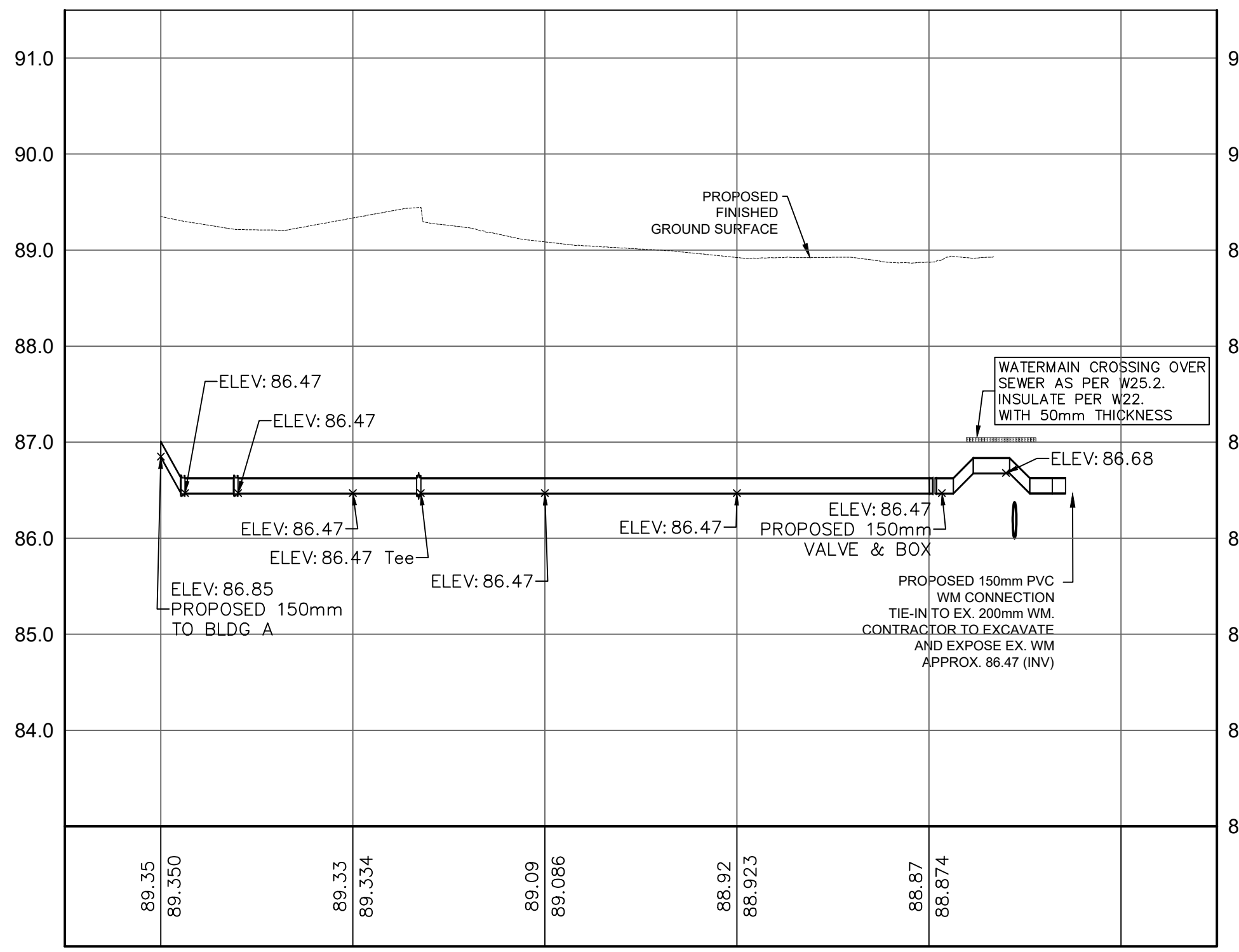
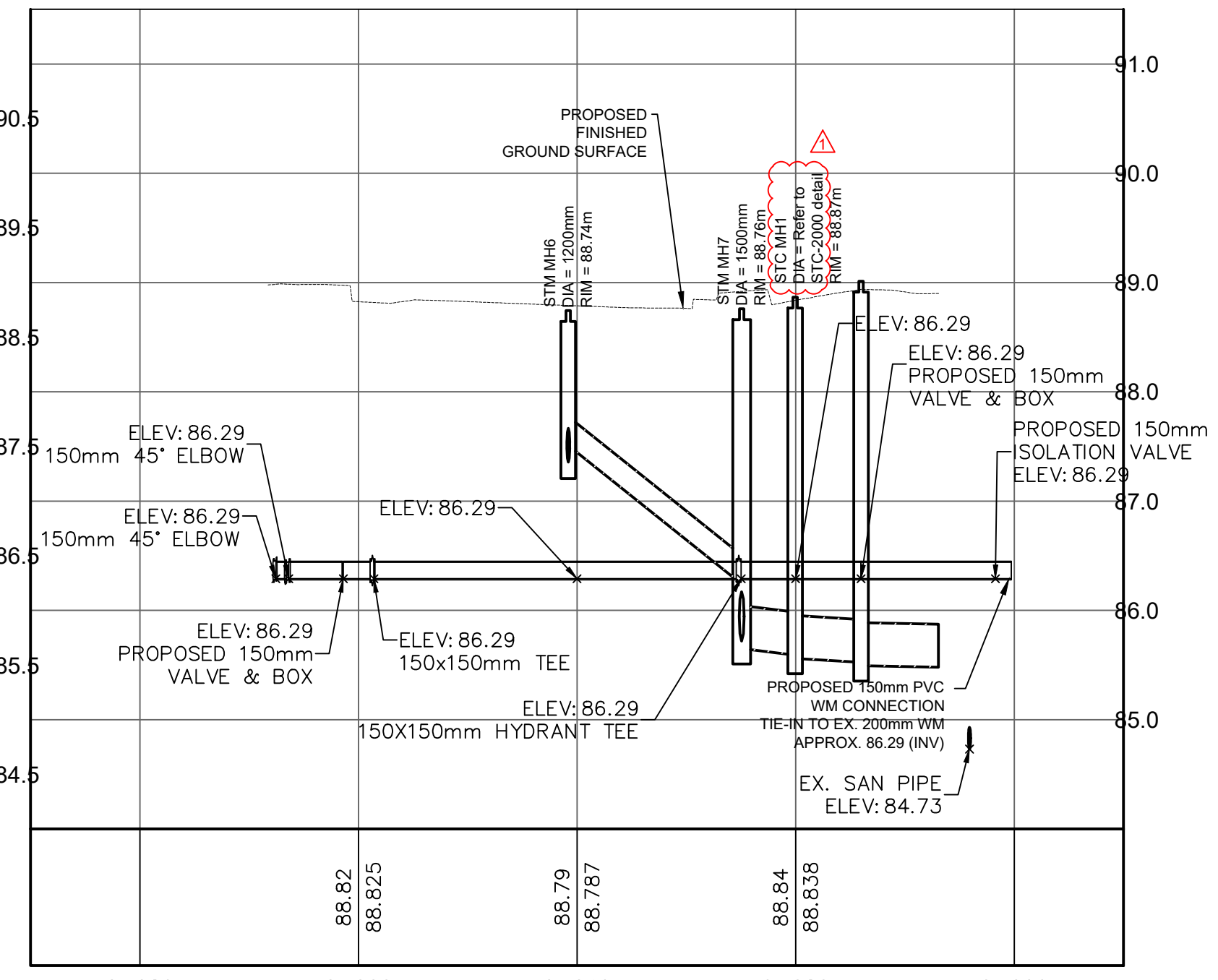


TABLE CROSSING					
CROSSING NO.	LOWER PIPE (INVERT)	LOWER PIPE (OBVERT)	HIGHER PIPE (INVERT)	HIGHER PIPE (OBVERT)	DISTANCE (m)
X1	86.47 (WTR)	86.62 (WTR)	87.55 (STM)	87.85 (STM)	0.93
X2	86.45 (WTR)	86.60 (WTR)	87.77 (STM)	88.07 (STM)	1.17
X3	85.99 (EX. STM)	86.36 (EX. STM)	86.71 (WTR)	86.86 (WTR)	0.35
X4	85.22 (EX. SAN)	85.47 (EX. SAN)	86.47 (WTR)	86.62 (WTR)	1.00
X5	84.72 (EX. SAN)	84.97 (EX. SAN)	86.29 (WTR)	86.44 (WTR)	1.32
X6	84.63 (SAN)	84.83 (SAN)	85.43 (EX. STM)	86.03 (EX. STM)	0.60
X7	86.29 (WTR)	86.44 (WTR)	87.46 (STM)	87.71 (STM)	1.02
X8	86.36 (WTR)	86.51 (WTR)	87.03 (STM)	87.33 (STM)	0.52
X9	86.38 (WTR)	86.53 (WTR)	87.55 (STM)	87.75 (STM)	1.02
X10	87.04 (STM)	87.34 (STM)	87.64 (STM)	87.84 (STM)	0.30



PROPOSED WATERMAIN NORTH CONNECTION FOR BLDG A & B



PROPOSED WATERMAIN SOUTH CONNECTION FOR BLDG C

ORIFICE CONTROL			
MANHOLE NO.	T/G	INVERT AT OUTLET	CENTERLINE ORIFICE ELEVATION
STM MH3	88.82	85.978	86.04
STM MH7	88.730	85.660	85.720

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No.	DESCRIPTION	DATE
1	FIRST SUBMISSION	2021-05-20
2	SECOND SUBMISSION	2021-08-24
3	BUILDING PERMIT SUBMISSION	2021-09-07
4	TENDER SUBMISSION	2021-10-05
5	TENDER RESUBMISSION	2021-11-03
6	TENDER RESUBMISSION	2021-11-09
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-19
8	THIRD SUBMISSION	2021-11-23

KEY PLAN

BAREILLE-SNOW

HEAL-CK

MICHAEL STOGUA

LEGEND:

- PROPOSED SANITARY
- PROPOSED STORM
- PROPOSED WATERMAIN
- PROPOSED STORM MH
- PROPOSED CATCHBASIN
- PROPOSED OGS

PROFESSIONAL ENGINEER

November 24, 2023

W.L. THOMAS

100528014

PROVINCE OF ONTARIO

PRIME CONSULTANT

IBI GROUP

Unit 110 - 650 Dufferin Avenue  
Kingston ON K7M 8N7, Canada  
Tel 613 531 4440 fax 613 531 7789  
ibi@ibi.com

PROJECT

MIKINAK REDEVELOPMENT

715 MIKINAK ROAD, OTTAWA, ON  
CANADA K1K 2G8

PROJECT NO:

125599

SCALE:

AS SHOWN

DRAWN BY:

NA

CHECKED BY:

BT

PROJECT MGR:

CW

APPROVED BY:

BT

SHEET TITLE

SERVICING PLAN

SHEET NUMBER

CU1101

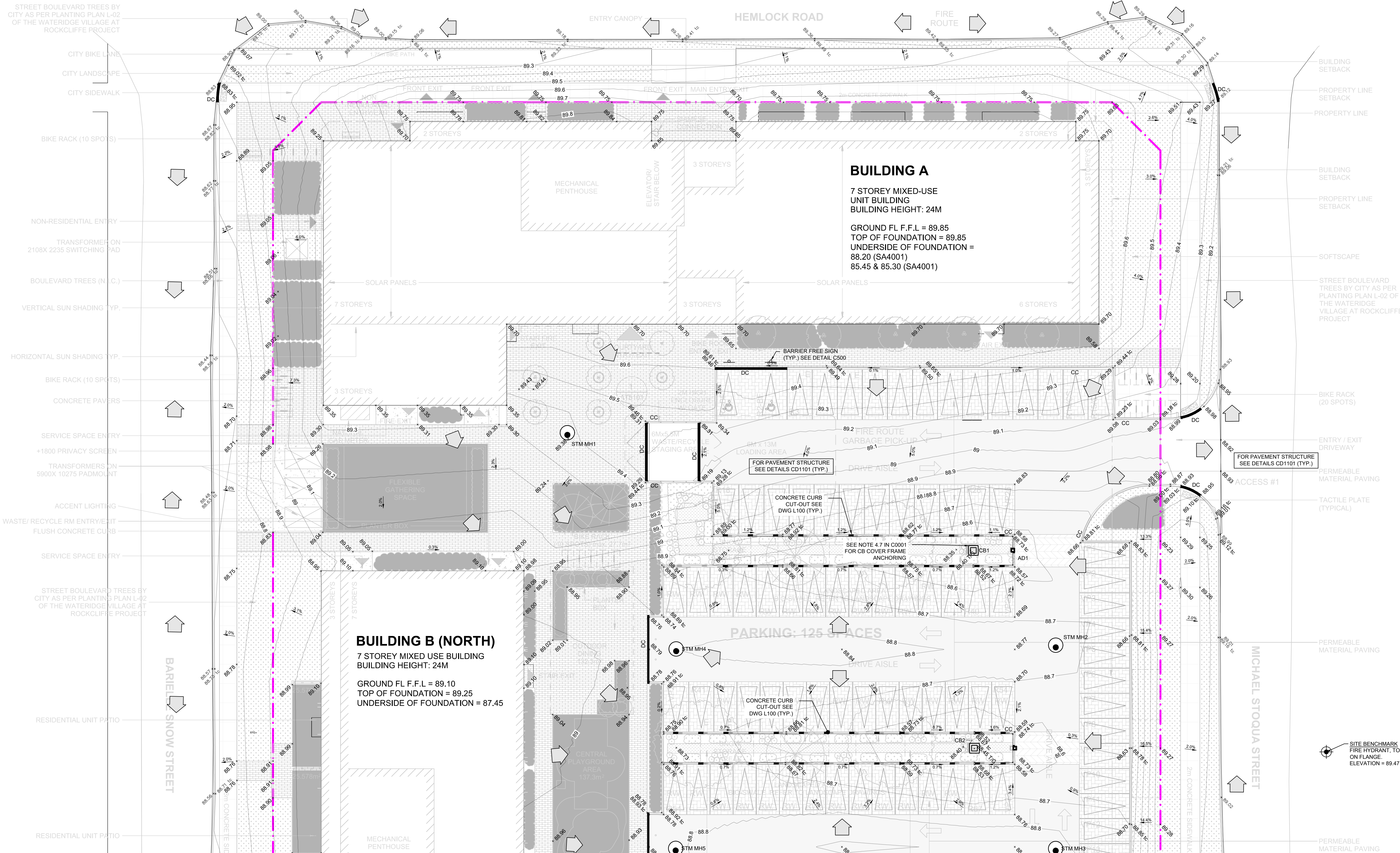
ISSUE

8

FOR REVIEW

NOTE:  
PRIOR TO CONSTRUCTION REFER TO SHEET DETAIL II - CD1102  
FOR REFERENCE OF PIPE SEGMENTS REQUIRING INSULATION.





NOTE:  
ALL PROPOSED FRAME COVER FOR CB1, CB2 & CB3 SHALL BE ANCHORED DIRECTLY TO THE TOP OF THE PRE-CAST CONCRETE TOP AS PER S.P. NO. F-4070 TO PREVENT DISPLACEMENT.

SITE BENCHMARK  
FIRE HYDRANT ON TOP OF NUT OF FLANGE WITH AN ELEVATION OF 88.47, LOCATED ON MICHAEL STOUQUA STREET EAST SIDE OF ROADWAY.

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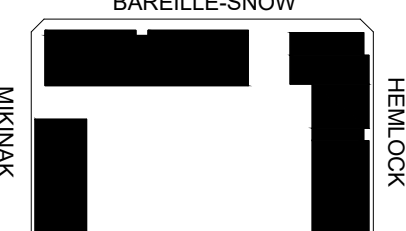
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ISSUES	DESCRIPTION	DATE
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5	TENDER RESUBMISSION	2021-11-03
6	TENDER RESUBMISSION	2021-11-09
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-19
8	THIRD SUBMISSION	2021-11-23

FOR REVIEW

KEY PLAN



BAREILLE-SNOW  
HEMLOCK  
MICHAEL STOUQUA

LEGEND:

- TRAFFIC FLOW
- PROPOSED ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- EXISTING ELEVATION
- PROPOSED SLOPE
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED CONTOUR
- DEPRESSED CONCRETE CURB
- CONCRETE BARRIER CURB PER S.C.1.1
- PROPOSED BIO-SWALE
- PROPOSED SOFTSCAPE
- PROPOSED HARDSCAPE
- PROPOSED BUILDING
- PERMEABLE PAVER
- ASPHALT PAVED AREA
- WASTE PICK-UP AREA CONCRETE PAD
- CONCRETE DRIVEWAY

PROFESSIONAL ENGINEER

November 24, 2021

W. L. THOMAS  
100528014

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ibigroup.com

PROJECT

MIKINAK REDEVELOPMENT

715 MIKINAK ROAD, OTTAWA, ON  
CANADA K1K 2G8

PROJECT NO: 125599	SCALE: AS SHOWN
DRAWN BY: NA	CHECKED BY: BT
PROJECT MGR: CW	APPROVED BY: BT

SHEET TITLE

GRADING PLAN (NORTH)

SHEET NUMBER	ISSUE
CG1101	8

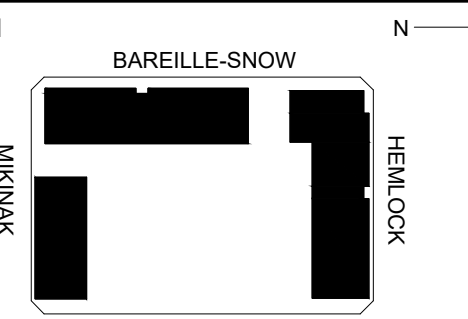
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No.	DESCRIPTION	DATE
1	FIRST SUBMISSION	2021-05-11
2	SECOND SUBMISSION	2021-08-11
3	BUILDING PERMIT SUBMISSION	2021-09-09
4	TENDER SUBMISSION	2021-10-01
5	TENDER RESUBMISSION	2021-11-01
6	TENDER RESUBMISSION	2021-11-01
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-01
8	THIRD SUBMISSION	2021-11-01

FOR REVIEW

## KEY PLAN



**LEGEND:**

- |  |                                |
|--|--------------------------------|
|  | TRAFFIC FLOW                   |
|  | PROPOSED ELEVATION             |
|  | PROPOSED TOP OF CURB ELEVATION |
|  | EXISTING ELEVATION             |
|  | PROPOSED SLOPE                 |
|  | OVERLAND FLOW                  |
|  | PROPOSED CONTOUR               |
|  | DEPRESSED CONCRETE CURB        |
|  | CONCRETE BARRIER CURB          |
|  | PER GSD 608.110                |
|  | PROPOSED BIO-SWALE             |
|  | PROPOSED SOFTSCAPE             |
|  | PROPOSED HARDSCAPE             |
|  | PROPOSED BUILDING              |
|  | PERMEABLE PAVER                |
|  | ASPHALT PAVED AREA             |
|  | WASTE PICK-UP AREA             |
|  | CONCRETE PAD                   |
|  | CONCRETE DRIVEWAY              |



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PROJECT  
MIKINAK REDEVELOPMENT

715 MIKINAK ROAD, OTTAWA, ON  
CANADA K1K 2G8

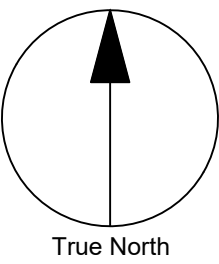
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DRAWN BY: NA	CHECKED BY: BT
PROJECT MGR: CW	APPROVED BY: BT

SHEET TITLE  
GRADING PLAN (SOUTH)

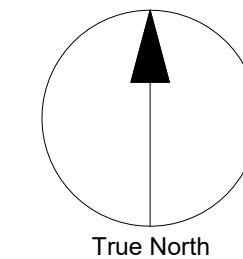
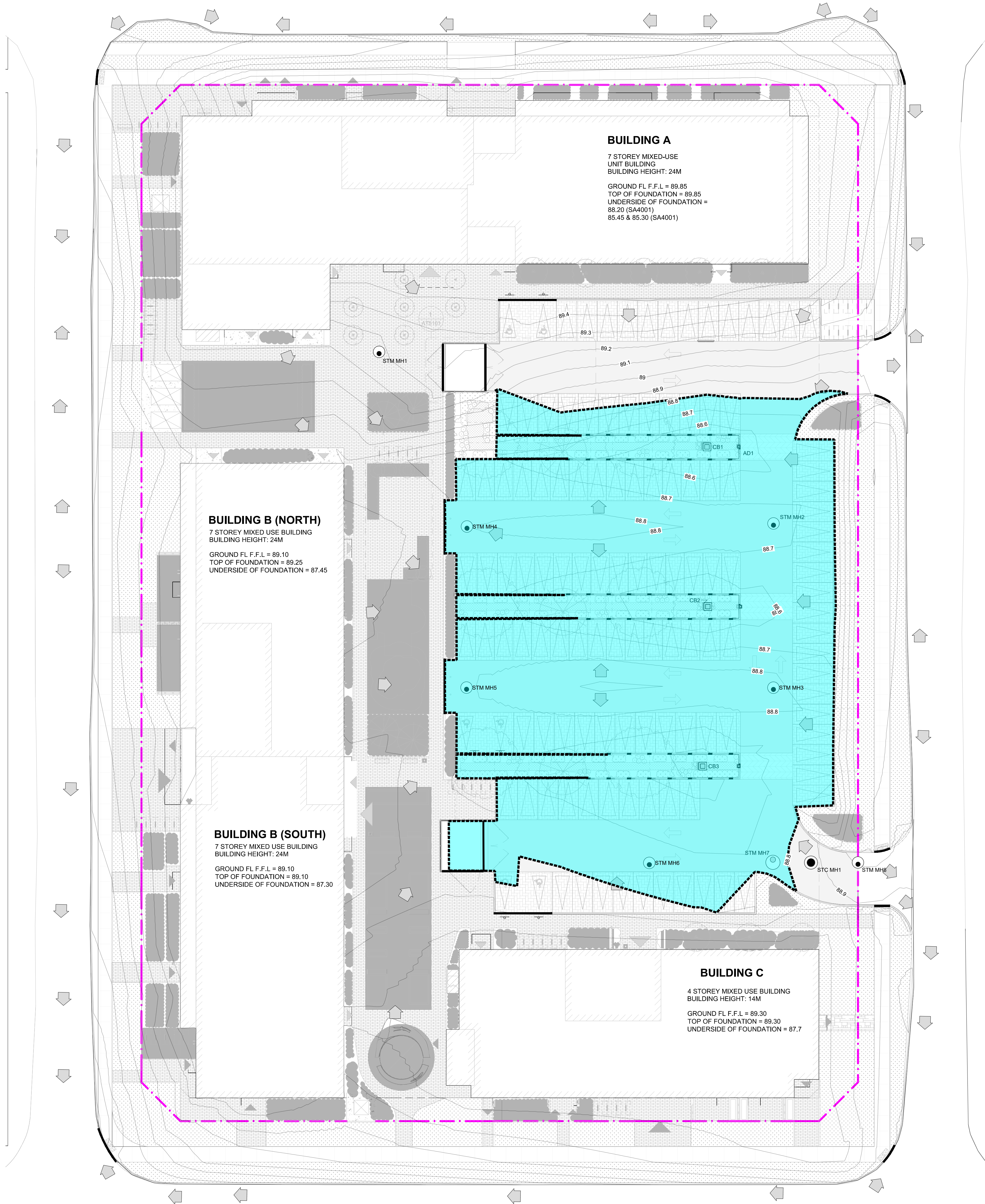
SHEET NUMBER	ISSUE
CG1102	8


**NOTE:**  
ALL PROPOSED FRAME COVER FOR CB1, CB2 & CB3 SHALL BE ANCHORED DIRECTLY TO THE TOP OF THE PRE-CAST CONCRETE TOP AS PER S.P. NO: F-4070  
TO PREVENT DISPLACEMENT.

SITE BENCHMARK  
FIRE HYDRANT ON TOP OF NUT OF FLANGE WITH AN ELEVATION OF 89.47, LOCATED ON MICHAEL STOQUOA STREET EAST SIDE OF ROADWAY









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4	TENDER SUBMISSION	2021-10-05	
5	TENDER RESUBMISSION	2021-11-03	
6	TENDER RESUBMISSION	2021-11-09	
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-19	
8	THIRD SUBMISSION	2021-11-23	

FOR REVIEW

KEY PLAN

BAREILLE-SNOW

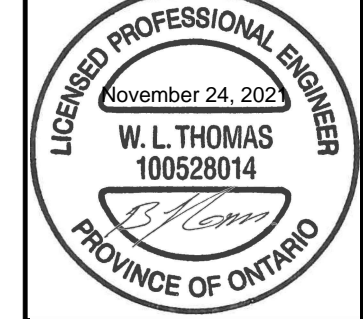
HEAL, CCK

MIKINAK

MICHAEL STOQUA

LEGEND:

- OVERLAND FLOW
- PROPOSED CONTOUR
- DEPRESSED CONCRETE CURB
- CONCRETE BARRIER CURB PER OPSD 600.110
- PONDING (100YR)
- PROPERTY LINE
- PROPOSED BIO-SWALE
- PROPOSED SOFTSCAPE
- PROPOSED HARDSCAPE
- PROPOSED BUILDING
- PERMEABLE PAVEMENT
- ASPHALT PAVED AREA
- WASTE PICK-UP AREA CONCRETE PAD
- CONCRETE DRIVEWAY



PROFESSIONAL ENGINEER  
November 24, 2021  
W. L. THOMAS  
100528014  
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IBI GROUP  
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Kingston ON K7M 8N7 Canada  
tel 613 531 4440 fax 613 531 7789  
ibigroup.com

PROJECT

MIKINAK REDEVELOPMENT

715 MIKINAK ROAD, OTTAWA, ON  
CANADA K1K 2G8

PROJECT NO: 125599	SCALE: AS SHOWN
DRAWN BY: NA	CHECKED BY: BT
PROJECT MGR: CW	APPROVED BY: BT

SHEET TITLE

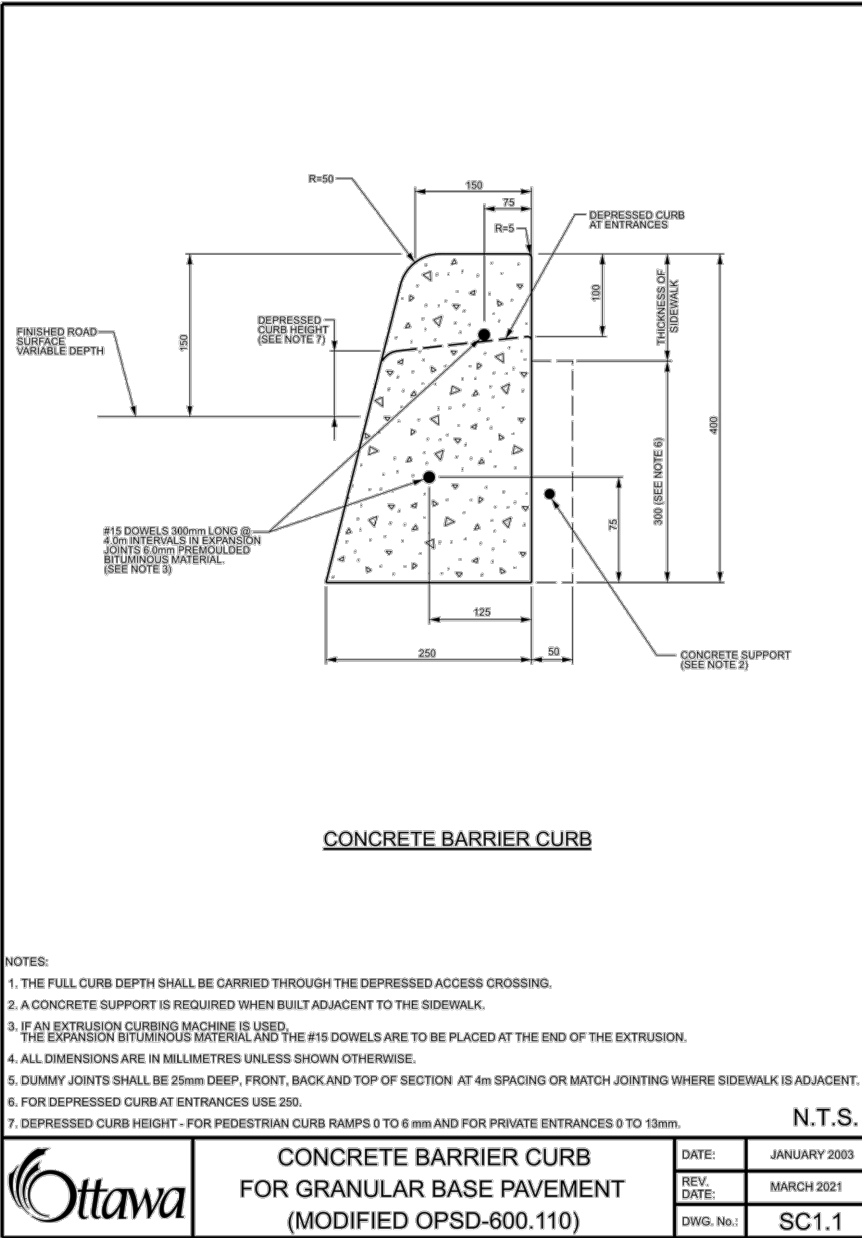
PONDING PLAN

SHEET NUMBER	ISSUE
CG1103	8

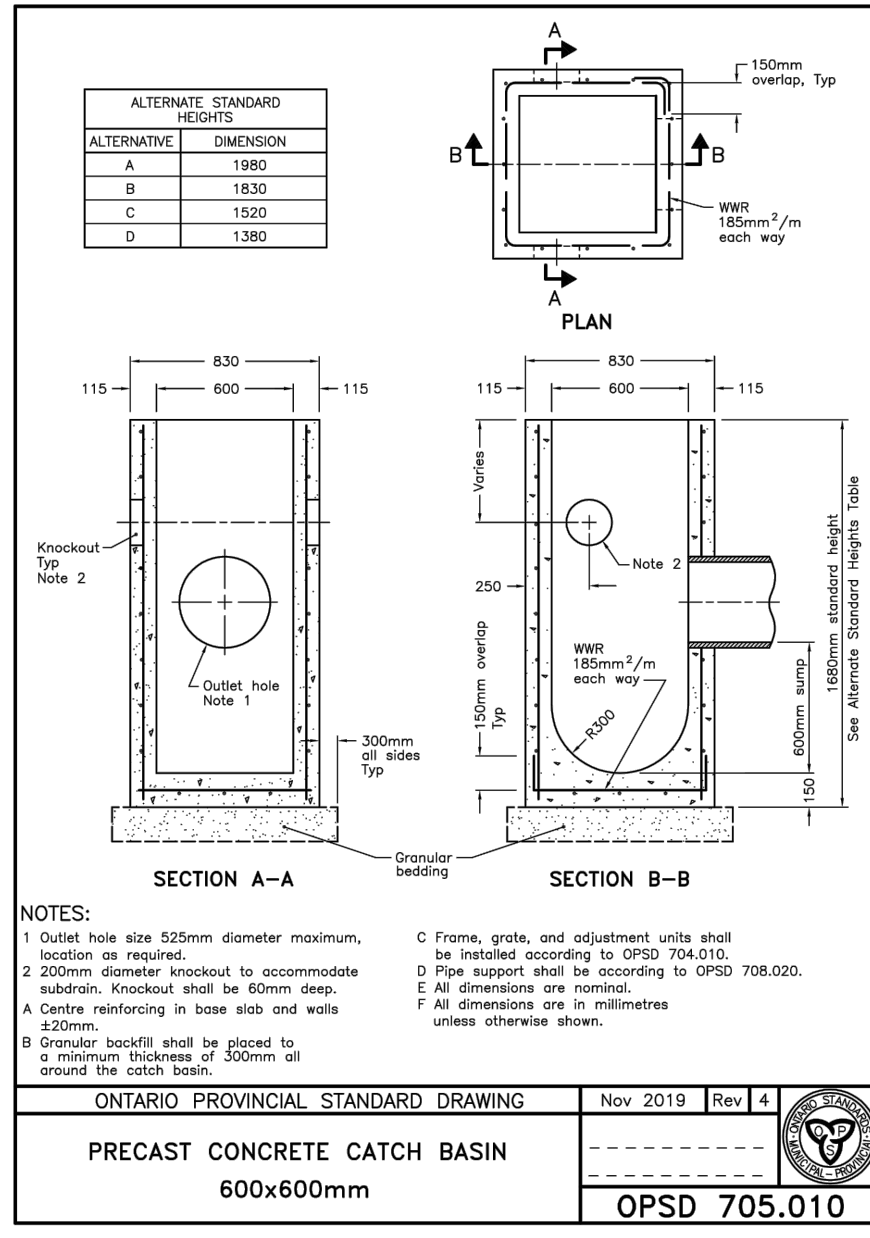
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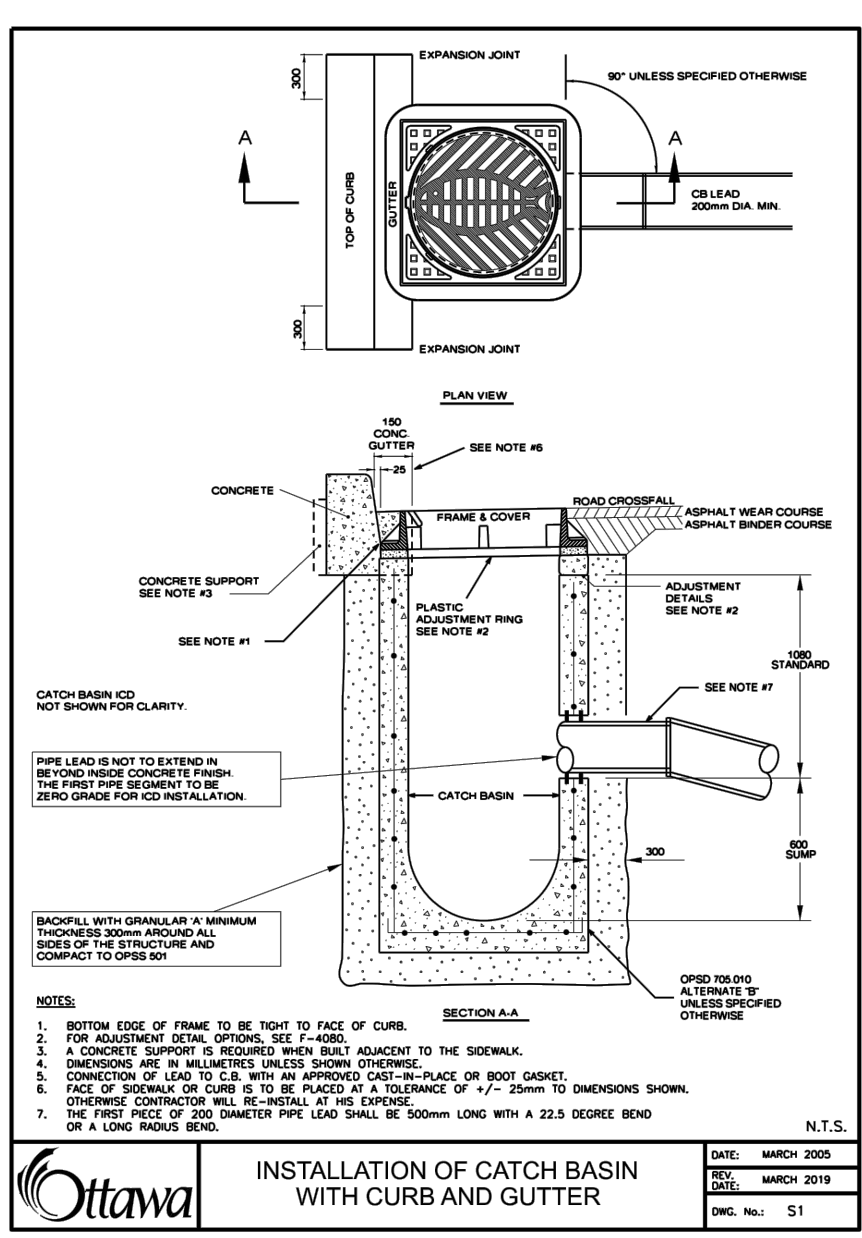




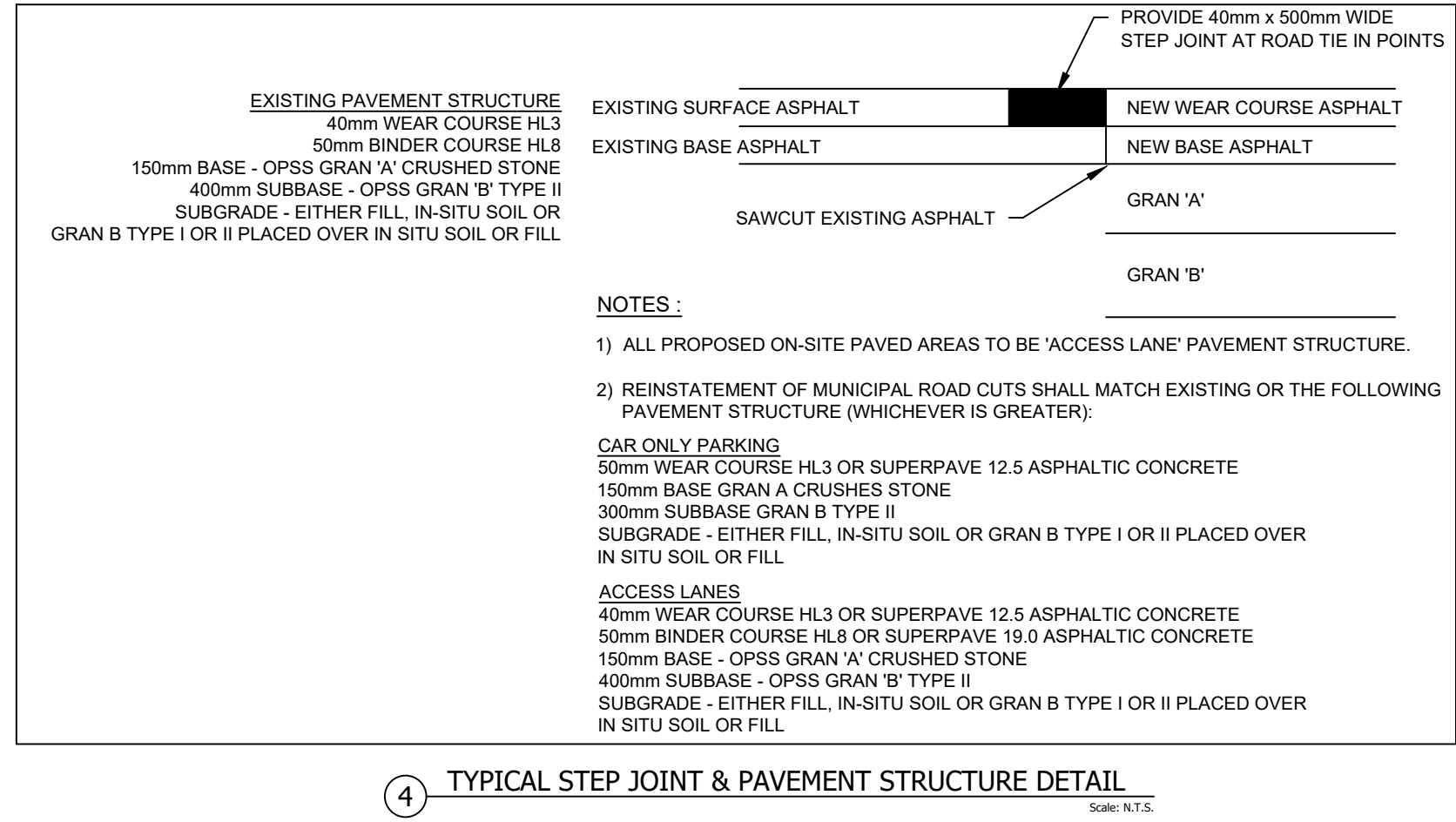
1 CONCRETE BARRIER CURB Scale: N.T.S.



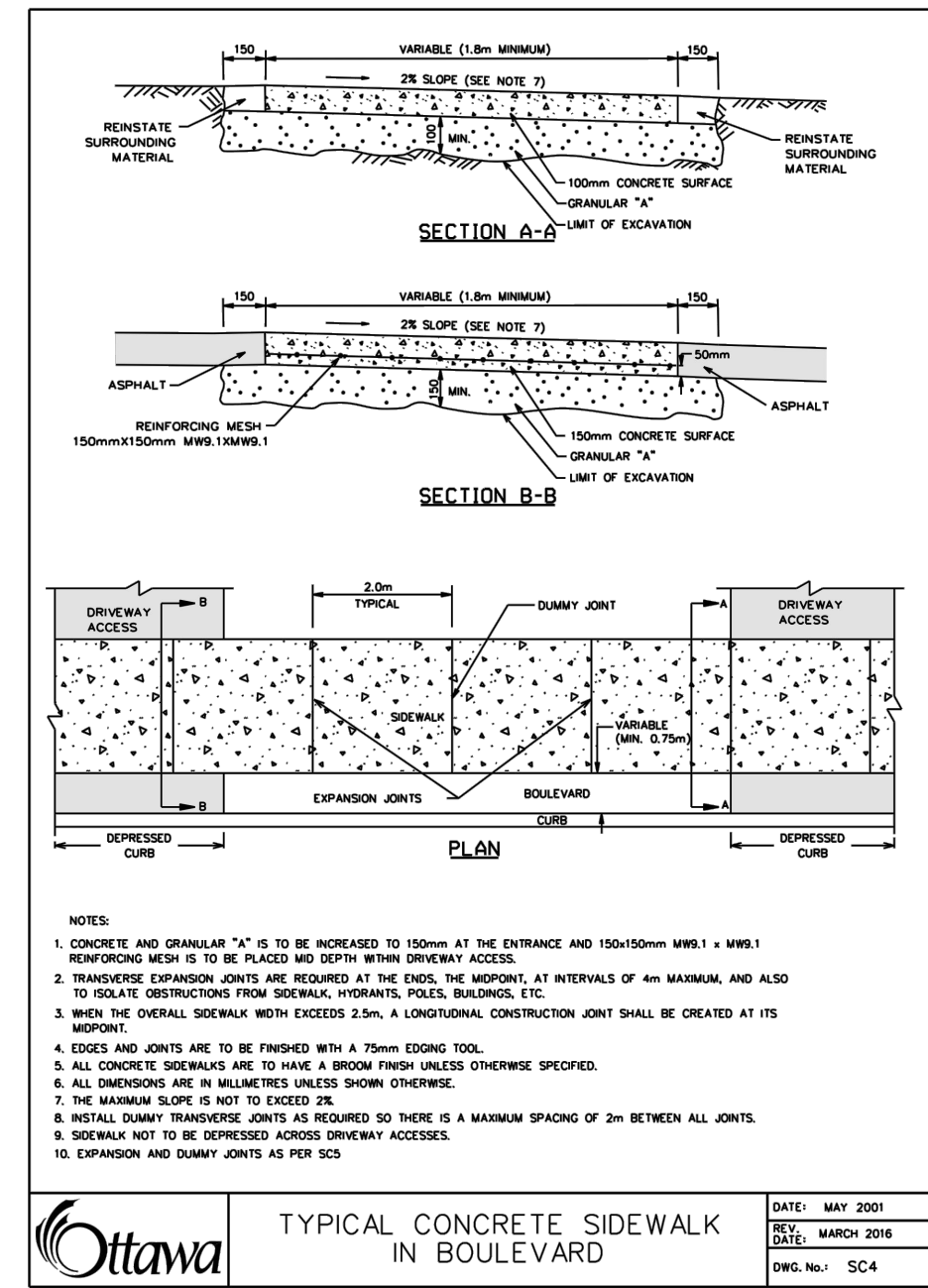
2 PRECAST CONCRETE CATCH BASIN Scale: N.T.S.



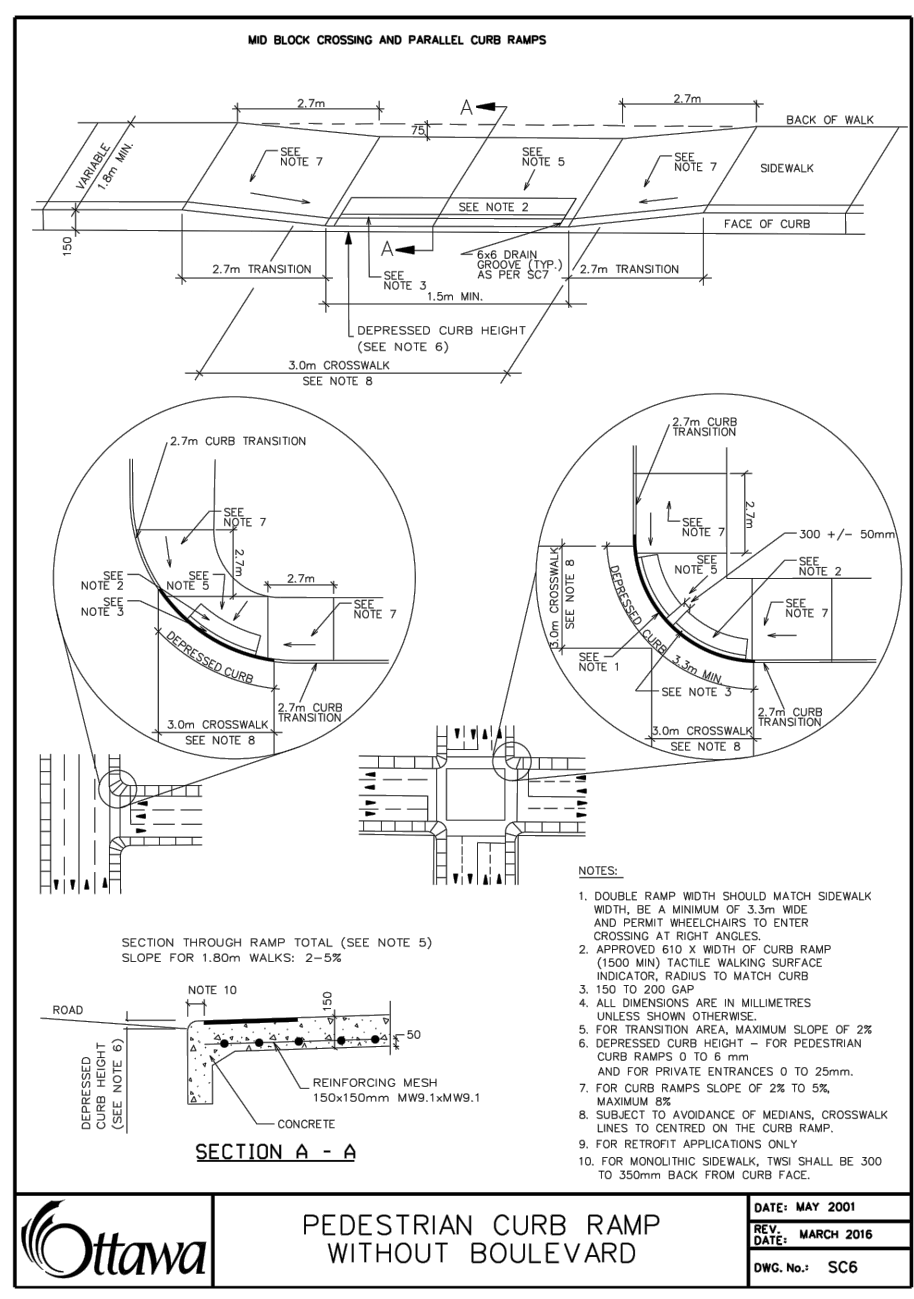
3 CATCH BASIN FLAT GRATE OPENINGS Scale: N.T.S.



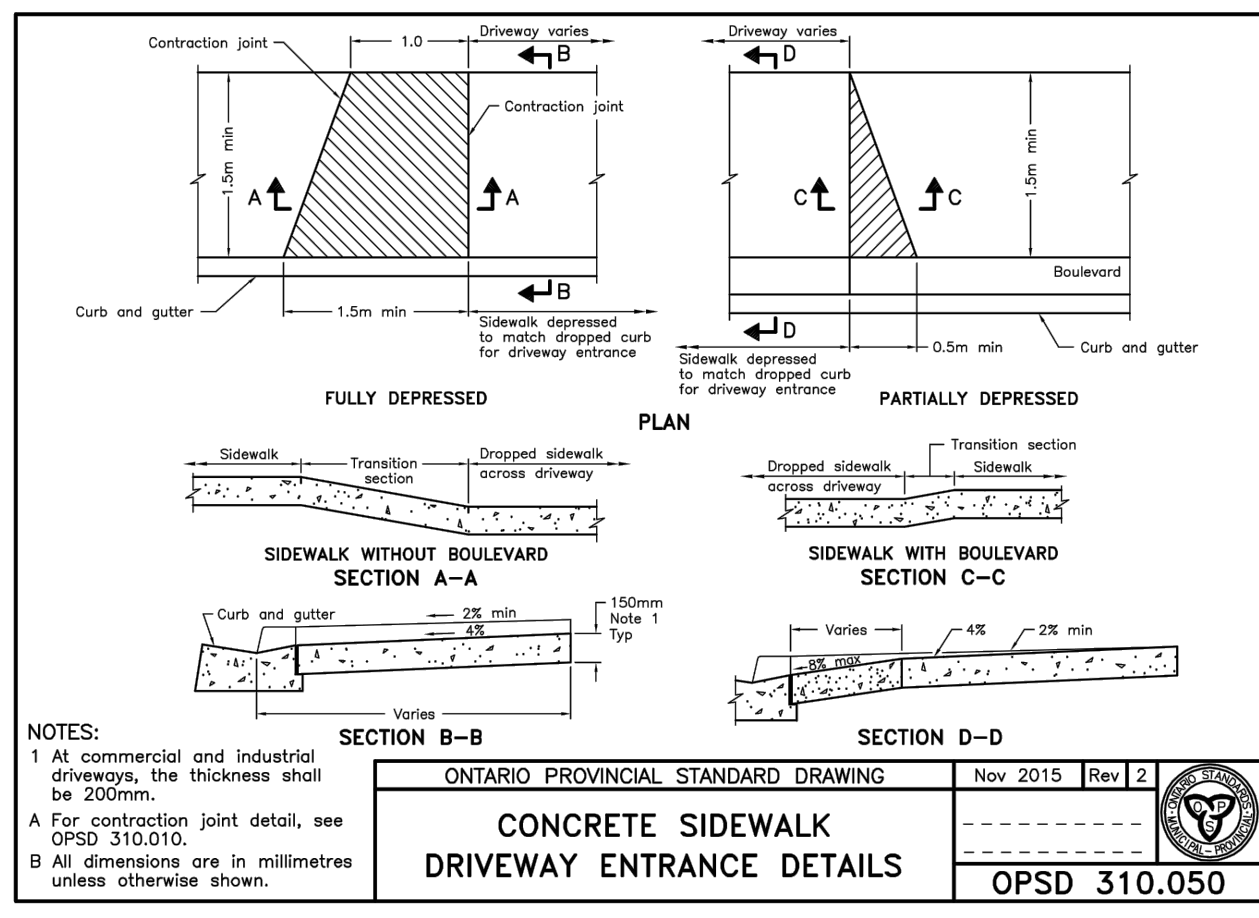
4 TYPICAL STEP JOINT & PAVEMENT STRUCTURE DETAIL Scale: N.T.S.



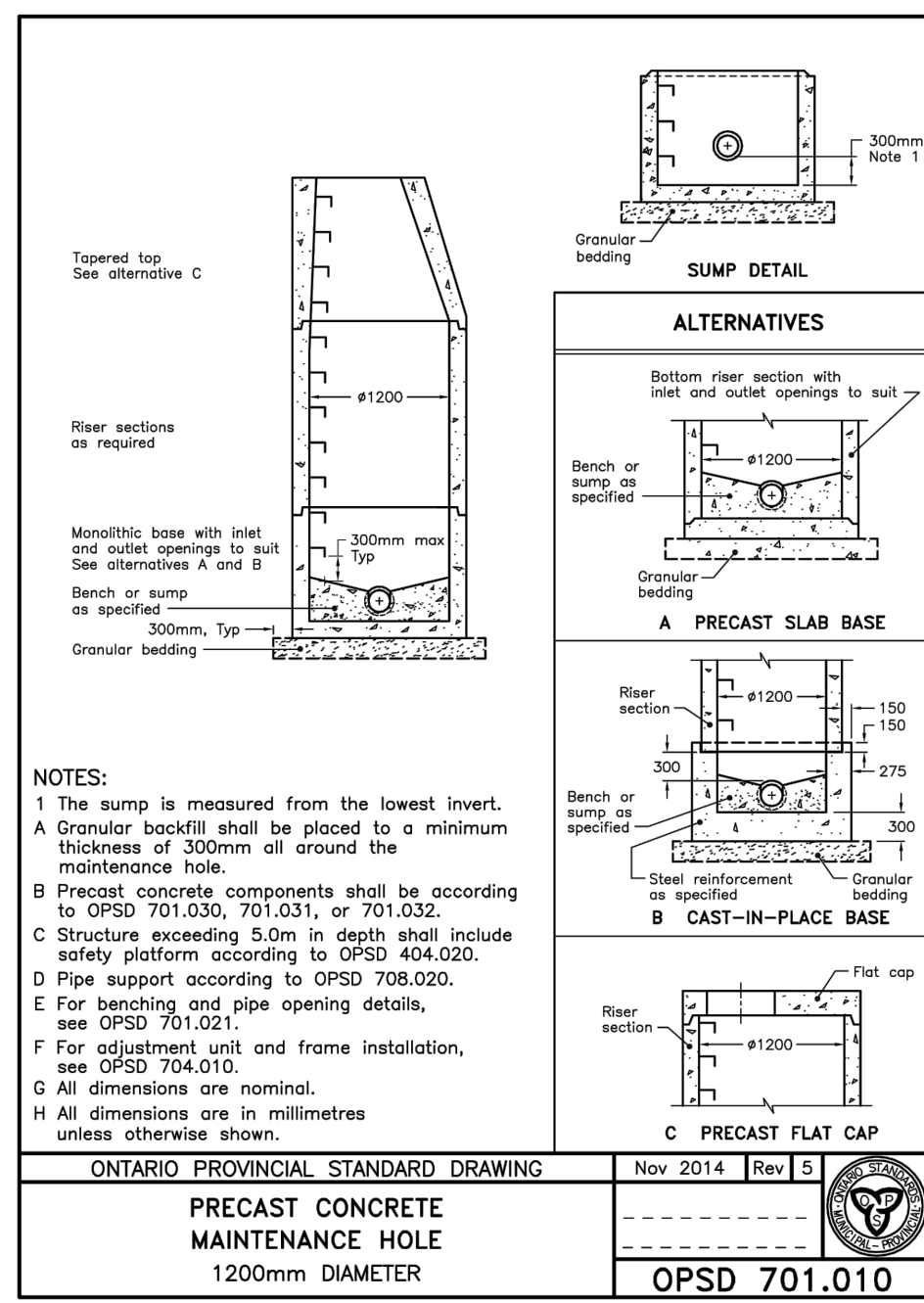
5 CONCRETE SIDEWALK Scale: N.T.S.



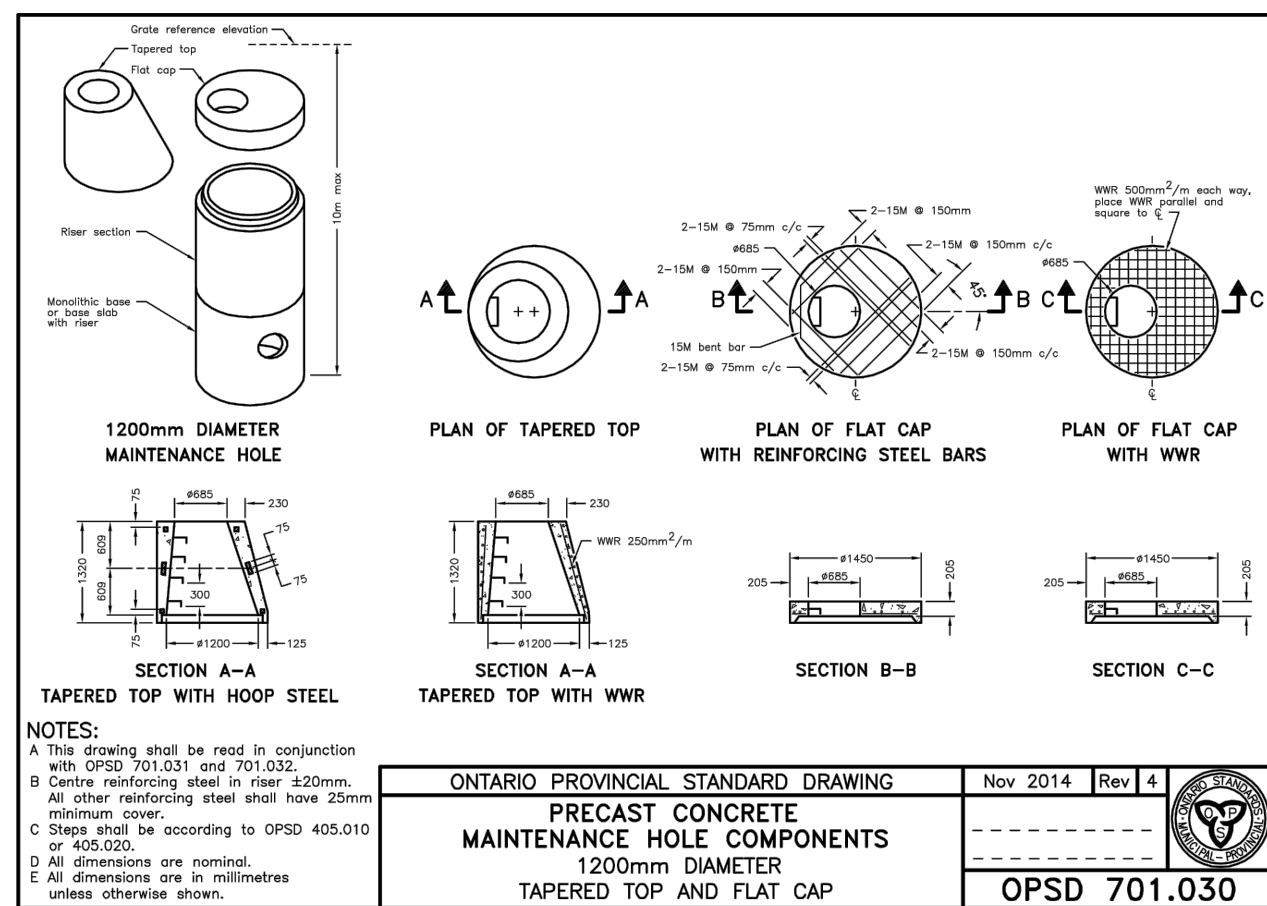
6 SIDEWALK RAMPS Scale: N.T.S.



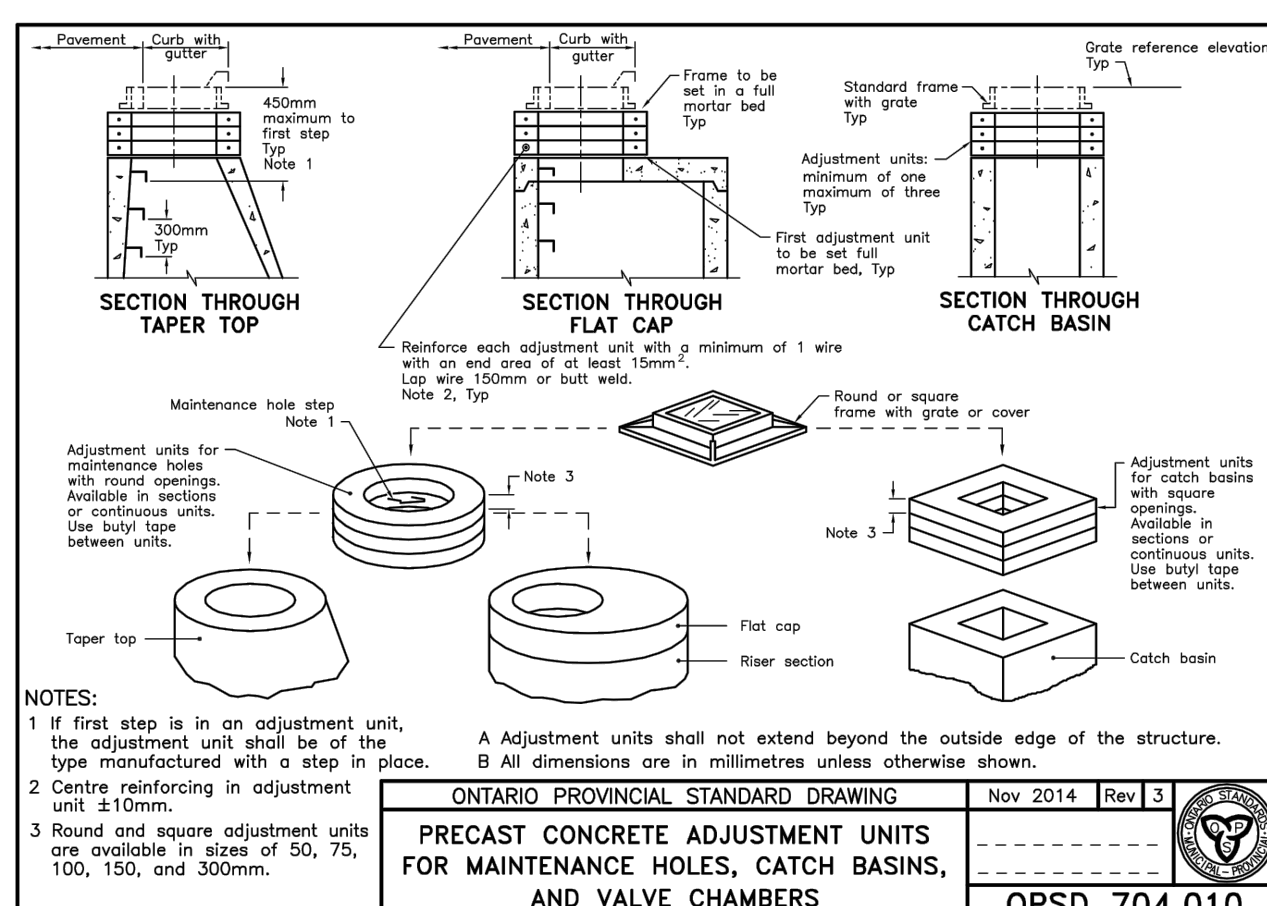
7 SIDEWALK AT DRIVEWAY ENTRANCE Scale: N.T.S.



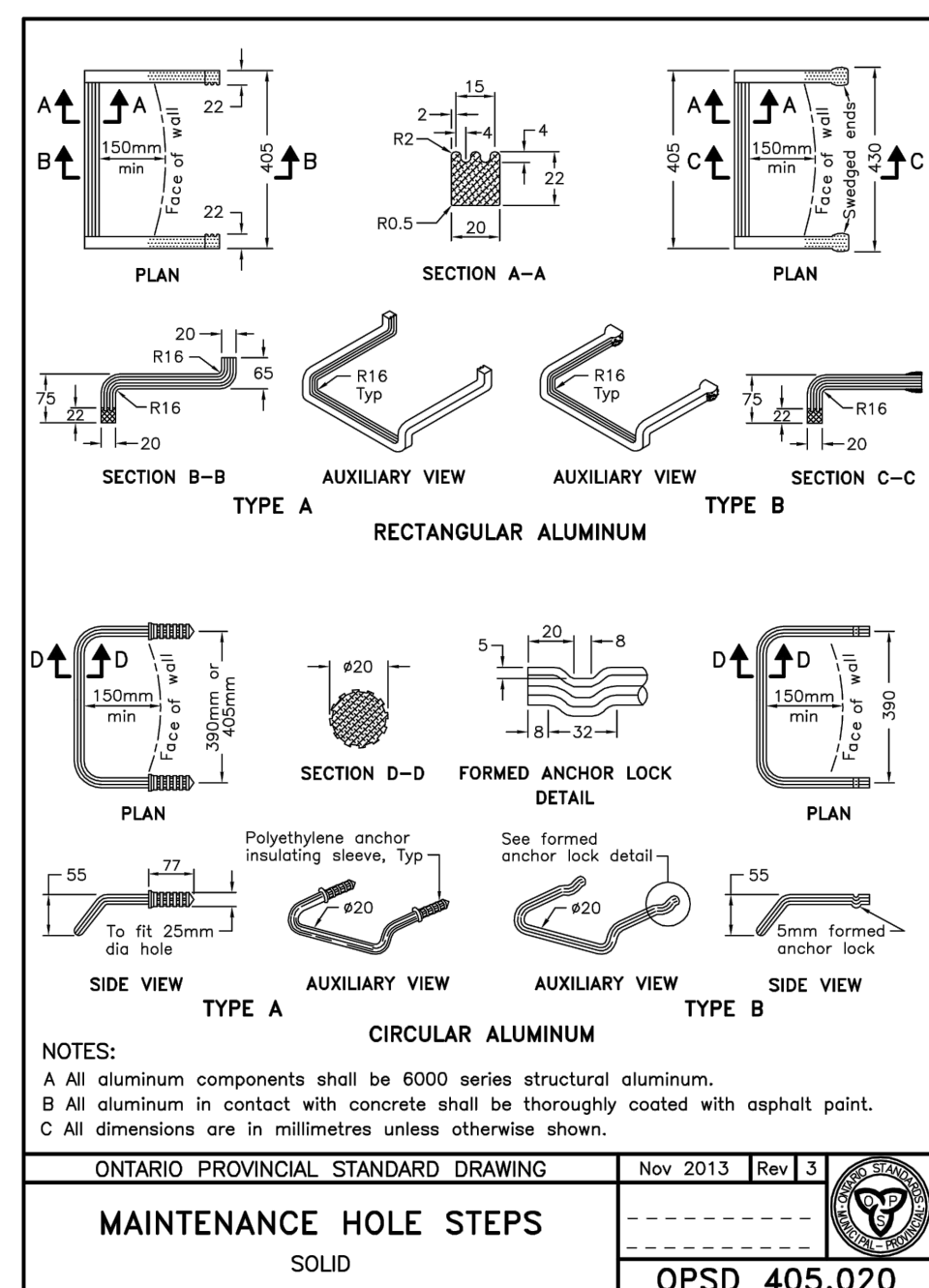
10 PRECAST CONCRETE MANHOLE Scale: N.T.S.



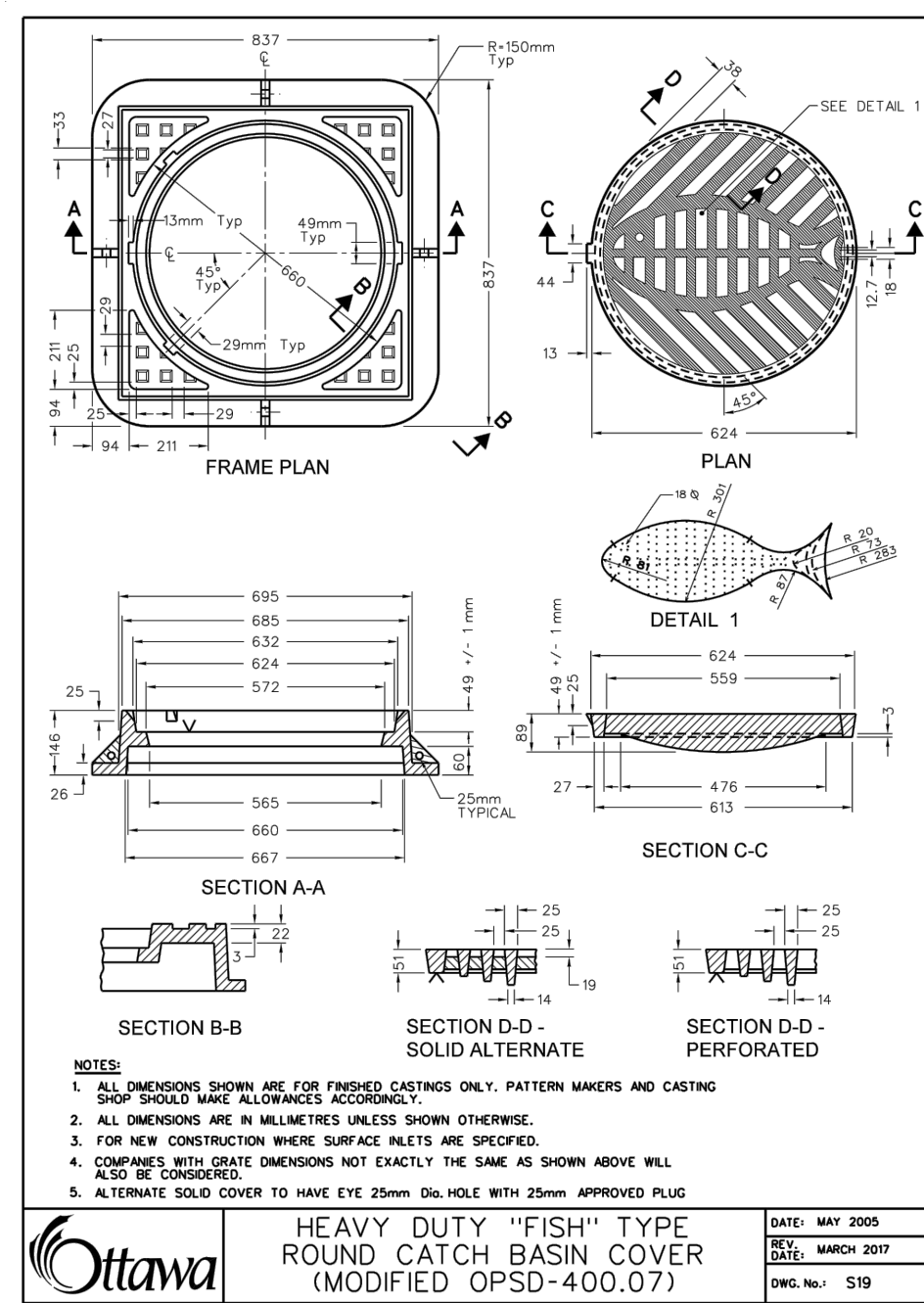
11 PRECAST MANHOLE COMPONENTS Scale: N.T.S.



12 PRECAST MANHOLE ADJUSTMENT Scale: N.T.S.



13 MANHOLE STEPS Scale: N.T.S.



14 STORM MANHOLE LIDS Scale: N.T.S.

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 PLEASE REFER TO DRAWING C0001 GENERAL NOTE AND SPECIFICATION REFERENCE FOR ADDITIONAL DETAILS FOR CITY OF OTTAWA STANDARD DRAWINGS.

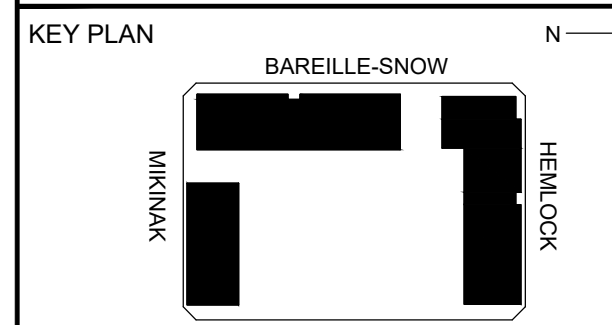


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3	BUILDING PERMIT SUBMISSION	2021-09-07
4	TENDER SUBMISSION	2021-10-06
5	TENDER RESUBMISSION	2021-11-03
6	TENDER RESUBMISSION	2021-11-09
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-19
8	THIRD SUBMISSION	2021-11-23

FOR REVIEW



KEY PLAN

BAREILLE-SNOW

HEAL-CK

STOQUA

MIKINAK

MIKINAK

MIKINAK

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AND SPECIFICATION REFERENCE FOR ADDITIONAL  
DETAILS FOR CITY OF OTTAWA STANDARD DRAWINGS

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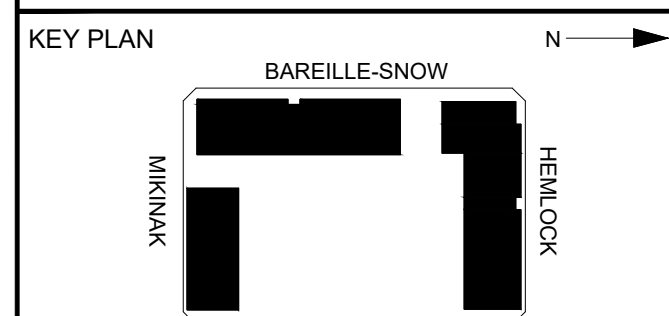
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ISSUES		
No.	DESCRIPTION	DATE
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3	BUILDING PERMIT SUBMISSION	2021-09-07
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5	TENDER RESUBMISSION	2021-11-03
6	TENDER RESUBMISSION	2021-11-09
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-19
8	THIRD SUBMISSION	2021-11-23

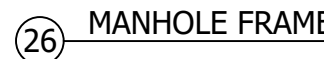
FOR REVIEW


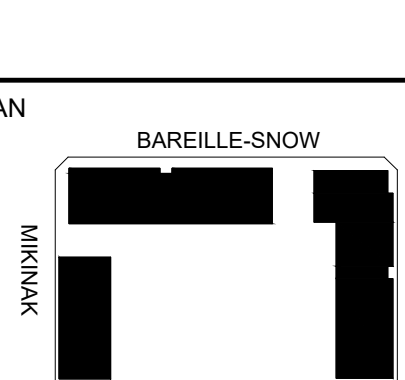
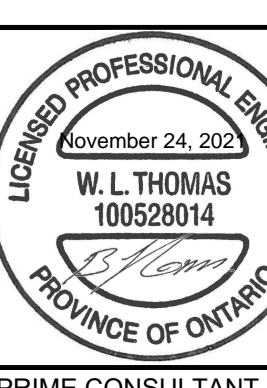


## 22 THRUST BLOCK DIMENSIONS



## 24 RESTRAINT LENGTH TABLE

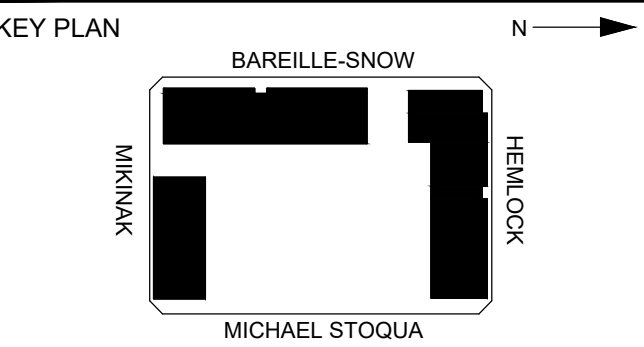


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<p>IBI Group Professional Services (Canada) Inc. is a member of the IBI Group of companies</p>																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ISSUES</th> <th style="width: 70%;">DESCRIPTION</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FIRST SUBMISSION</td> <td>2021-05-20</td> </tr> <tr> <td>2</td> <td>SECOND SUBMISSION</td> <td>2021-09-24</td> </tr> <tr> <td>3</td> <td>BUILDING PERMIT SUBMISSION</td> <td>2021-09-07</td> </tr> <tr> <td>4</td> <td>TENDER SUBMISSION</td> <td>2021-10-05</td> </tr> <tr> <td>5</td> <td>TENDER RESUBMISSION</td> <td>2021-11-03</td> </tr> <tr> <td>6</td> <td>TENDER RESUBMISSION</td> <td>2021-11-09</td> </tr> <tr> <td>7</td> <td>LS101 SITE WORKS - ADDENDUM 1</td> <td>2021-11-19</td> </tr> <tr> <td>8</td> <td>THIRD SUBMISSION</td> <td>2021-11-23</td> </tr> </tbody> </table>			ISSUES	DESCRIPTION	DATE	1	FIRST SUBMISSION	2021-05-20	2	SECOND SUBMISSION	2021-09-24	3	BUILDING PERMIT SUBMISSION	2021-09-07	4	TENDER SUBMISSION	2021-10-05	5	TENDER RESUBMISSION	2021-11-03	6	TENDER RESUBMISSION	2021-11-09	7	LS101 SITE WORKS - ADDENDUM 1	2021-11-19	8	THIRD SUBMISSION	2021-11-23
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<p><b>KEY PLAN</b></p> <div style="text-align: center;">  <p>BAREILLE-SNOW</p> <p>MIKINAK</p> <p>HENRI BOU</p> <p>MICHAEL STOOQA</p> </div>																													
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 50%;"> <p><b>PRIME CONSULTANT</b></p> <div style="display: flex; align-items: center;"> <div> <p><b>IBI GROUP</b></p> <p>Unit 110 - 650 Dalton Avenue Kingston ON K7M 8N7 Canada tel 613 531 4440 fax 613 531 7789 ibigroup.com</p> </div> </div> </div> </div>																													
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<p>SHEET TITLE</p> <p style="text-align: center; font-size: 24px;"><b>DETAILS II</b></p>																													
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<b>CD1102</b>		<b>8</b>																											

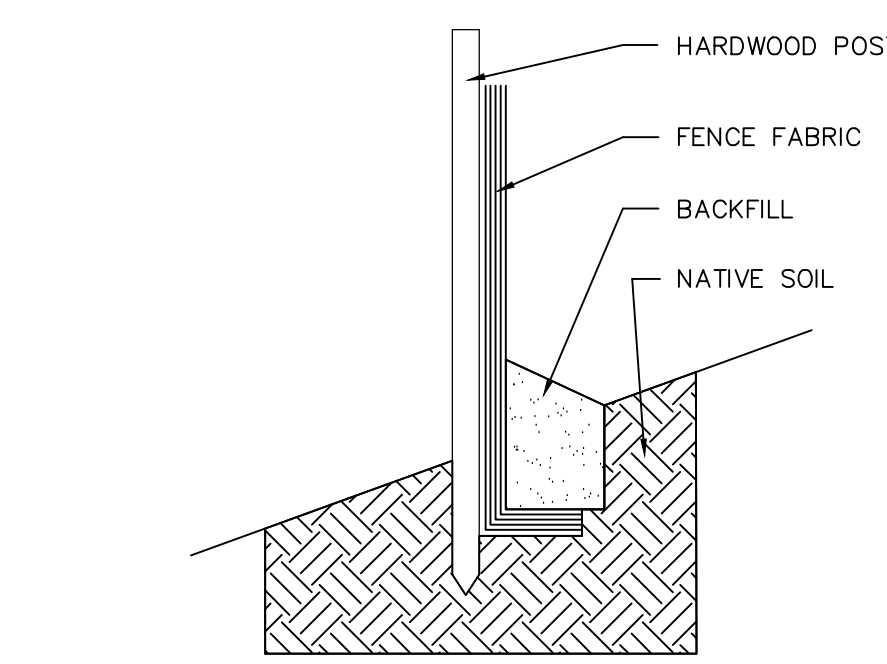


ISSUES	DESCRIPTION	DATE
1	FIRST SUBMISSION	2021-05-20
2	SECOND SUBMISSION	2021-08-24
3	BUILDING PERMIT SUBMISSION	2021-09-07
4	TENDER SUBMISSION	2021-10-05
5	TENDER RESUBMISSION	2021-11-03
6	TENDER RESUBMISSION	2021-11-09
7	L3101 SITE WORKS - ADDENDUM 1	2021-11-19
8	THIRD SUBMISSION	2021-11-23

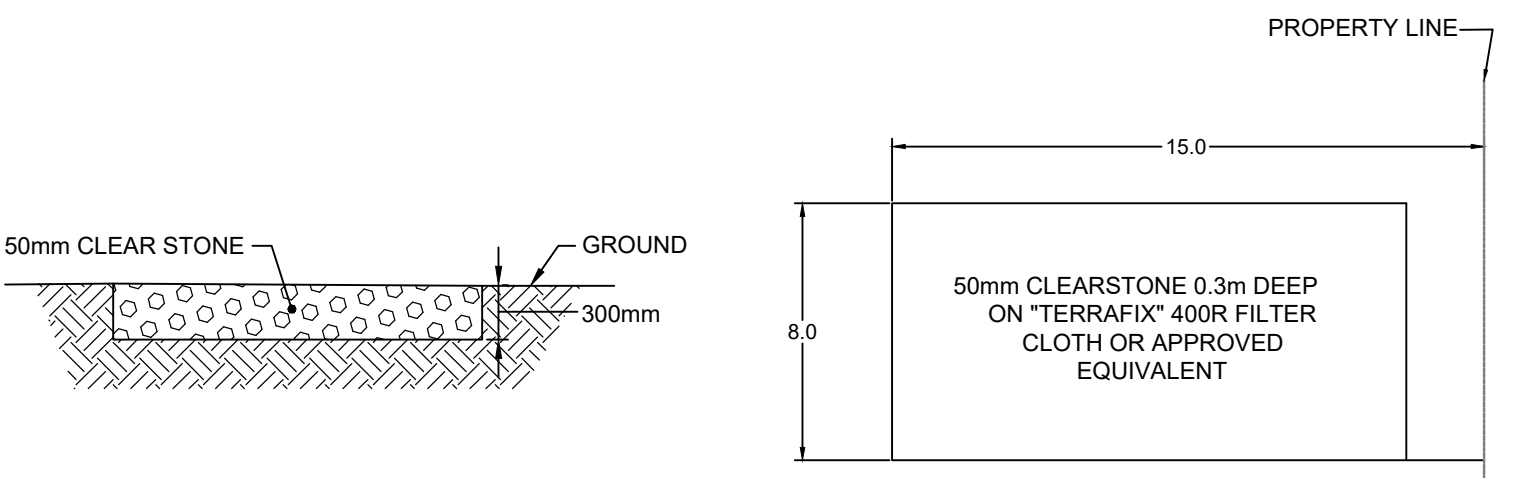
FOR REVIEW



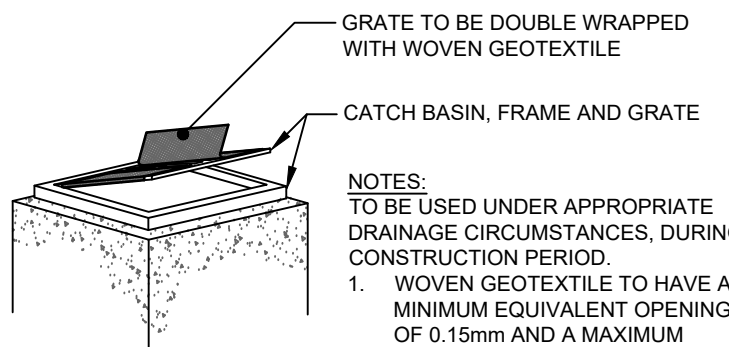
- LEGEND
- PROPOSED PIPE REMOVAL
  - PROPOSED SILT FENCE
  - PROPOSED MUD CONTROL PAD
  - ROAD CUT AND RESTORATION
  - EXISTING TO BE PROTECTED
  - REMOVE AND DISPOSE



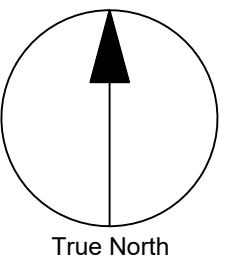
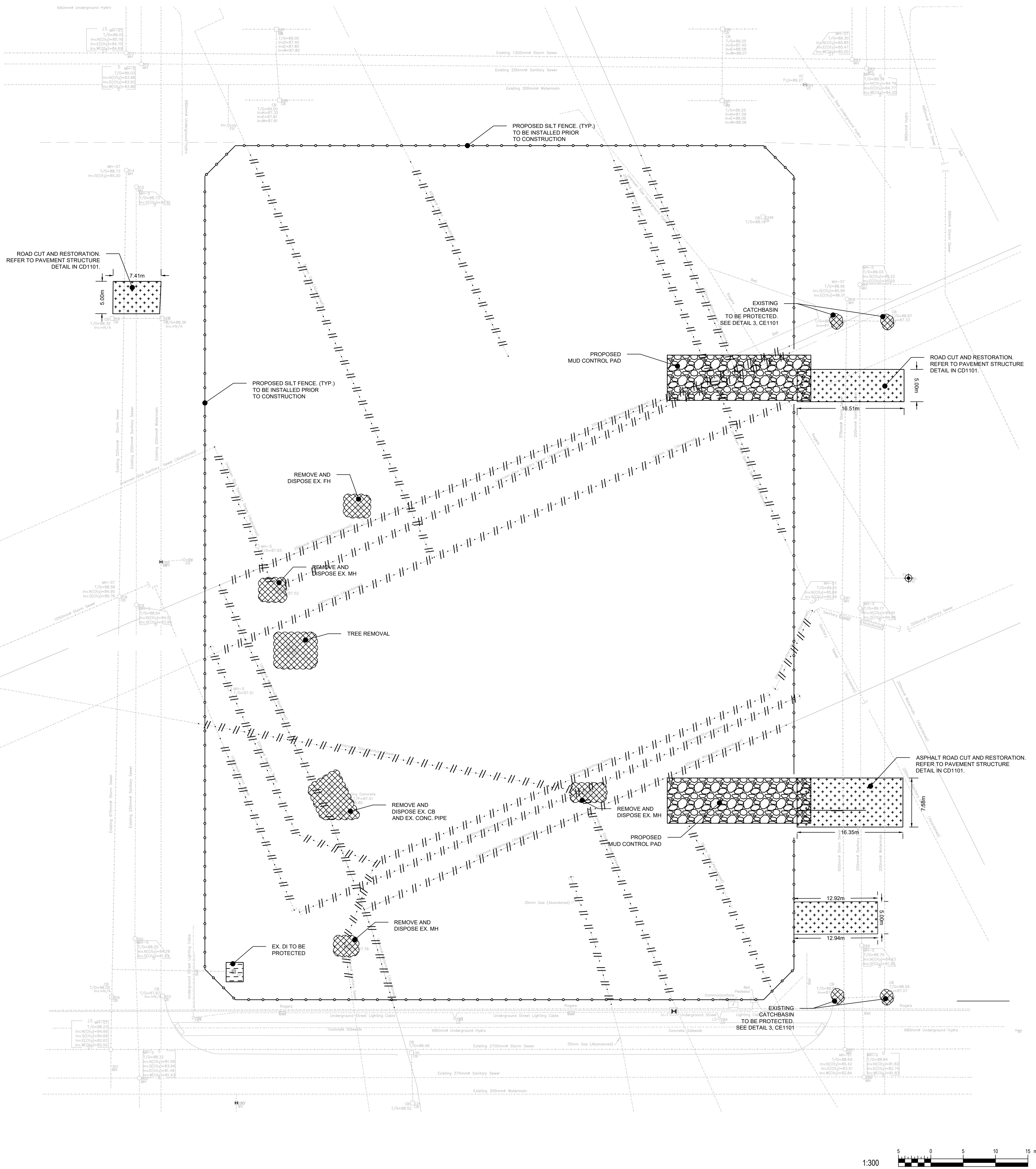
- NOTES:
- SILTATION FENCE FABRIC TO BE "TERRAFENCE" OR APPROVED EQUAL.
  - FABRIC WIDTH TO BE 0.6m MINIMUM.
  - WOOD POSTS TO BE 0.9m HIGH AND INSTALLED AT 2.3m MAXIMUM SPACING.
  - FENCE INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND TO THE SATISFACTION OF THE C.R.C.A.
  - CONTRACTOR TO INSTALL FENCE UPON COMMENCEMENT OF CONSTRUCTION. FENCE SHALL BE MAINTAINED UNTIL DISTURBED AREAS HAVE BEEN REVEGETATED.



- NOTES
- REQUEST FOR TEMPORARY CONSTRUCTION ACCESS REQUIRES CONSENT FROM LOCAL MUNICIPALITY.



- NOTES
- TO BE USED UNDER APPROPRIATE DRAINAGE CIRCUMSTANCES, DURING THE CONSTRUCTION PERIOD
- WOVEN GEOTEXTILE TO HAVE A MINIMUM EQUIVALENT OPENING SIZE OF 0.15mm AND A MAXIMUM EQUIVALENT OPENING SIZE OF 0.25mm.
  - WOVEN GEOTEXTILE TO BE REPLACES PERIODICALLY WHEN ACCUMULATED SEDIMENTS INTERFERE WITH DRAINAGE.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.



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IBI GROUP  
Unit 110 - 650 Dabon Avenue  
Kingston ON K7M 8N7, Canada  
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ibigroup.com

PROJECT  
MIKINAK REDEVELOPMENT  
715 MIKINAK ROAD, OTTAWA, ON  
CANADA K1K 2G8

PROJECT NO: 125599	SCALE: AS SHOWN
DRAWN BY: NA	CHECKED BY: BT
PROJECT MGR: CW	APPROVED BY: BT

SHEET TITLE  
SEDIMENT & EROSION  
CONTROL PLAN

SHEET NUMBER  
CE1101  
ISSUE  
8

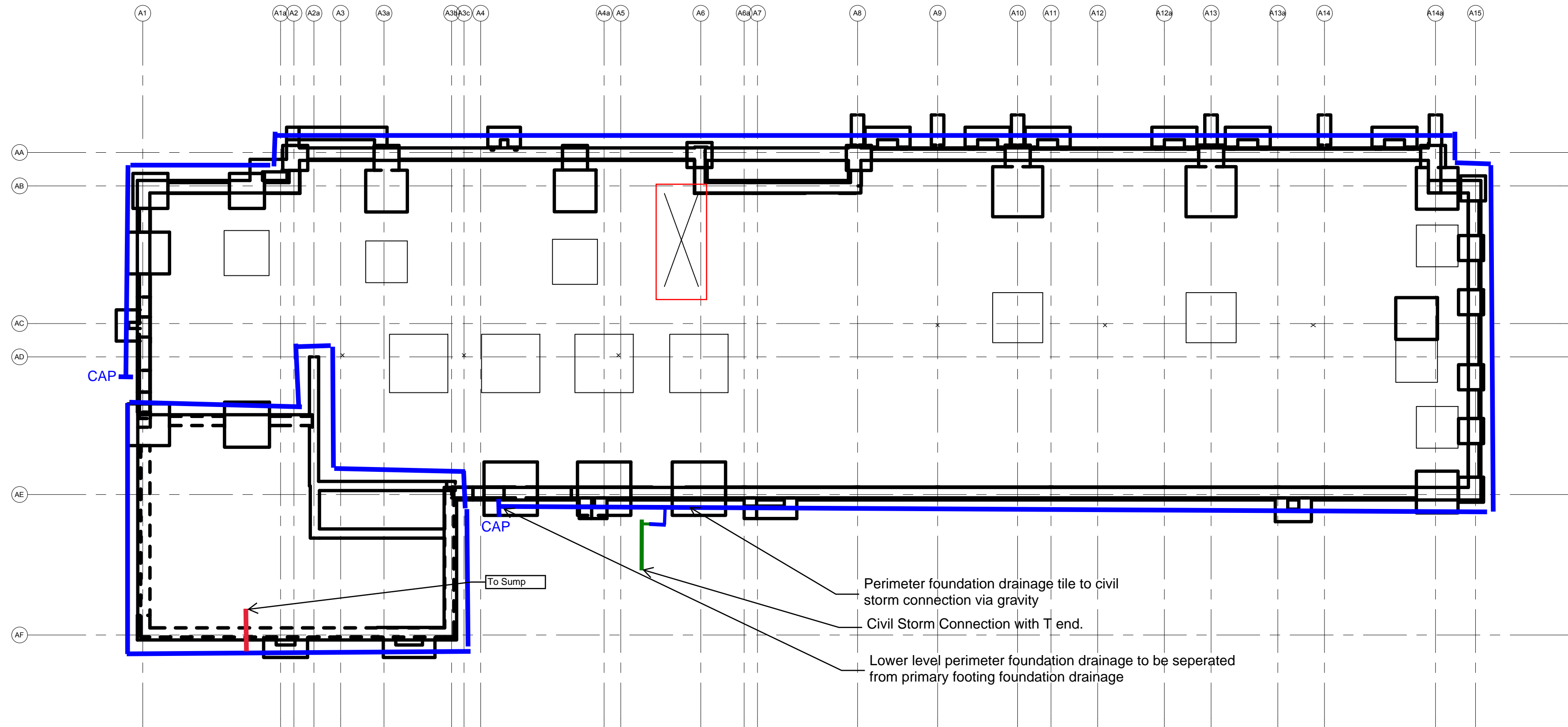


Perimeter Drainage system consisting of 150 mm perforated drain pipe wrapped in non-woven geotextile and surrounded with 150 mm of 19 mm clear stone.

150 mm diameter drainage sleeves be cast in the footing or at the foundation wall/footing interface mechanically connected to the exterior perimeter drainage pipe

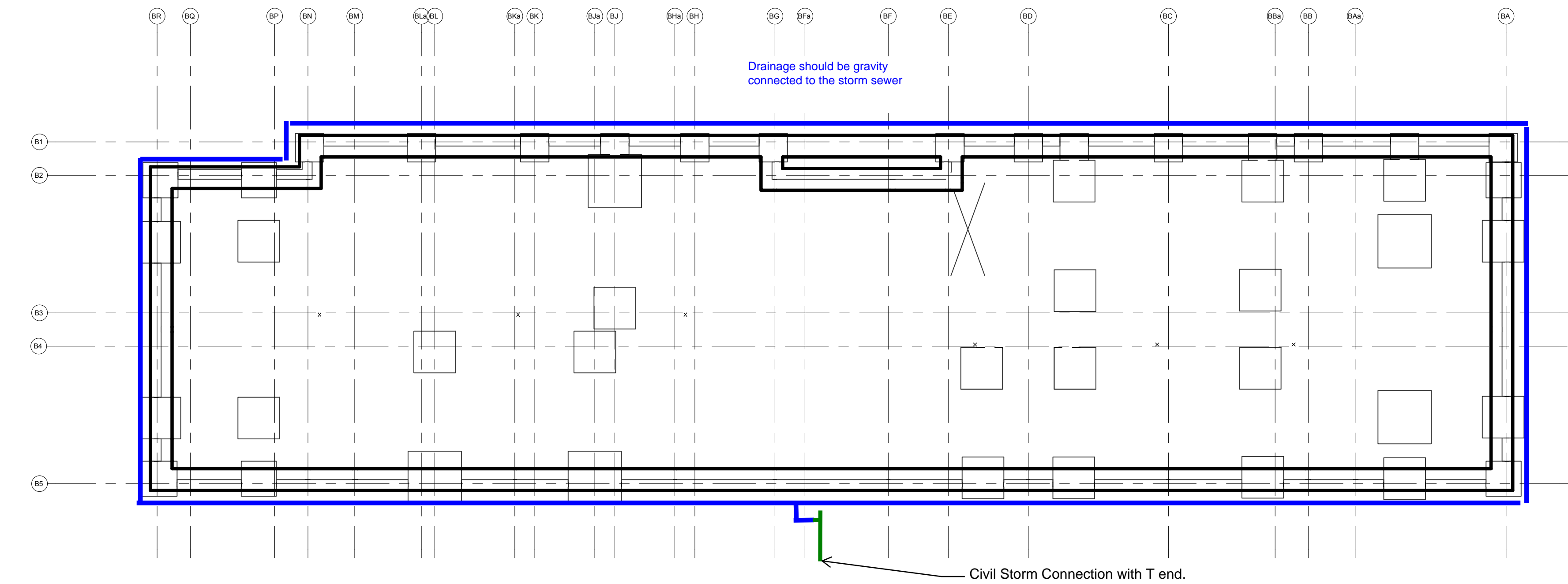
1 FOUNDATION DRAINAGE PLAN BLDG 'A'

Scale: 1:200



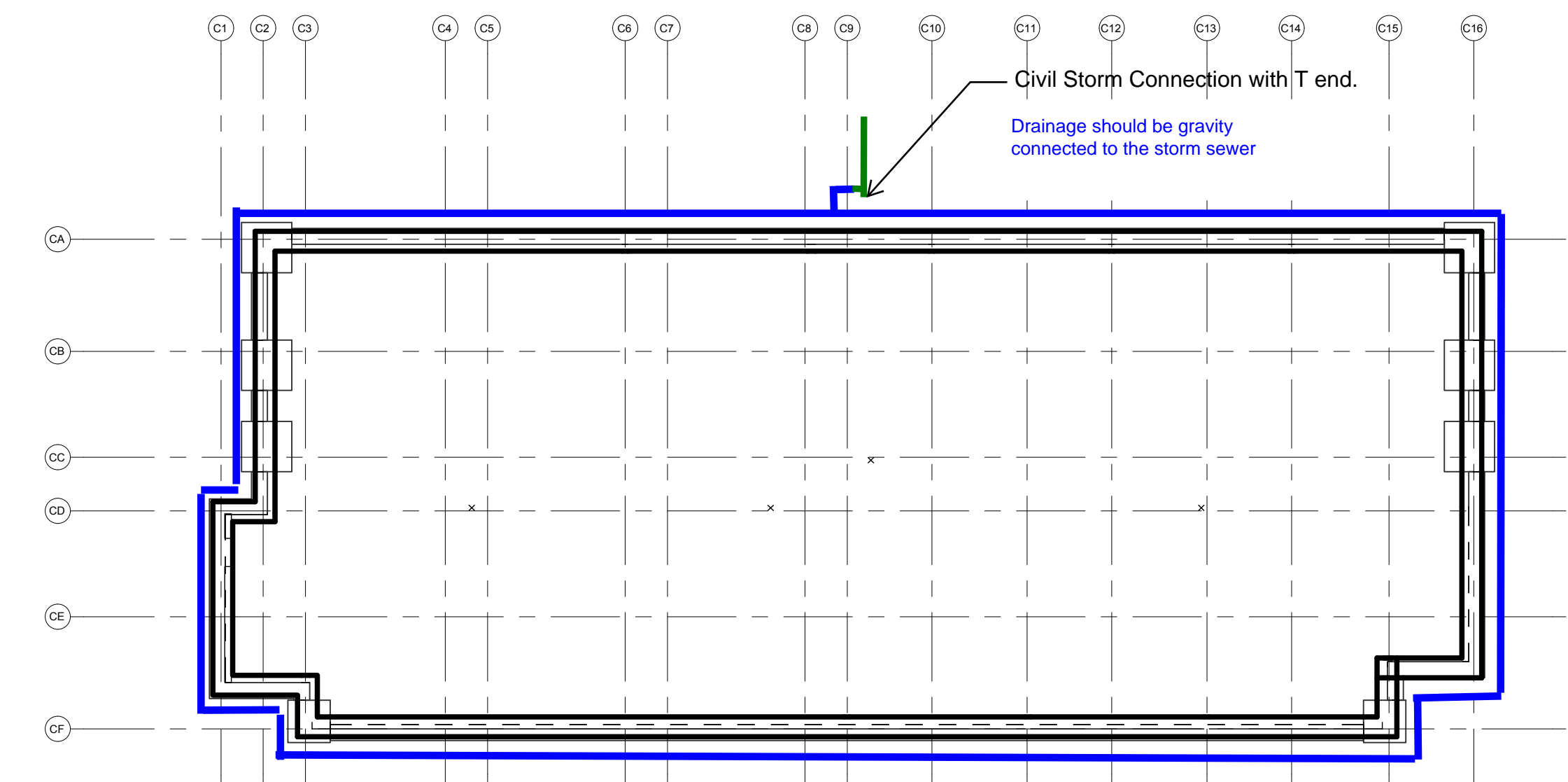
2 FOUNDATION DRAINAGE PLAN BLDG 'B'

Scale: 1:200



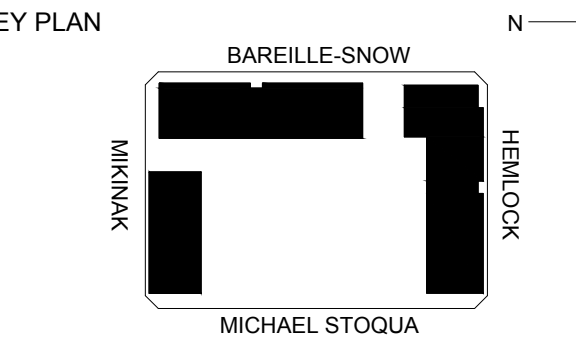
3 FOUNDATION DRAINAGE PLAN BLDG 'C'

Scale: 1:200



ISSUES		
No.	DESCRIPTION	DATE
1	####	####

NOT FOR CONSTRUCTION



PROJECT NO: 125599	SCALE: as shown
DRAWN BY:	CHECKED BY:
PROJECT MGR:	APPROVED BY: