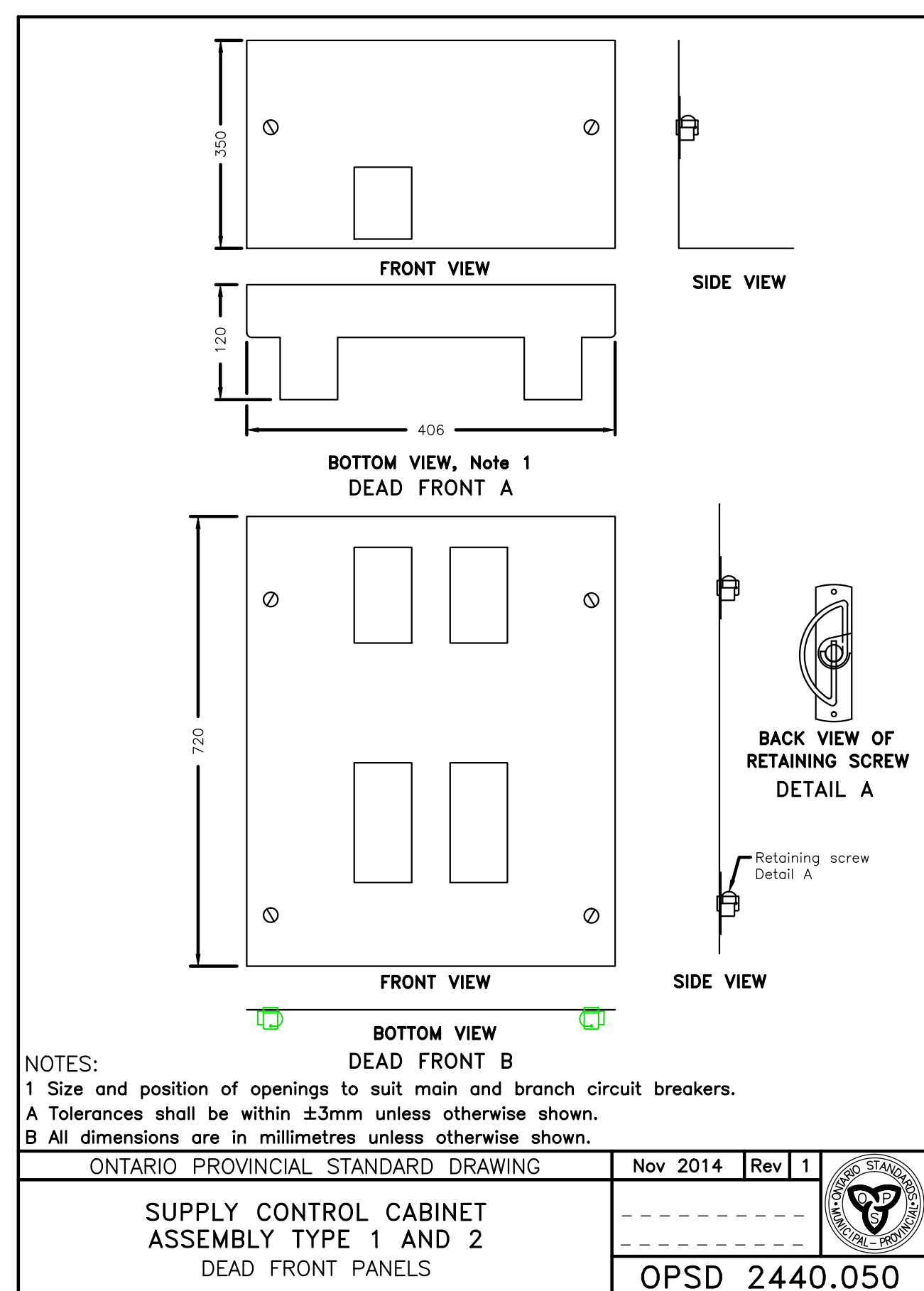
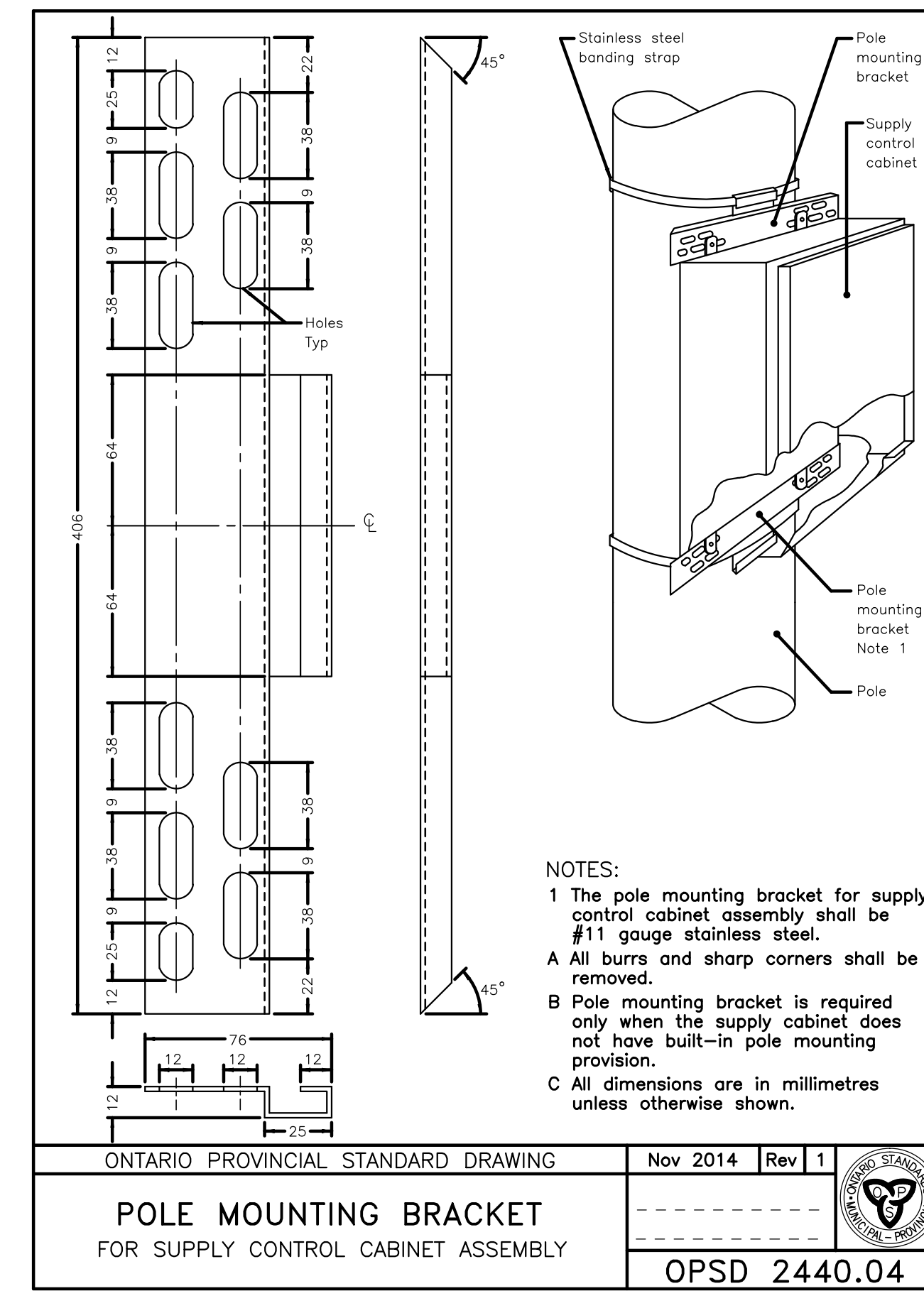
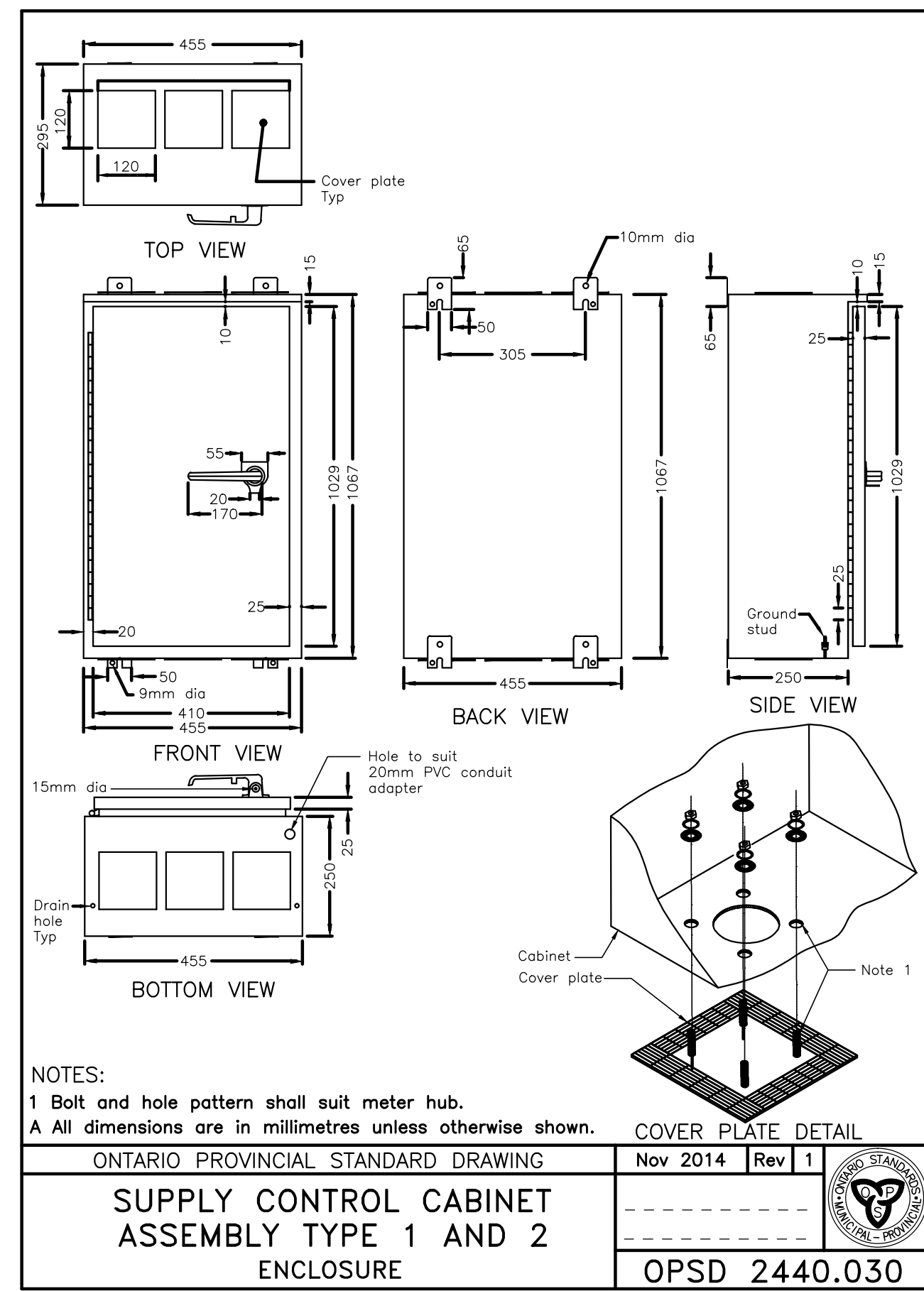
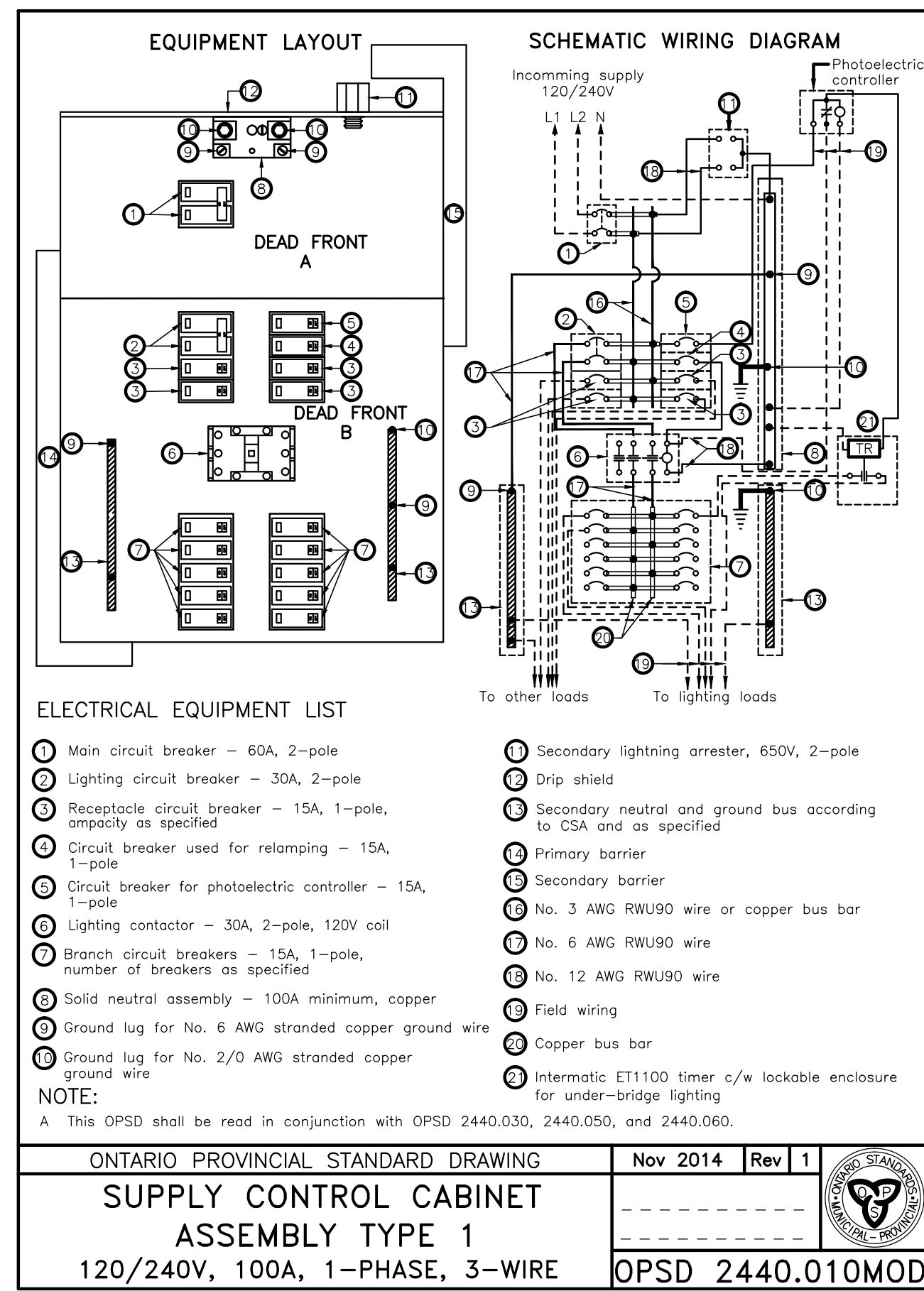
Location: VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title: ELECTRICAL
BRIDGE STREET LEVEL
AND LOWER LEVEL LIGHTING PLAN

Designed By: C.M.	Checked By: C.V.	Date: March 2018
Drawn By: T.D.	Checked By: C.M.	Project No.: 17-012

Scale: Horizontal 1:200 Vertical

Drawing No.: E-002



120/240V, 1Ø, 3W DISTRIBUTION PANEL C/W 60A-2P MAIN BREAKER

DESCRIPTION	CIRCUIT LOAD	BREAKER AMPS	CIRCUIT No.		BREAKER AMPS	CIRCUIT LOAD	DESCRIPTION
			RED1	RED2			
LIGHTING CONTACTOR		30A-2P	BLK3	BLK4	15A-1P		PHOTOCELL AND TIMER
LP-1, LP-2, LP-3, LP-4, LP-5 GFI REC.	1500 W	15A-1P	RED5	RED6	15A-1P	1500 W	LP-6, LP-7, LP-8, LP-9, LP-10 GFI REC.
WEST BRIDGE GFI REC.	1500 W	15A-1P	BLK7	BLK8	15A-1P	1500 W	EAST BRIDGE GFI REC.
LP-1, LP-2, LP-3, LP-4, LP-5 LIGHTS	205 W	15A-1P	RED9	RED10	15A-1P		SPARE
LP-6, LP-7, LP-8, LP-9, LP-10 LIGHTS	205 W	15A-1P	BLK11	BLK12	15A-1P	432 W	UNDER BRIDGE LIGHTING
SPARE		15A-1P	RED13	RED14	15A-1P		SPARE
SPARE		15A-1P	BLK15	BLK16	15A-1P		SPARE
SPARE		15A-1P	RED17	RED18	15A-1P		SPARE

TOTAL LOAD FOR LIGHTING = 842 W, TOTAL RECEPTACLE LOAD = 6000W

POLE & LUMINAIRE SCHEDULE

LUMINAIRE TYPE	POLE #	POLE TYPE	LUMINAIRE	REMARKS
A	LP-1 LP-2 LP-3 LP-4 LP-5 LP-6 LP-7 LP-8 LP-9 LP-10	3.05m TAPERED OCTAGONAL POLE, ALUMINUM BASE-MOUNTED KING LUMINAIRE KM1LPC-10-3P-LRN-BK C/W W/P GFI RECEPTACLE AND 457mm LADDER RESTS BOTH SIDES OF POLE.	41W, 120V, BLACK FINISH, 3000K CCT. KING LUMINAIRE #56-S-K13-PAIR-118-40-SSL-7030-120-BK-3000K	ALUMINUM POLE C/W BLACK FINISH. CO-ORDINATE MOUNTING OF FIXTURE WITH MOUNTING OF POLE AND ARCHITECTURAL AND STRUCTURAL INSTALLATIONS AT PIER.
B			16W, 120V, GREY, 3000K CCT. INSIGHT LIGHTING MWII-3.5-30K-15DEG-EAS12-48"-INT1-DM-TS-CRF C/W ACL CONNECTORS	1219mm WALL-MOUNTED DECORATIVE DOWNLIGHT, 12" EXTENDED MOUNTING ARM, TEXTURED SANDSTONE FINISH.
C			8W, 120V, GREY, 3000K CCT. INSIGHT LIGHTING MWII-3.5-30K-15DEG-EASW12-24"-INT1-DM-TS-CRF C/W ACL CONNECTORS	610mm WALL-MOUNTED DECORATIVE DOWNLIGHT, 12" EXTENDED MOUNTING ARM, TEXTURED SANDSTONE FINISH.

Key Map
Scale: N.T.S.

Notes:
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2. DRAWINGS PLOTTED HALF SIZE (11x17) ARE NOT TO SCALE.

Legend:

4. ISSUED FOR CONSTRUCTION	17/05/2018	T.D.	C.M.
3. ISSUED FOR TENDER	28/03/2018	T.D.	C.M.
2. ISSUED FOR 100% SUBMISSION	02/03/2018	T.D.	C.M.
1. ISSUED FOR 60% SUBMISSION	20/02/2018	T.D.	C.M.

REVISIONS

No.	REVISIONS	Date	By	App.

Professional Engineer Seal:
C. VALENTINE
100115490
2018/03/09
PROV/INCE OF ONTARIO

Logos:
BTE Engineering
Brown | cc
Stantec
Morgan+Metcalf Ltd. Consulting Engineers

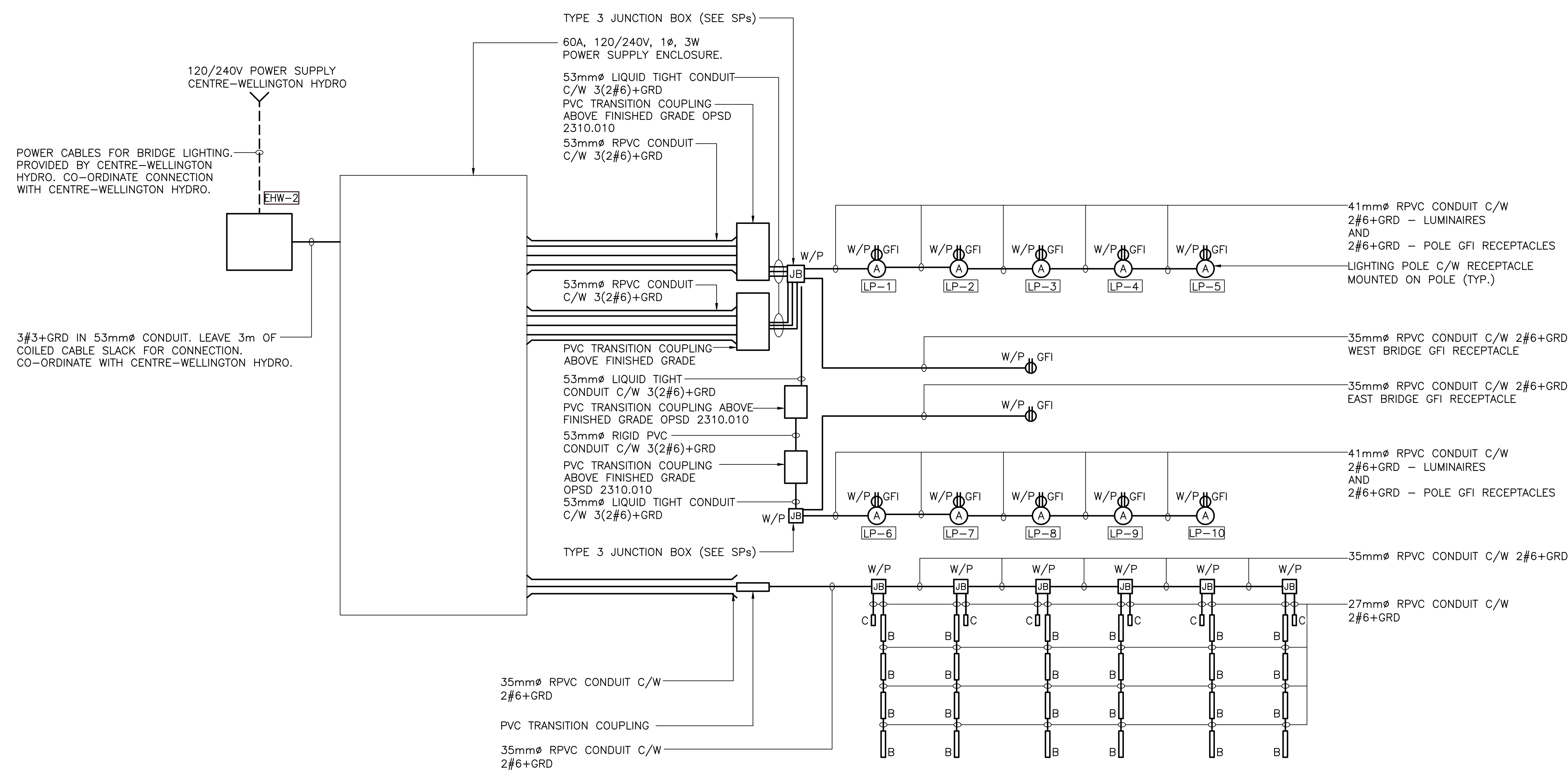
Owner/Client:
Centre Wellington

Location:
VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title:
ELECTRICAL DIAGRAMS, SCHEDULES & DETAILS

Designed By: C.M. **Checked By:** C.V. **Date:** March 2018
Drawn By: T.D. **Checked By:** C.M. **Project No.:** 17-012
Scale: Horizontal
Scale: Vertical

Drawing No.:
E-003



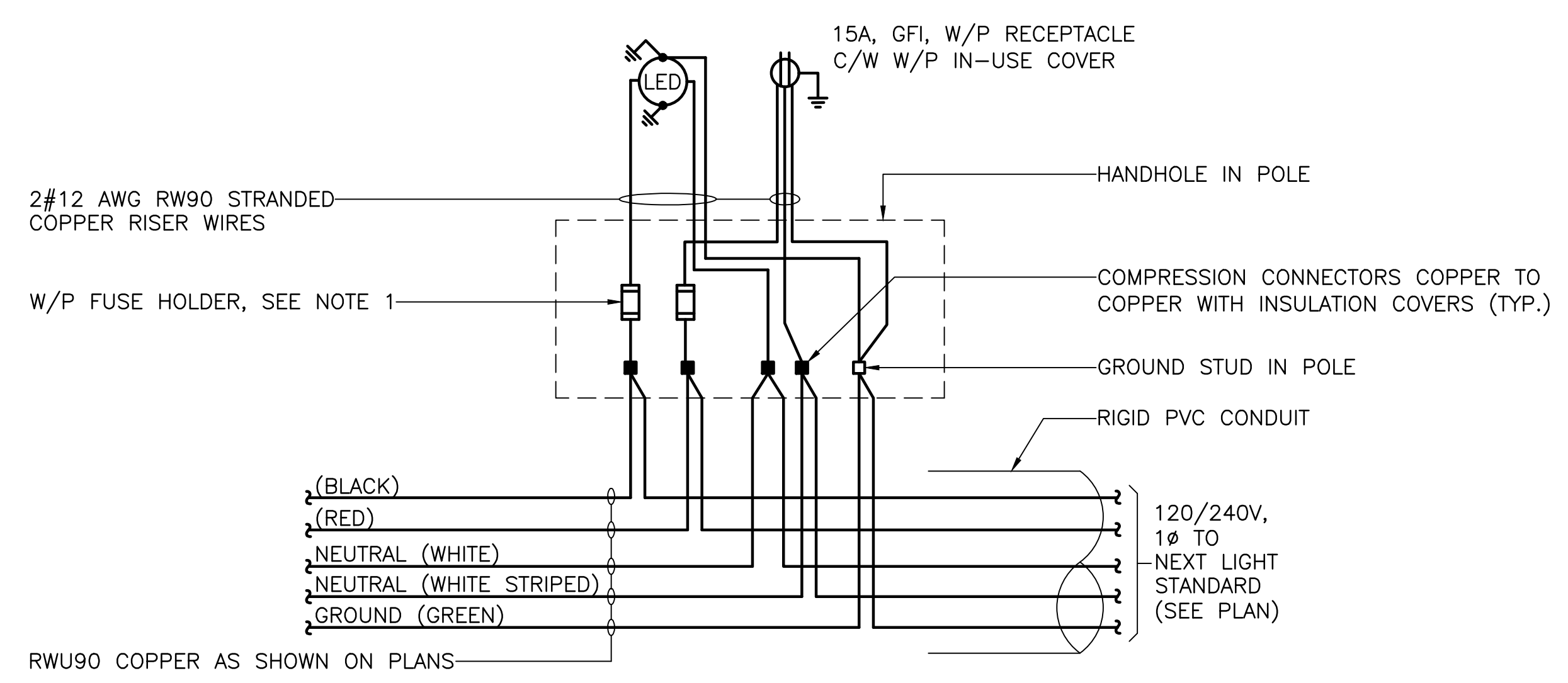
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Legend:

No.	REVISIONS	Date	By	App.
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1.	ISSUED FOR 60% SUBMISSION	20/02/2018	T.D.	C.M.

LIGHTING WIRING DIAGRAM



NOTES:

- IN-LINE WATERPROOF FUSEHOLDER 600V, 30A WITH BREAKAWAY FEATURE. GOULD GEB-11-11 C/W WATERPROOF INSULATING BOOTS AND ONE 15 AMP FUSE TYPE KTK 600 VOLTS OR APPROVED EQUAL.
- ALL GROUNDING WIRES TO BE FITTED WITH COMPRESSION LUGS BEFORE SECURING TO GROUND STUD IN POLE.

POLE WIRING DIAGRAM 120/240V



BTE ENGINEERING INC.

BROWN | CO

Stantec

Morgan-Morris Ltd. Consulting Engineers



Location: VICTORIA STREET PEDESTRIAN BRIDGE ELORA, ONTARIO

Title: LIGHTING WIRING DIAGRAM AND POLE WIRING DIAGRAM

Designed By: C.M.	Checked By: C.V.	Date: January 2018
Drawn By: T.D.	Checked By: C.M.	Project No.: 17-012
Scale: Horizontal 1:200		Vertical

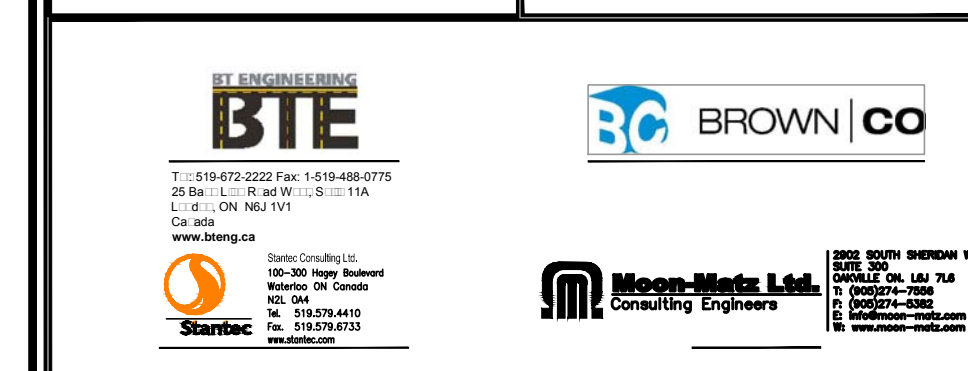
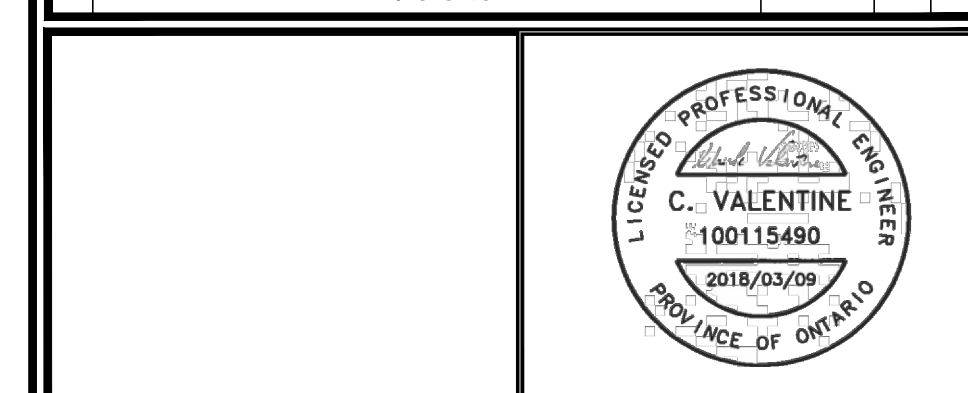
Drawing No.: **E-004**

Key Map
Scale: N.T.S.

Notes:
1. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
2. DRAWINGS PLOTTED HALF SIZE (11x17) ARE NOT TO SCALE.

Legend:

4.	ISSUED FOR TENDER	17/05/2018	T.D.	C.M.
3.	ISSUED FOR TENDER	28/03/2018	T.D.	C.M.
2.	ISSUED FOR 100% SUBMISSION	02/03/2018	T.D.	C.M.
1.	ISSUED FOR 60% SUBMISSION	20/02/2018	T.D.	C.M.
No.	REVISIONS	Date	By	App.

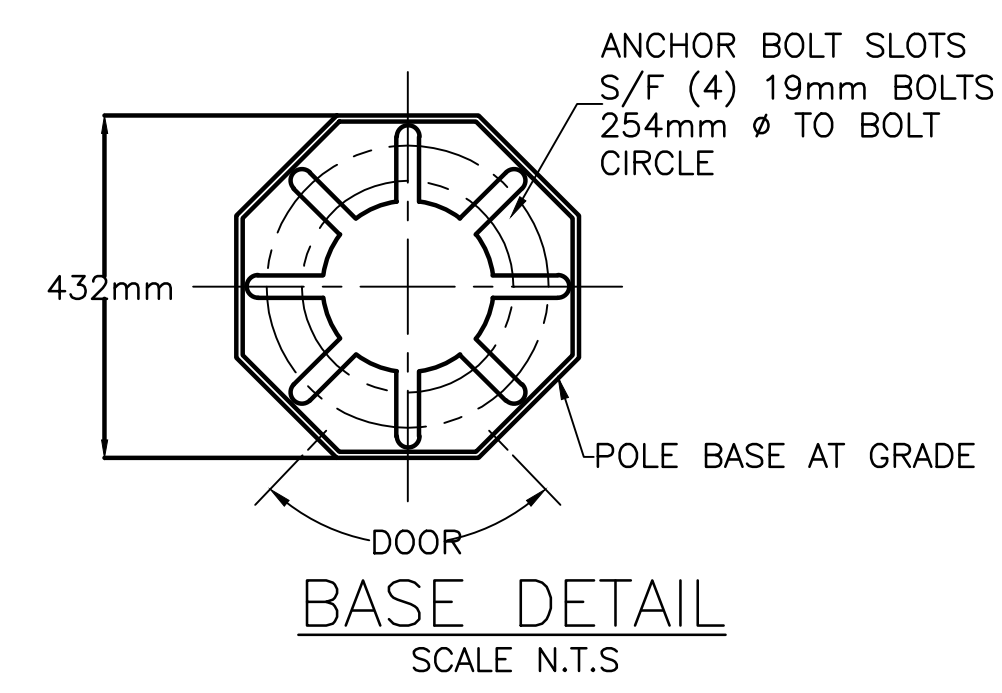
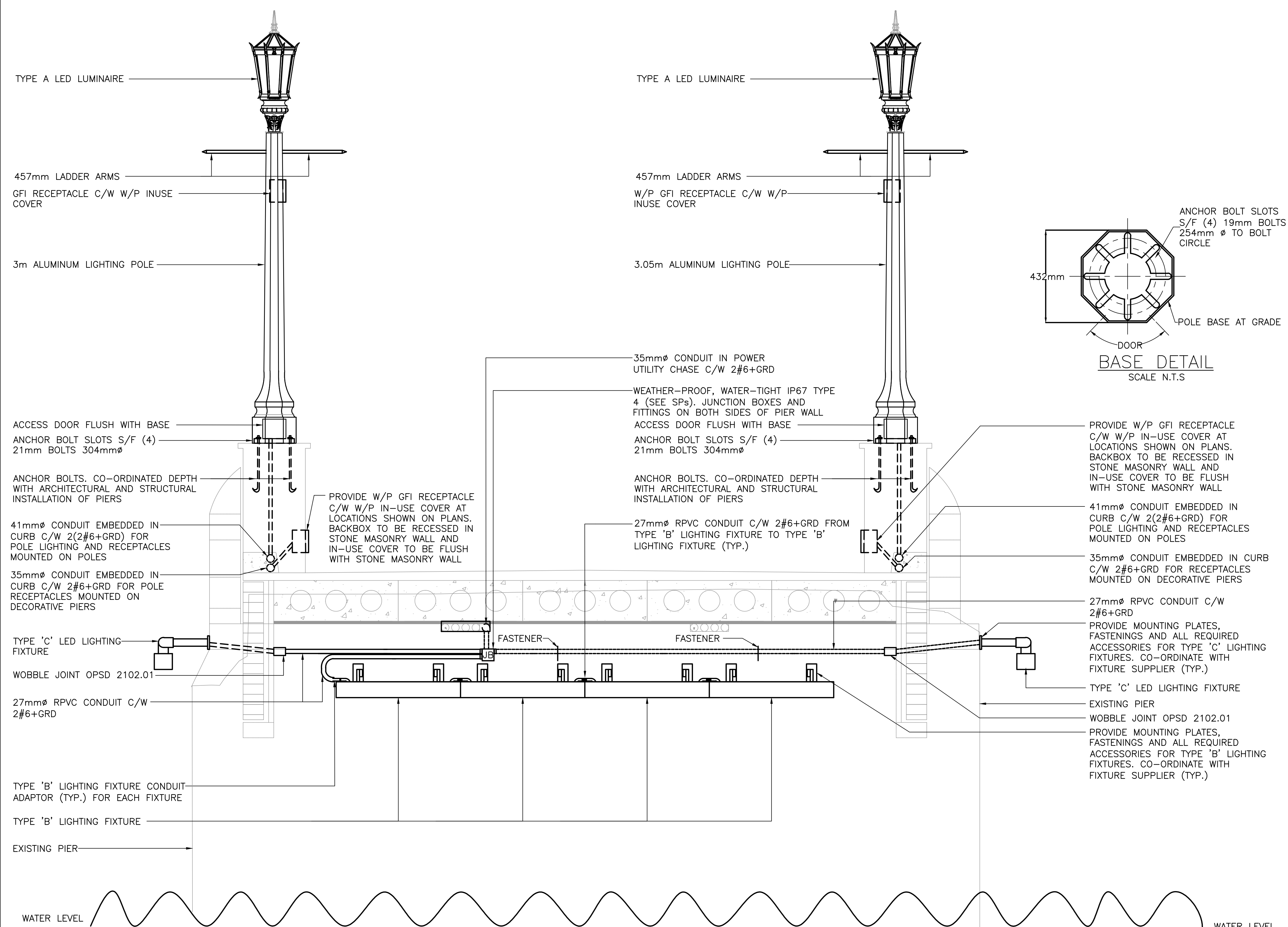


Location: VICTORIA STREET PEDESTRIAN BRIDGE
ELORA, ONTARIO

Title: SIDE AND UNDER-BRIDGE LIGHTING
MOUNTING AT MODIFIED PIERS

Designed By: C.M.	Checked By: C.V.	Date: January 2018
Drawn By: T.D.	Checked By: C.M.	Project No.: 17-012
Scale: Horizontal	Vertical	

Drawing No.: E-005



SECTION SIDE AND UNDER-BRIDGE LIGHTING AT MODIFIED PIERS
SCALE N.T.S.

- NOTES:
1. INSTALLATIONS ARE SIMILAR AT EACH PIER AND EACH SIDE OF PIER WALL.
 2. CO-ORDINATE MOUNTING WITH PIER INSTALLATION. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
 3. CO-ORDINATE LOCATION OF BRACKET ARMS WITH TOWNSHIP OF CENTRE-WELLINGTON PRIOR SHOP DRAWING REVIEW.
 4. CONTRACTOR TO INSTALL BACKBOXES AND DUCT MINIMUM OF 50mm FROM REBAR.

PL02/18



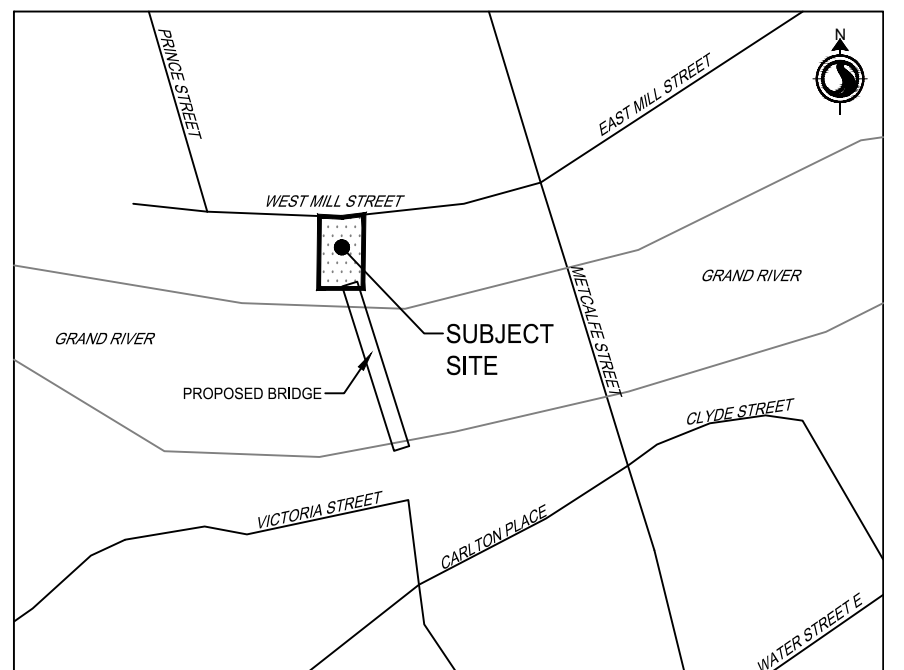
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Waterloo, ON, N2L 0A4
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Key Map NTS.



Legend

- LIMIT OF CONSTRUCTION
- EXISTING TREE TO BE REMOVED
- EXISTING VEGETATION TO BE REMOVED
- LIMIT OF ITEM TO BE REMOVED
- APPROXIMATE LIMIT OF ITEM TO BE REMOVED
- LIMIT OF ITEM TO BE MODIFIED
- EXISTING ASPHALT TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED

Notes

- CONTRACTOR TO COORDINATE WITH CENTRE WELLINGTON FOR RELOCATION / SALVATION OF EXISTING SIGNS AND WOOD ARBOUR AND IRON SCULPTURES.

Revision	By	Appd.	YY.MM.DD
ISSUED FOR CONSTRUCTION	JJ	TM	18.05.17
ISSUED FOR TENDER	JJ	TM	18.04.05
Revision	By	Appd.	YY.MM.DD
File Name: 161413629_L-DP.dwg	JJ	TM	18.04.02
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Permit-Seal



Client/Project

TOWNSHIP OF CENTRE WELLINGTON

VICTORIA STREET BRIDGE
NORTH PLAZA
ELORA, ON

Title

SITE PREPARATION & REMOVALS PLAN

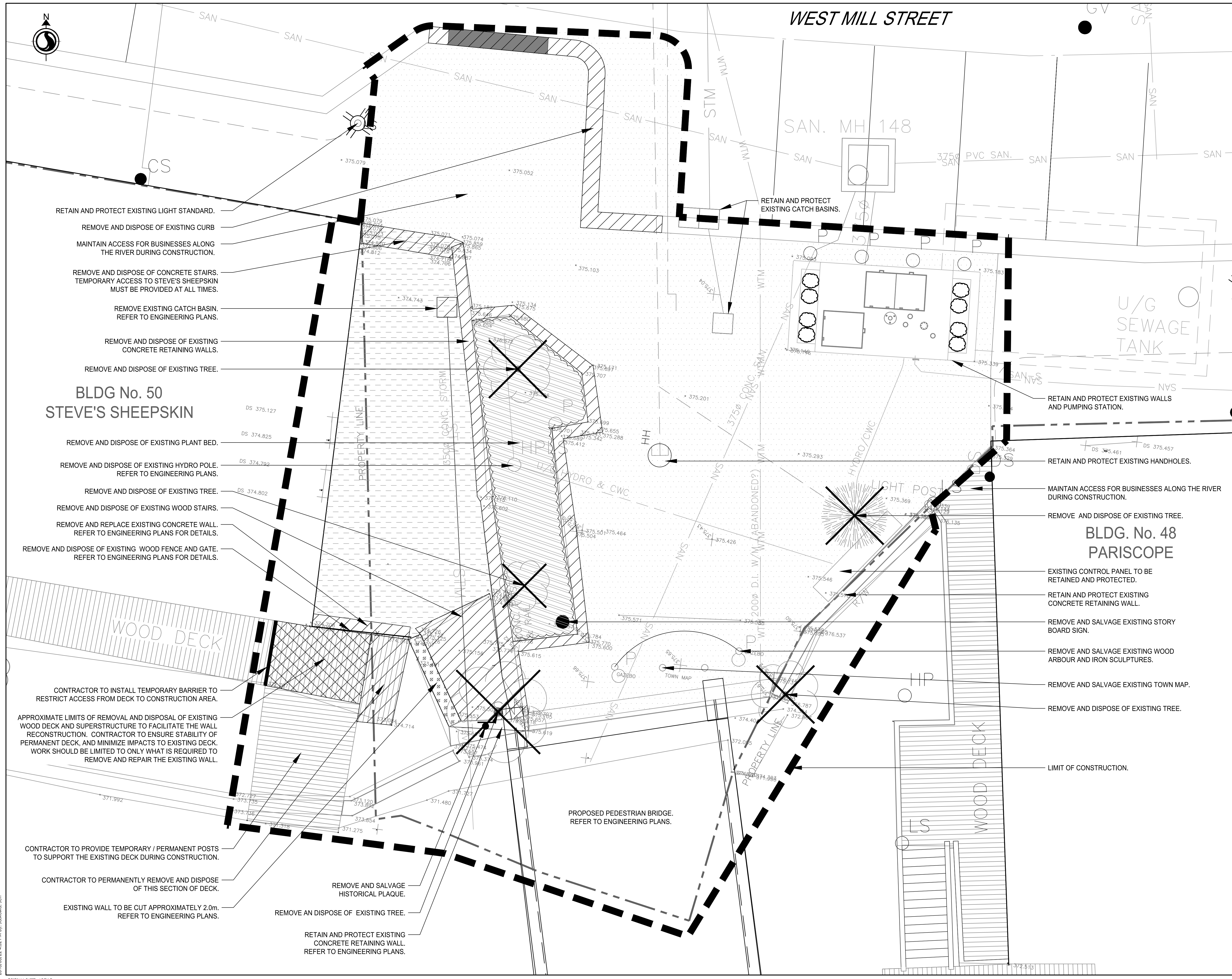
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Drawing No.	Sheet	Revision

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1 of 5

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2018/05/27 4:52 PM By: j.makko - jmf



RETAIN AND PROTECT EXISTING LIGHT STANDARD.
REMOVE AND DISPOSE OF EXISTING CURB
MAINTAIN ACCESS FOR BUSINESSES ALONG THE RIVER DURING CONSTRUCTION.

REMOVE AND DISPOSE OF CONCRETE STAIRS. TEMPORARY ACCESS TO STEVE'S SHEEPSKIN MUST BE PROVIDED AT ALL TIMES.

REMOVE EXISTING CATCH BASIN. REFER TO ENGINEERING PLANS.

REMOVE AND DISPOSE OF EXISTING CONCRETE RETAINING WALLS.

REMOVE AND DISPOSE OF EXISTING TREE.

BLDG No. 50 STEVE'S SHEEPSKIN

REMOVE AND DISPOSE OF EXISTING PLANT BED.

REMOVE AND DISPOSE OF EXISTING HYDRO POLE. REFER TO ENGINEERING PLANS.

REMOVE AND DISPOSE OF EXISTING TREE.

REMOVE AND DISPOSE OF EXISTING WOOD STAIRS.

REMOVE AND REPLACE EXISTING CONCRETE WALL. REFER TO ENGINEERING PLANS FOR DETAILS.

REMOVE AND DISPOSE OF EXISTING WOOD FENCE AND GATE. REFER TO ENGINEERING PLANS FOR DETAILS.

CONTRACTOR TO INSTALL TEMPORARY BARRIER TO RESTRICT ACCESS FROM DECK TO CONSTRUCTION AREA.

APPROXIMATE LIMITS OF REMOVAL AND DISPOSAL OF EXISTING WOOD DECK AND SUPERSTRUCTURE TO FACILITATE THE WALL RECONSTRUCTION. CONTRACTOR TO ENSURE STABILITY OF PERMANENT DECK, AND MINIMIZE IMPACTS TO EXISTING DECK. WORK SHOULD BE LIMITED TO ONLY WHAT IS REQUIRED TO REMOVE AND REPAIR THE EXISTING WALL.

CONTRACTOR TO PROVIDE TEMPORARY / PERMANENT POSTS TO SUPPORT THE EXISTING DECK DURING CONSTRUCTION.

CONTRACTOR TO PERMANENTLY REMOVE AND DISPOSE OF THIS SECTION OF DECK.

EXISTING WALL TO BE CUT APPROXIMATELY 2.0m. REFER TO ENGINEERING PLANS.

REMOVE AND SALVAGE HISTORICAL PLAQUE.

REMOVE AN DISPOSE OF EXISTING TREE.

RETAIN AND PROTECT EXISTING CONCRETE RETAINING WALL. REFER TO ENGINEERING PLANS.

RETAIN AND PROTECT EXISTING CATCH BASINS.

RETAIN AND PROTECT EXISTING WALLS AND PUMPING STATION.

RETAIN AND PROTECT EXISTING HANDHOLES.

MAINTAIN ACCESS FOR BUSINESSES ALONG THE RIVER DURING CONSTRUCTION.

REMOVE AND DISPOSE OF EXISTING TREE.

BLDG. No. 48 PARISCOPE

EXISTING CONTROL PANEL TO BE RETAINED AND PROTECTED.

RETAIN AND PROTECT EXISTING CONCRETE RETAINING WALL.

REMOVE AND SALVAGE EXISTING STORY BOARD SIGN.

REMOVE AND SALVAGE EXISTING WOOD ARBOUR AND IRON SCULPTURES.

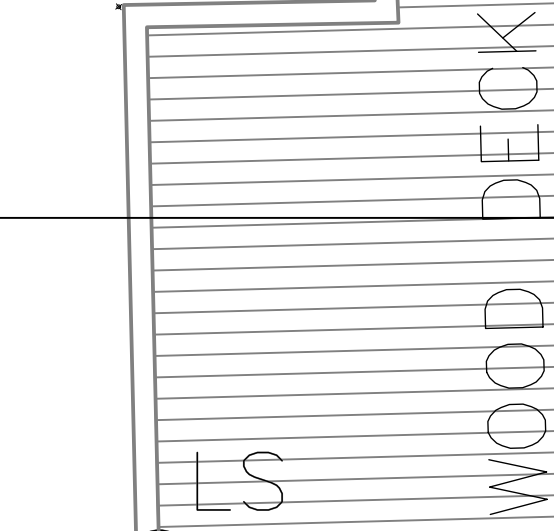
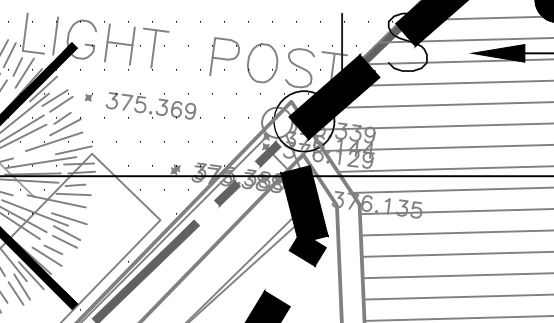
REMOVE AND SALVAGE EXISTING TOWN MAP.

REMOVE AND DISPOSE OF EXISTING TREE.

LIMIT OF CONSTRUCTION.

PROPOSED PEDESTRIAN BRIDGE. REFER TO ENGINEERING PLANS.

U/G SEWAGE TANK



WOOD DECK

WOOD DECK

WOOD DECK

BLDG No. 50 STEVE'S SHEEPSKIN

BLDG. No. 48 PARISCOPE

SAN. MH 148

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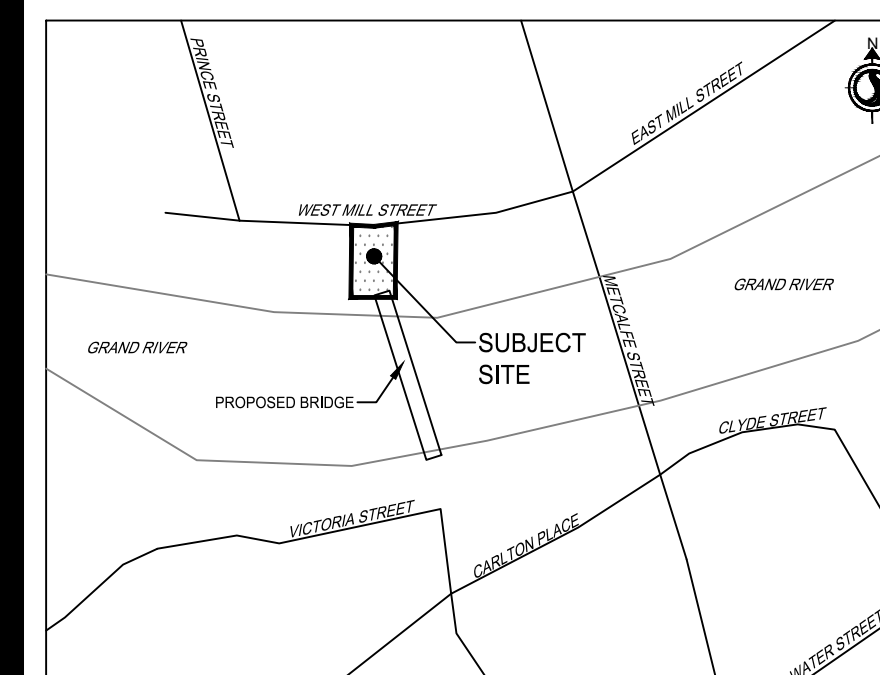
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Legend

- LIMIT OF CONSTRUCTION
- PROPOSED PEBBLE GREY COLOURED CONCRETE
- PROPOSED SLATE COLOURED CONCRETE BANDING
- PROPOSED PLANTING BED
- PROPOSED HANDRAIL
- PROPOSED DECORATIVE FENCING
- PROPOSED WOODEN FENCE

ISSUED FOR CONSTRUCTION	JJ	TM	18.05.17
ISSUED FOR TENDER	JJ	TM	18.04.05
Revision	By	Appd.	YY.MM.DD
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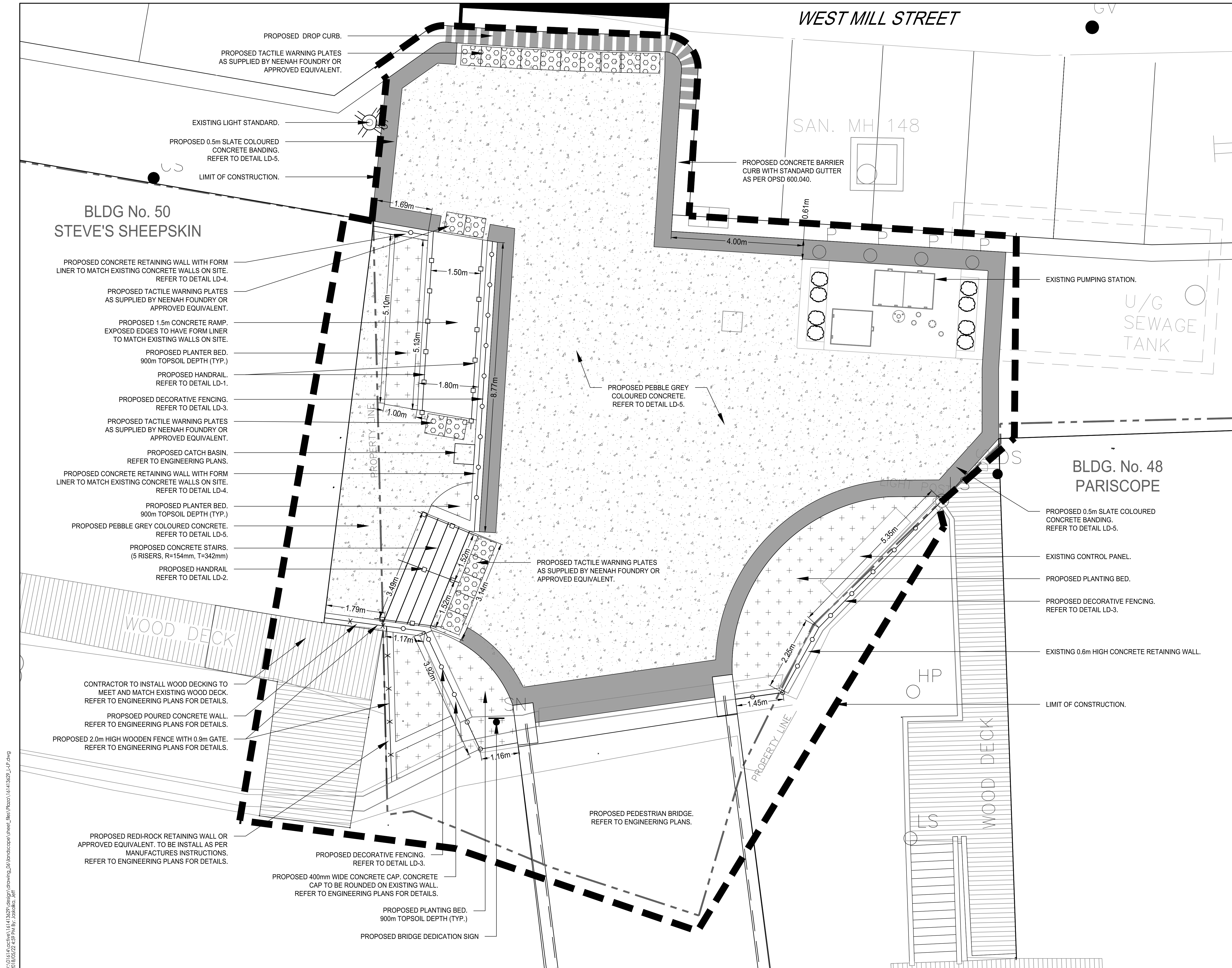
Client/Project
TOWNSHIP OF CENTRE WELLINGTON

VICTORIA STREET BRIDGE
NORTH PLAZA
ELORA, ON

Title

LAYOUT PLAN

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Drawing No.	Sheet	Revision



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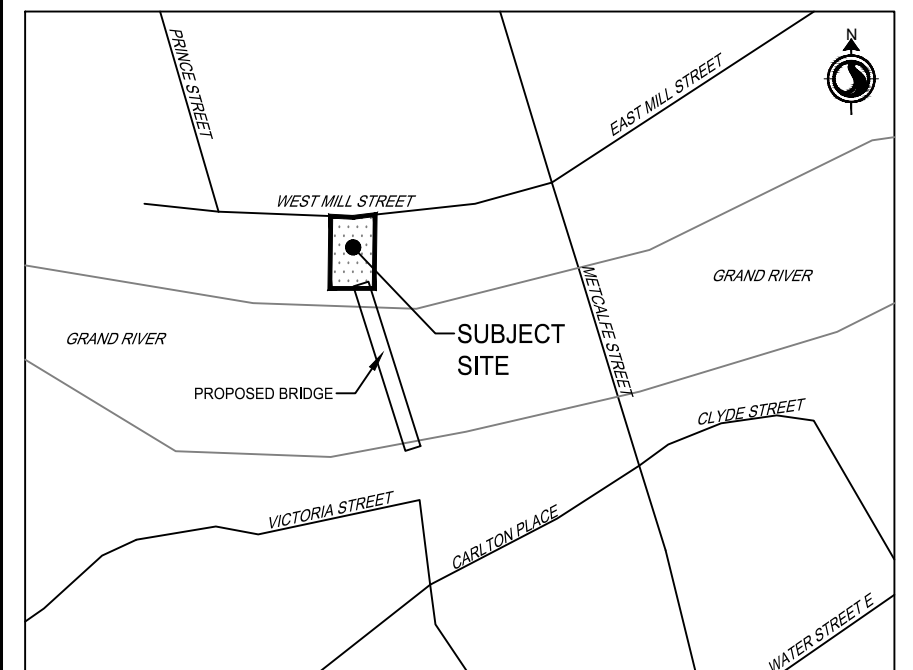
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Key Map NTS.



Legend

- LIMIT OF CONSTRUCTION
- PROPOSED PEBBLE GREY COLOURED CONCRETE
- PROPOSED SLATE COLOURED CONCRETE BANDING
- PROPOSED/EXISTING CONCRETE RETAINING WALL
- PROPOSED PLANTING BED
- PROPOSED HANDRAIL
- PROPOSED DECORATIVE FENCING
- PROPOSED WOODEN FENCE

BLDG No. 50
STEVE'S SHEEPSKIN

BLDG No. 48
PARISCOPE

ISSUED FOR CONSTRUCTION	JJ	TM	18.05.17
ISSUED FOR TENDER	JJ	TM	18.04.05
Revision	By	Appd.	YY.MM.DD
File Name: 161413629-1-GP.dwg	JJ	TM	18.04.02
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			YY.MM.DD

Permit-Seal



Client/Project
TOWNSHIP OF CENTRE WELLINGTON

VICTORIA STREET BRIDGE
NORTH PLAZA
ELORA, ON

Title

GRADING PLAN

Project No. 161413629	Scale 1:50	Sheet 3 of 5	Revision 0
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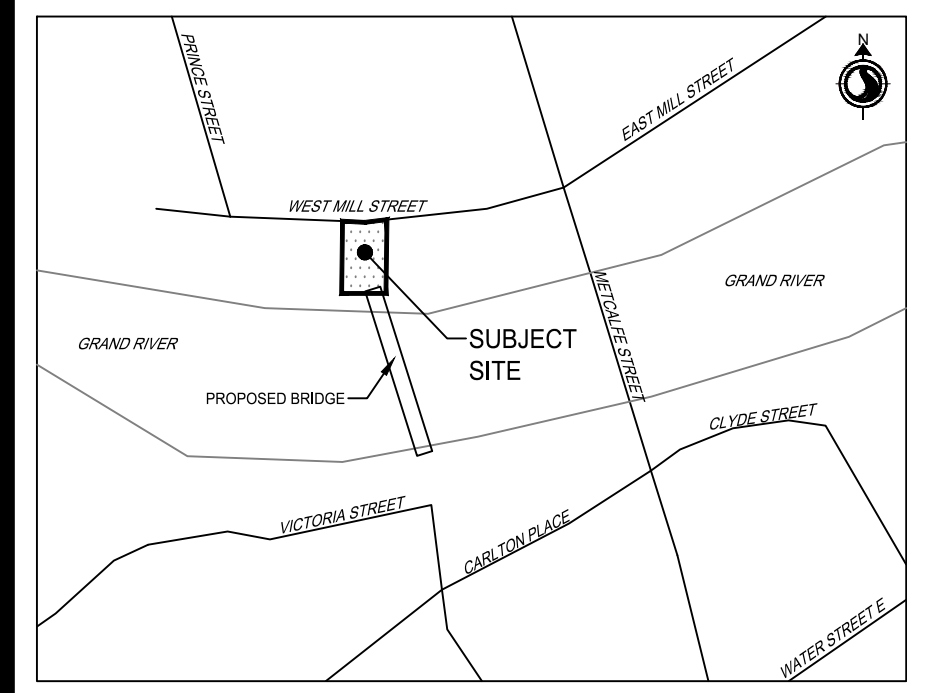
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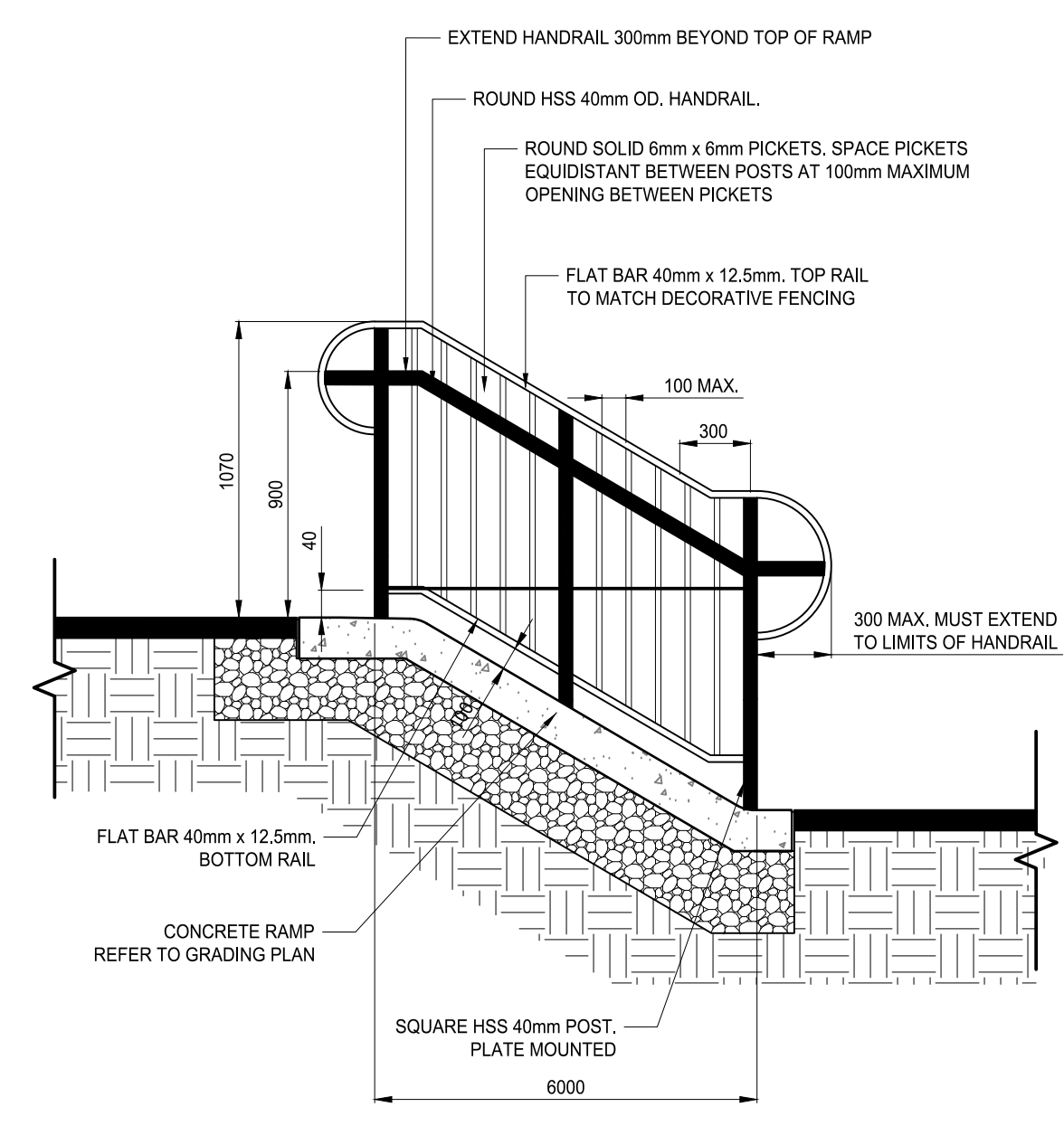
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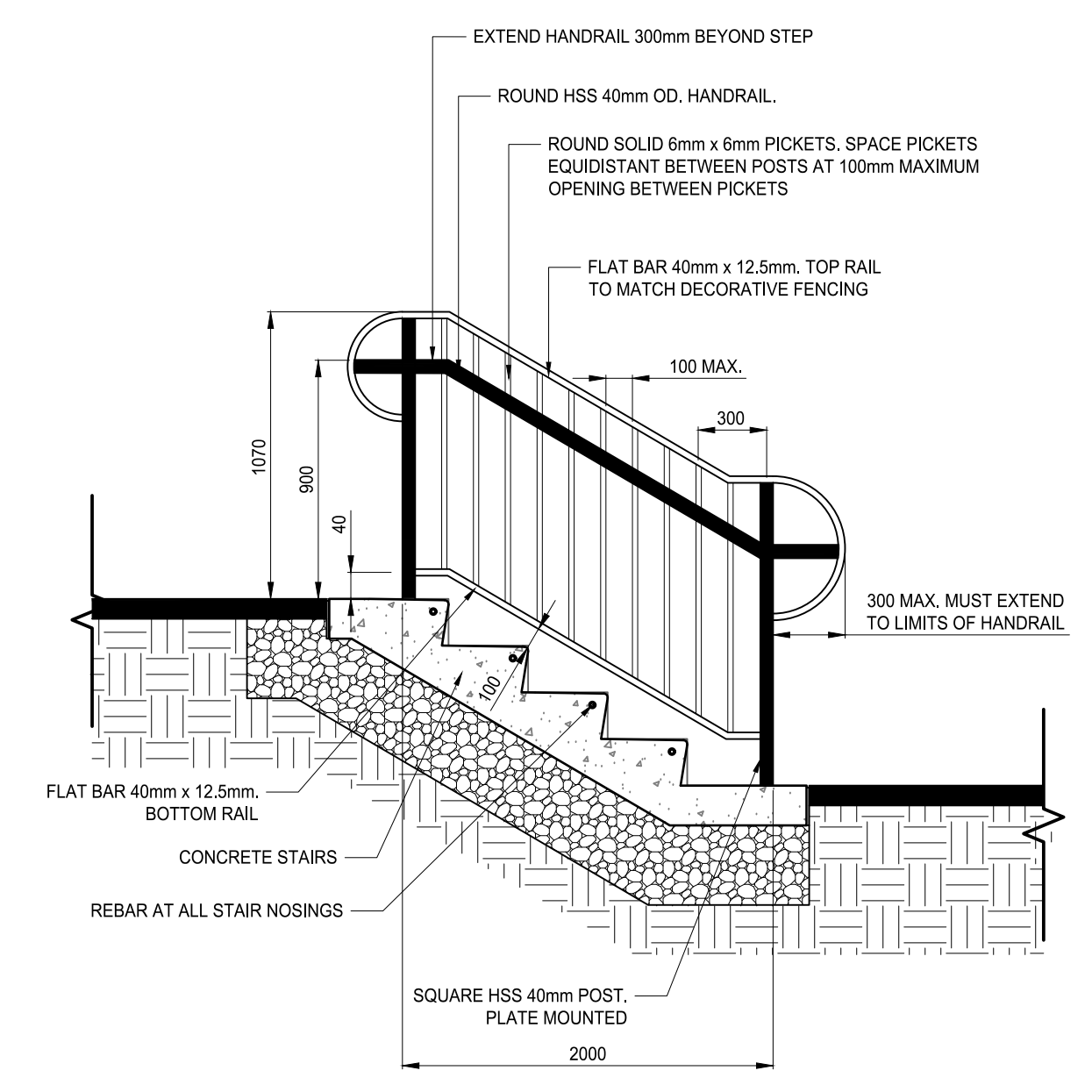
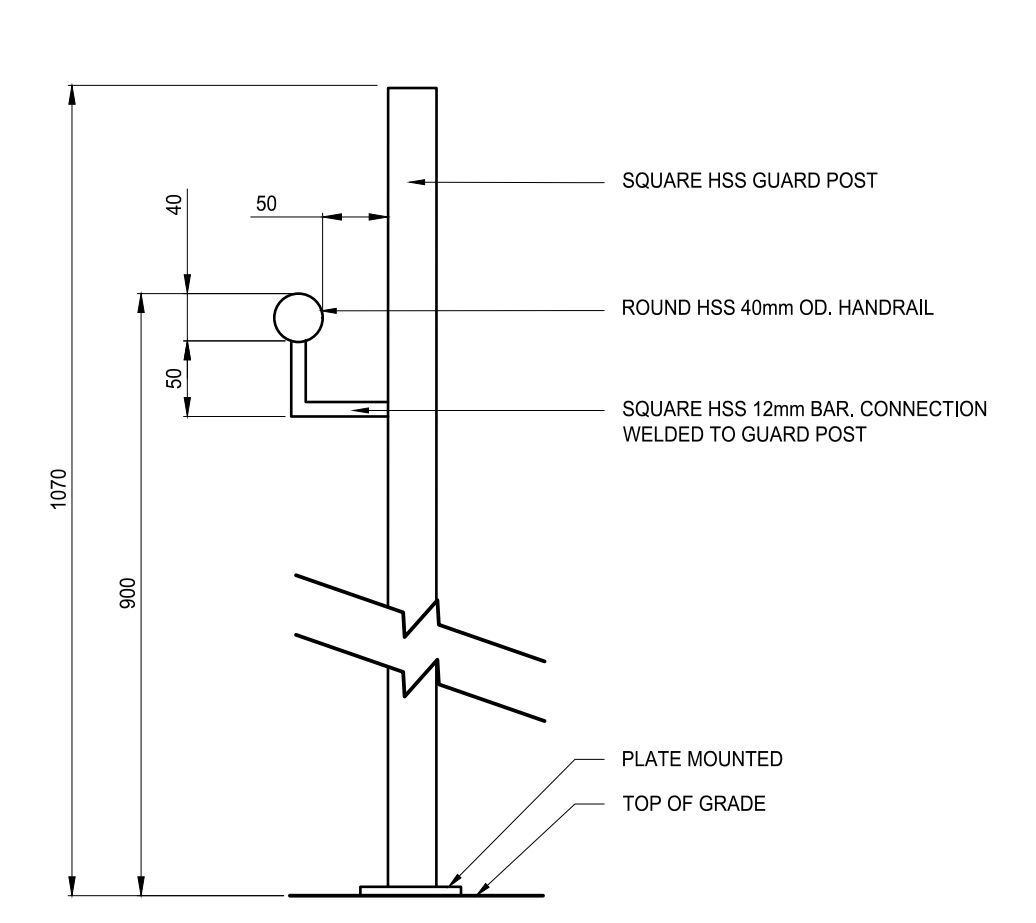
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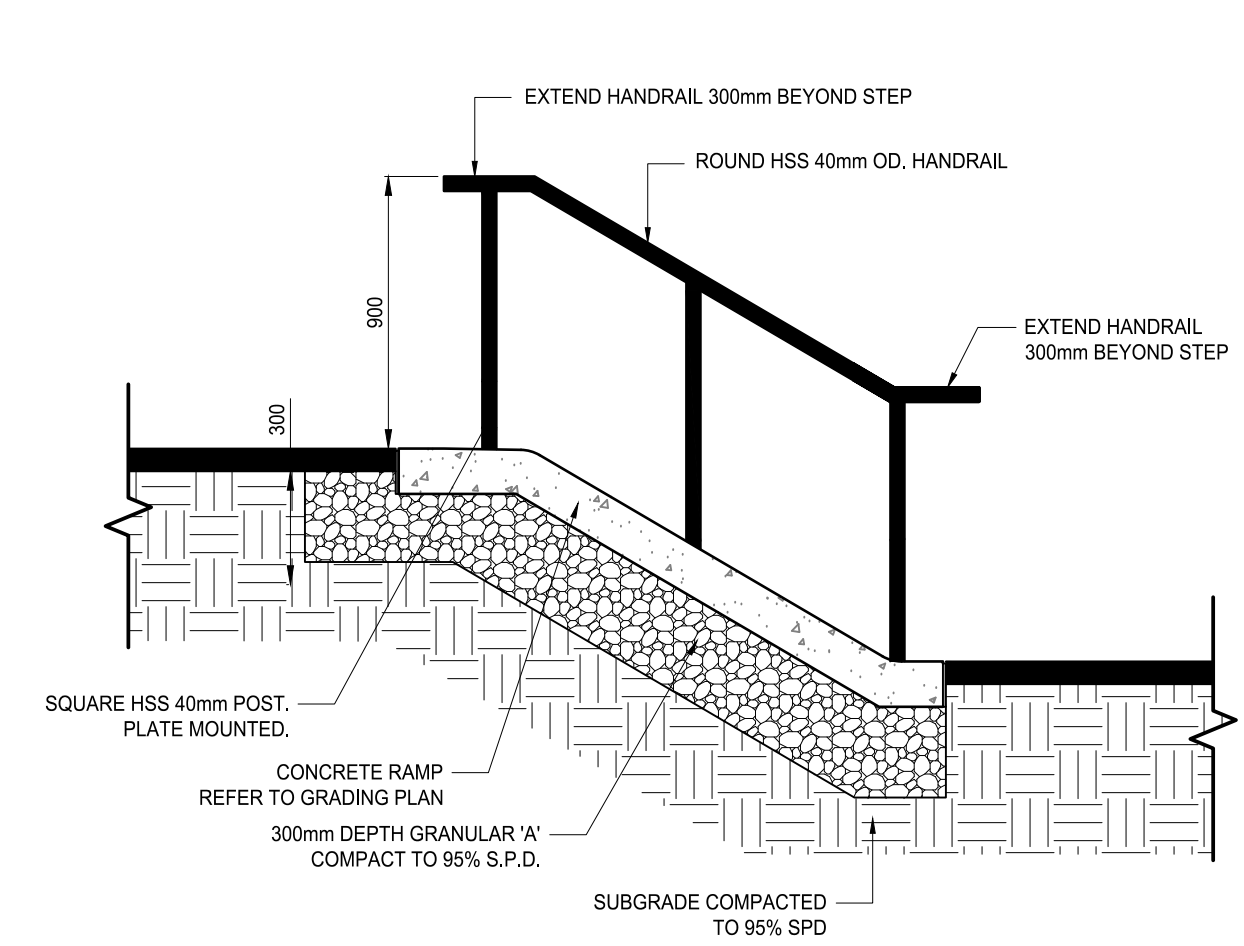
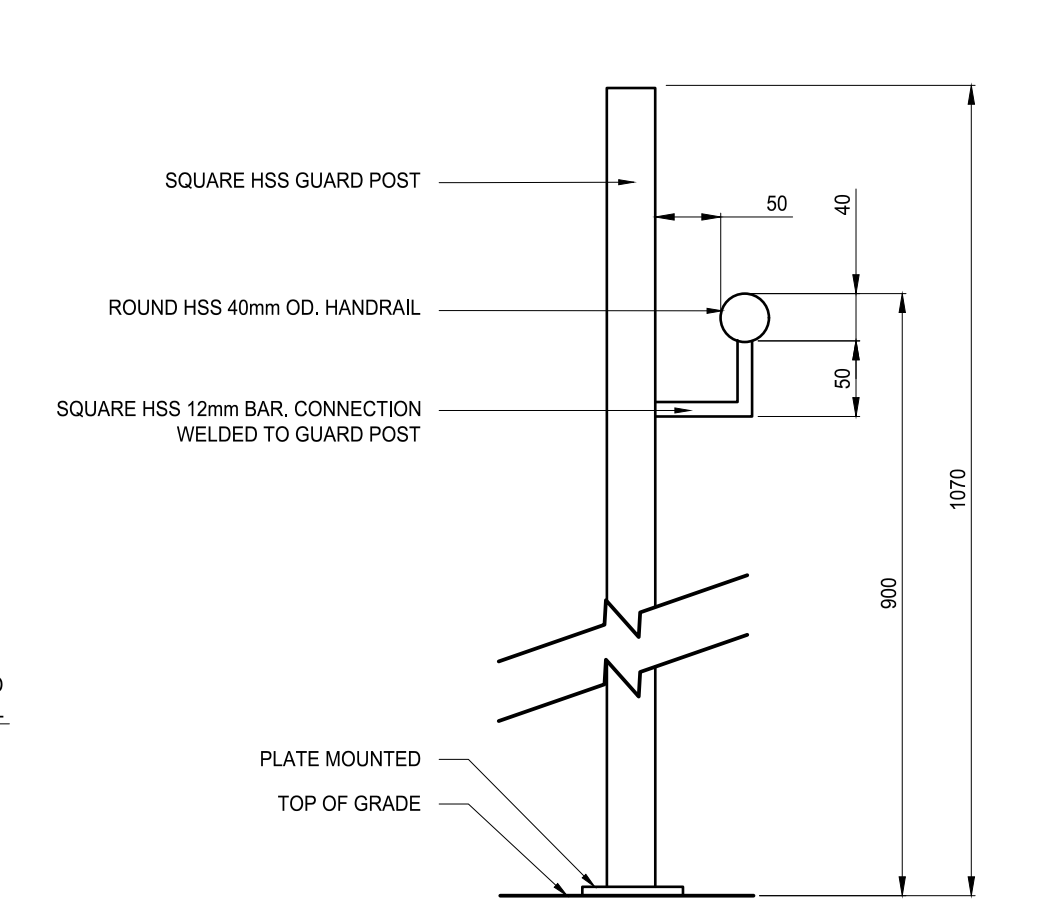
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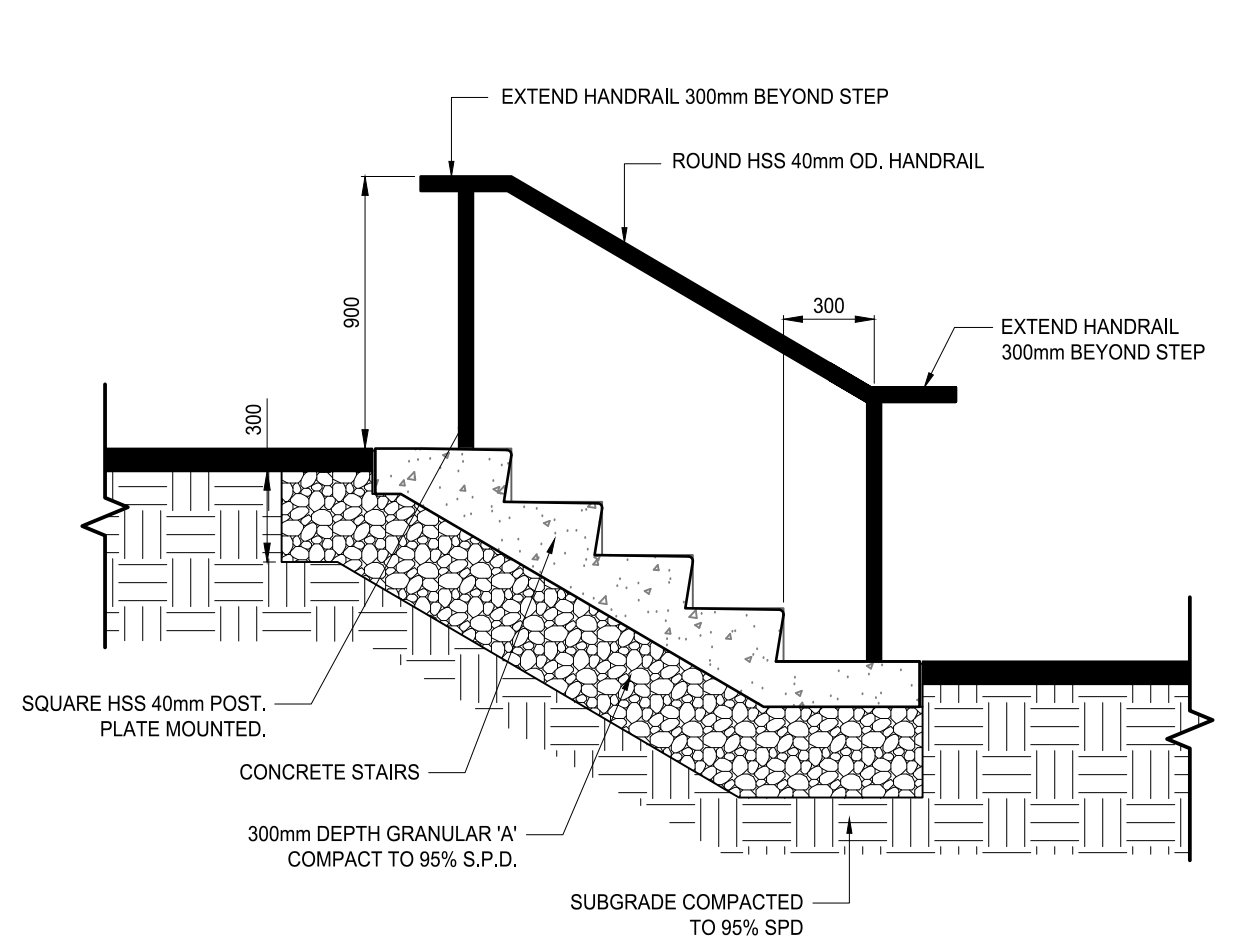
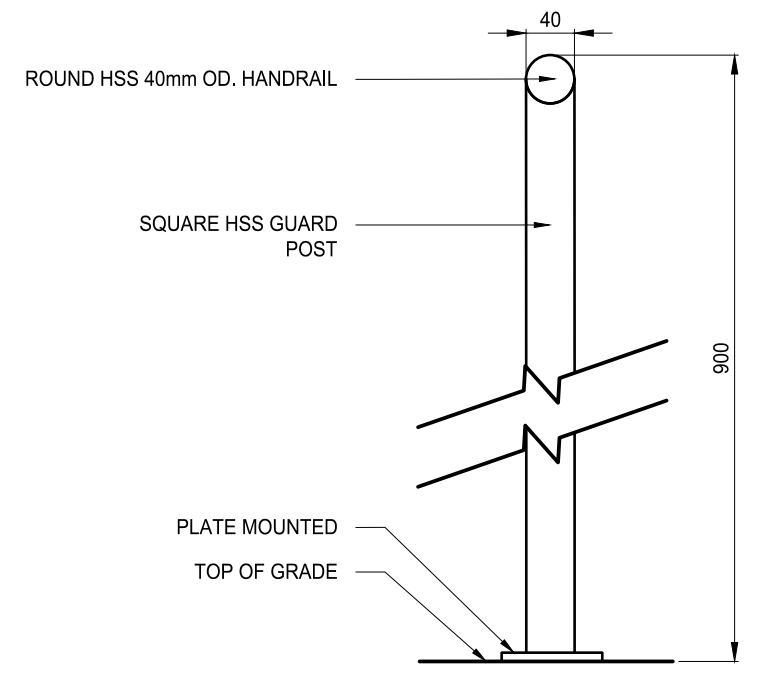
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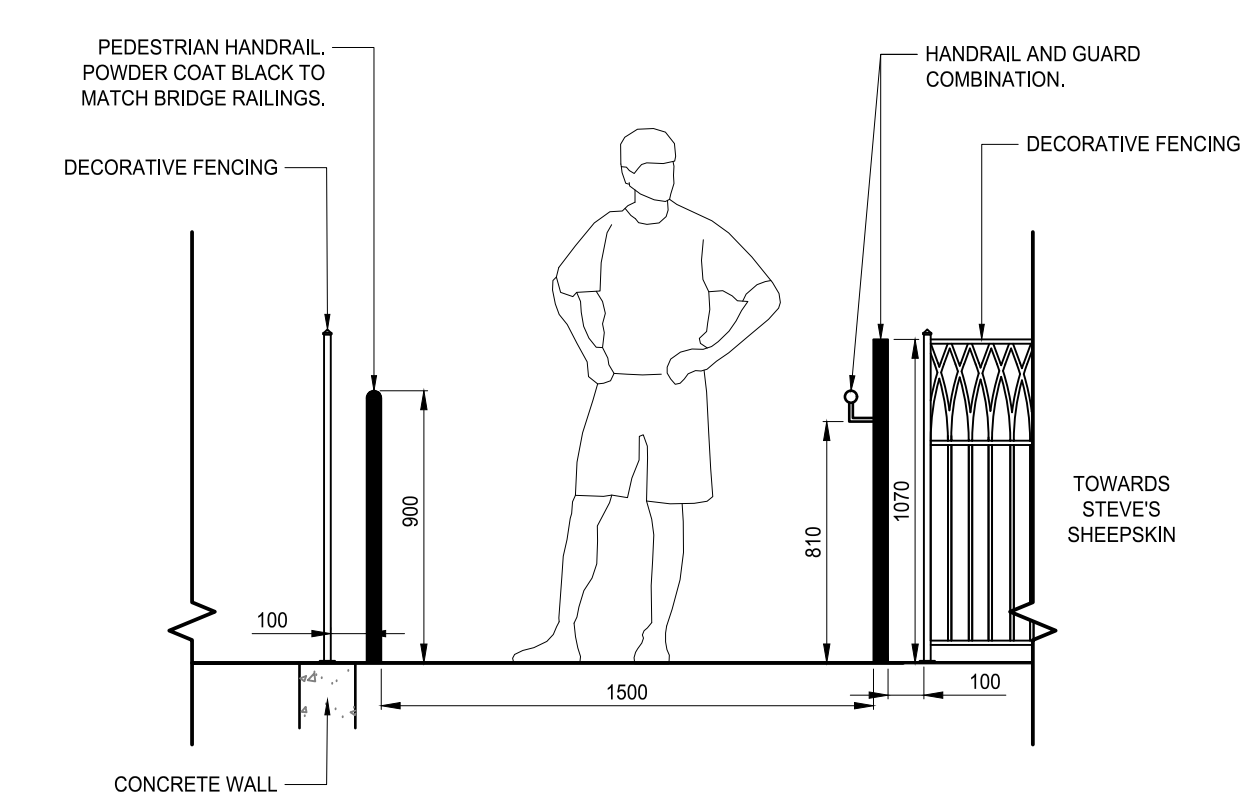
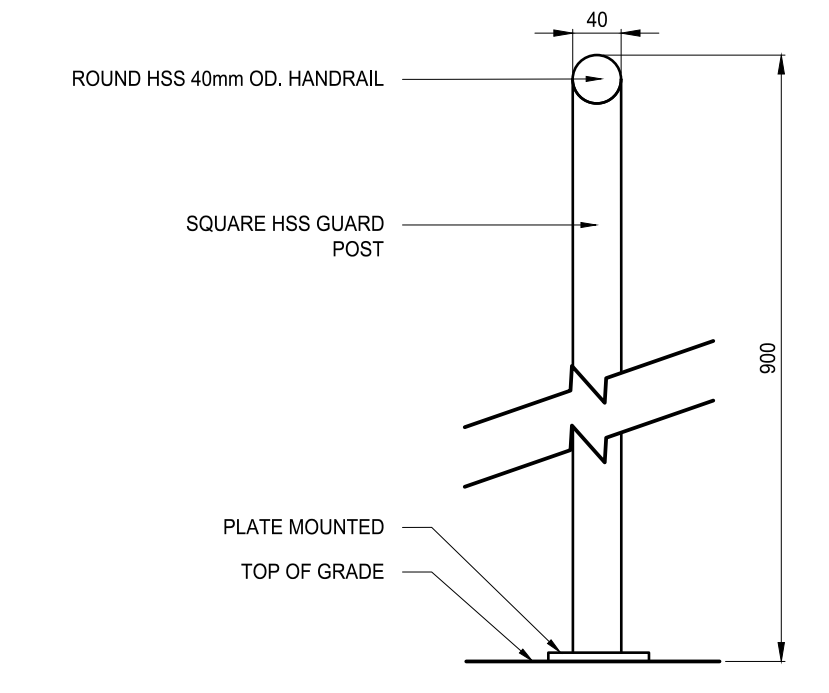
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CENTRE HANDRAIL DETAIL

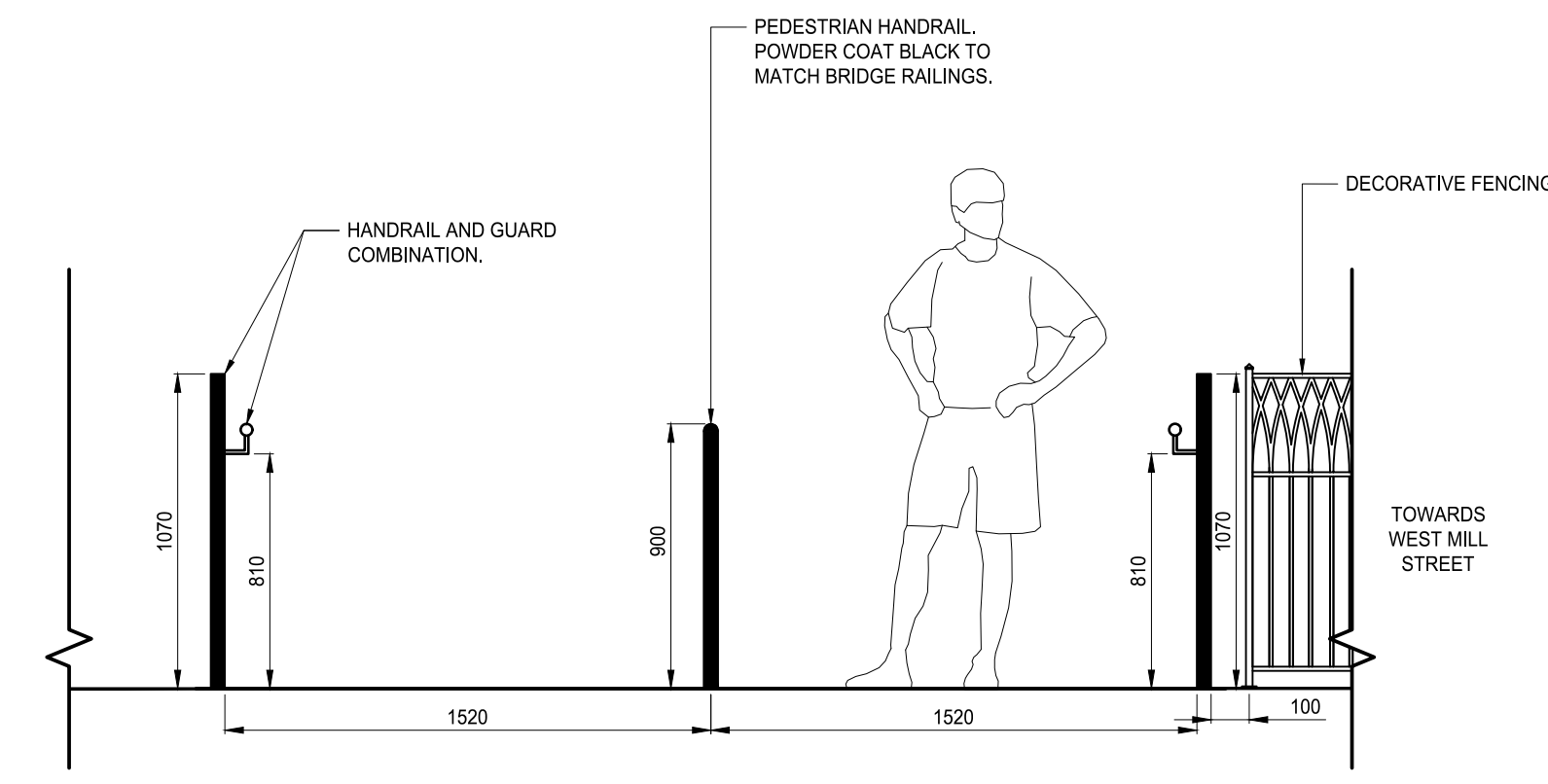


CENTRE HANDRAIL DETAIL



HANDRAIL CROSS SECTION (TOP OF RAMP)

NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.



HANDRAIL CROSS SECTION (TOP OF STAIRS)

NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

ISSUED FOR CONSTRUCTION	JJ	TM	18.05.17
ISSUED FOR TENDER	JJ	TM	18.04.05
Revision	By	Appd.	YY.MM.DD
File Name: 161413629_L-D1.dwg	JJ	TM	18.04.02
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Client/Project
TOWNSHIP OF CENTRE WELLINGTON

VICTORIA STREET BRIDGE
NORTH PLAZA
ELORA, ON

Title

DETAILS AND NOTES

Project No.	Scale	
161413629	AS NOTED	
Drawing No.	Sheet	Revision
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L-500 4 of 5 0

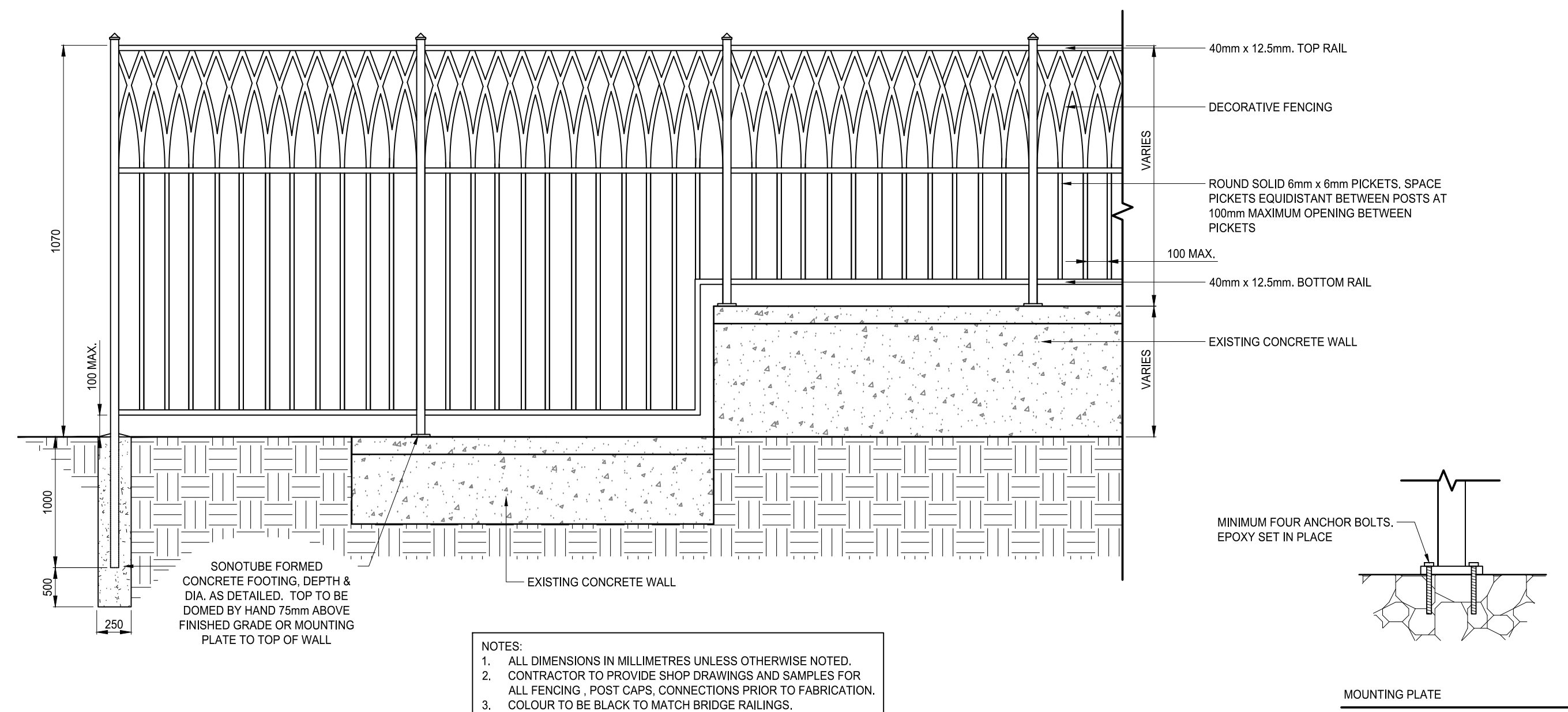
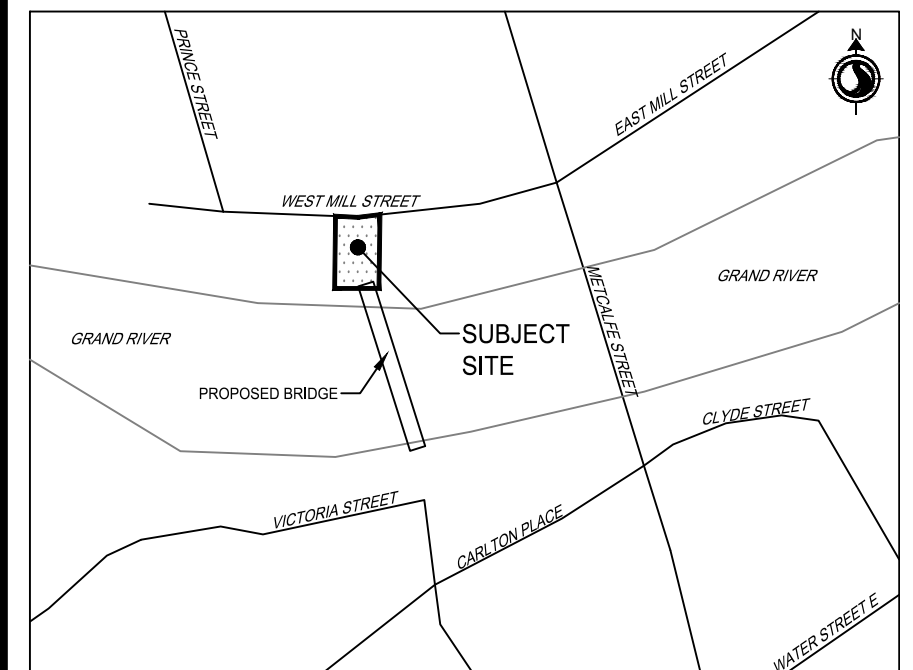
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LD 1

900mm HANDRAIL AND CONCRETE RAMP
N.T.S.

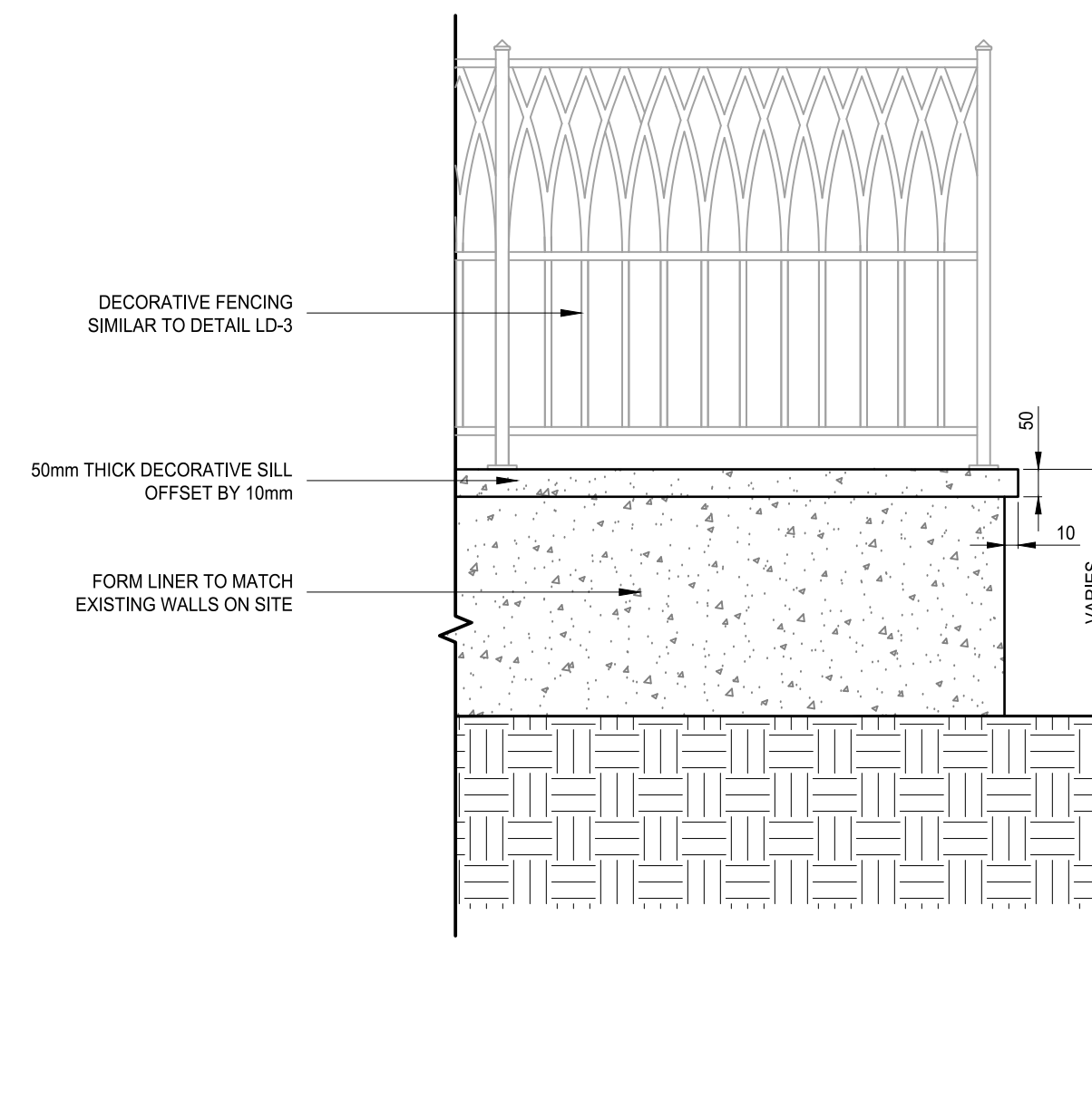
LD 2

900mm HANDRAIL AND CONCRETE STAIRS
N.T.S.

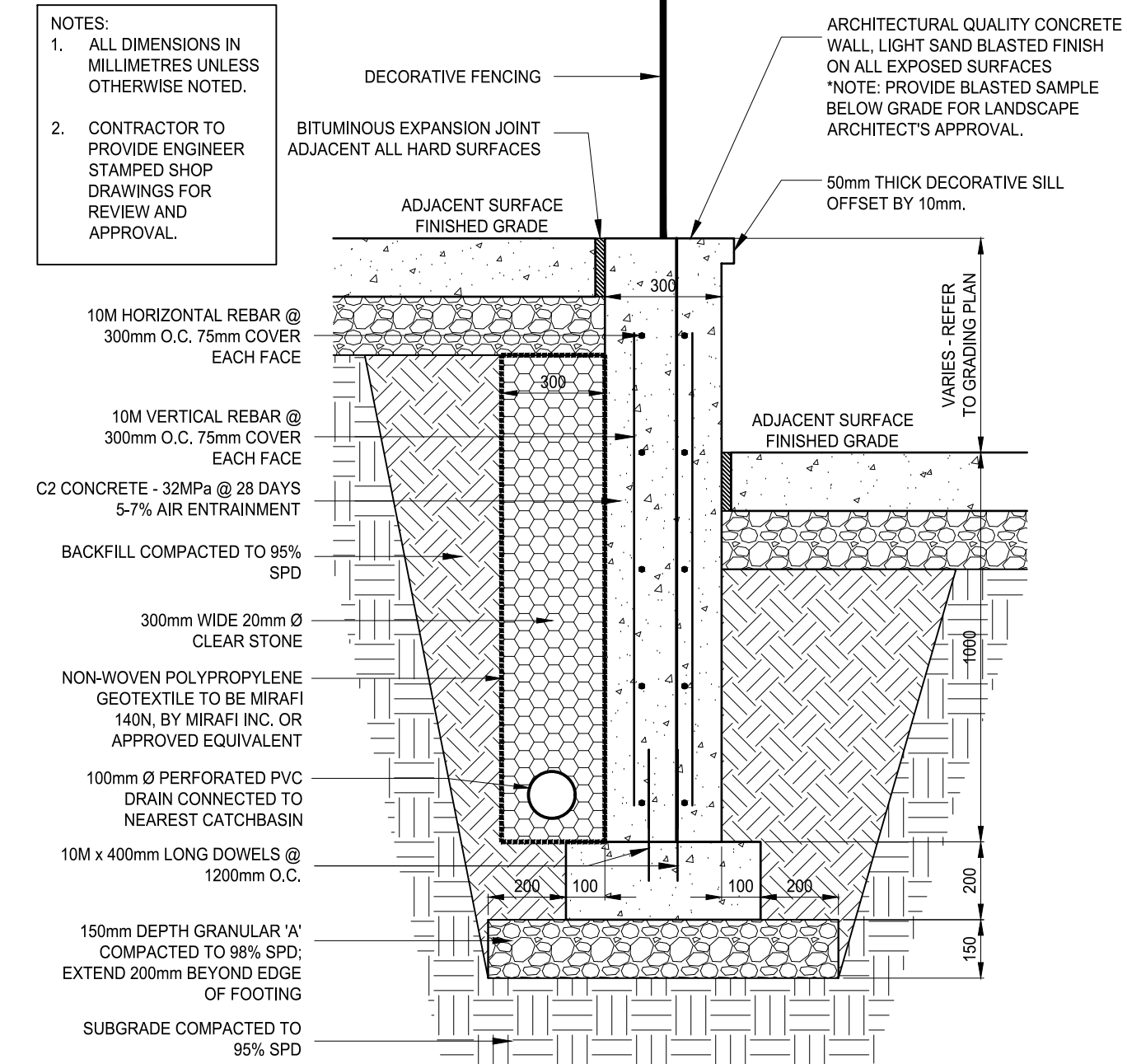


NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SAMPLES FOR ALL FENCING, POST CAPS, CONNECTIONS PRIOR TO FABRICATION.
3. COLOUR TO BE BLACK TO MATCH BRIDGE RAILINGS.

LD 3 1070mm DECORATIVE FENCING AND CONCRETE RETAINING WALL N.T.S.



LD 4 CONCRETE RETAINING WALL N.T.S.



NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO PROVIDE ENGINEER STAMPED SHOP DRAWINGS FOR REVIEW AND APPROVAL.

ARCHITECTURAL QUALITY CONCRETE WALL LIGHT SAND BLASTED FINISH ON ALL EXPOSED SURFACES
NOTE: PROVIDE BLASTED SAMPLE BELOW GRADE FOR LANDSCAPE ARCHITECT'S APPROVAL.

50mm THICK DECORATIVE SILL OFFSET BY 10mm.

VARIES - REFER TO ORIGINAL PLAN

ADJACENT SURFACE FINISHED GRADE

ADJACENT SURFACE FINISHED GRADE

ADJACENT SURFACE FINISHED GRADE

ADJACENT SURFACE FINISHED GRADE

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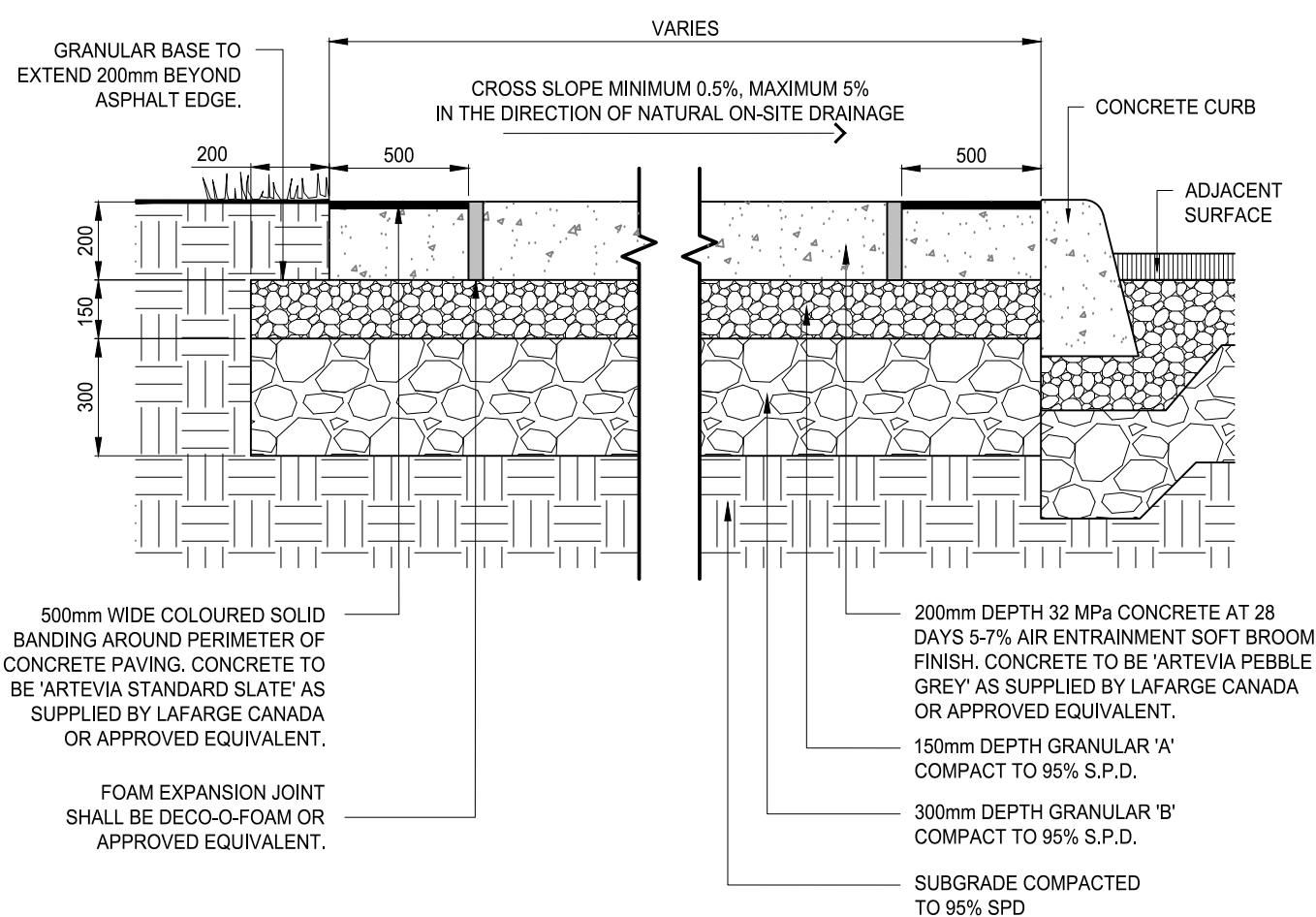
ADJACENT SURFACE FINISHED GRADE

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ADJACENT SURFACE FINISHED GRADE



NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. ENSURE POSITIVE DRAINAGE ON ASPHALT ROADWAYS.
3. SURFACE WATER MUST NOT BE COLLECTED ON ROADWAYS. POSITIVE DRAINAGE FROM PATHWAY MUST BE GENERATED AND INTEGRATED INTO OVERALL DRAINAGE PLAN.
4. CONTRACTOR TO SUPPLY SAMPLES OF COLOURS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

LD 5 CONCRETE PAVING/ INTEGRALLY COLOURED CONCRETE PAVING N.T.S.

Revision	By	Appd.	YY.MM.DD
ISSUED FOR CONSTRUCTION	JJ	TM	18.05.17
ISSUED FOR TENDER	JJ	TM	18.04.05
File Name: 161413629_L-D1.dwg	JJ	TM	18.04.02
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Client/Project
TOWNSHIP OF CENTRE WELLINGTON

VICTORIA STREET BRIDGE
NORTH PLAZA
ELORA, ON

Title

DETAILS AND NOTES

Project No.	Scale	
161413629	AS NOTED	
Drawing No.	Sheet	Revision

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