

Public Works and
Government Services
Canada

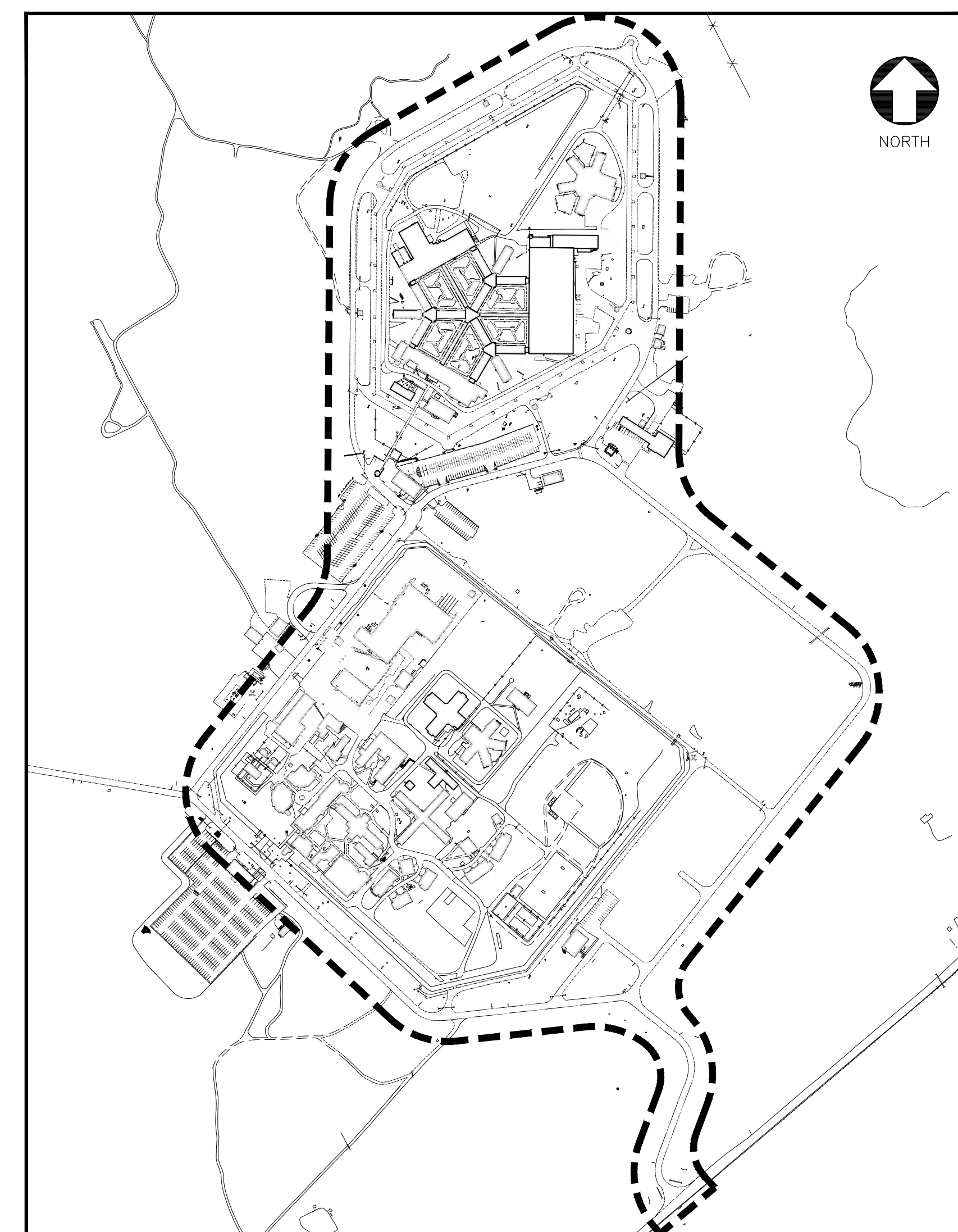
Travaux publics et
Services gouvernementaux
Canada

BATH AND MILLHAVEN INSTITUTION ROAD RESURFACING PROJECT

BATH AND MILLHAVEN INSTITUTION
BATH, ONTARIO

ISSUED FOR BID

PROJECT NO. R.087522.001



SITE PLAN
SCALE 1:5000

wood.

Canada

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STANDARD ENGINEERING NOTES

NOTES

THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON INDIVIDUAL DRAWINGS:

GENERAL

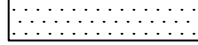
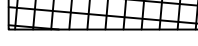
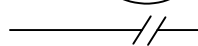
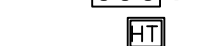
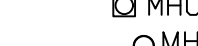
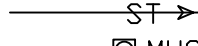
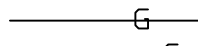
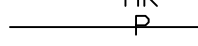
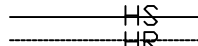
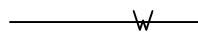
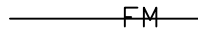
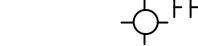
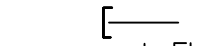
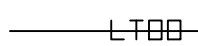
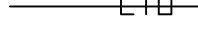
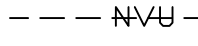
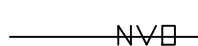
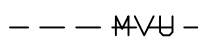
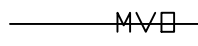
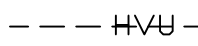
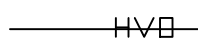
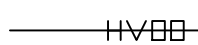
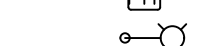
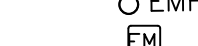
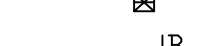
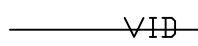
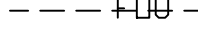
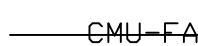
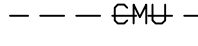
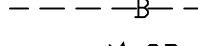
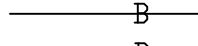
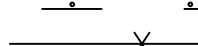
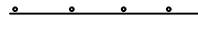
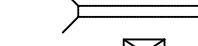
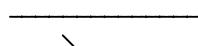
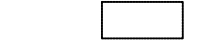
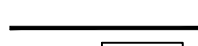
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS, PIPE SIZE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- STANDARD DRAWINGS AND SPECIFICATIONS OF THE ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS ARE PART OF THE PLANS OF THE CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING AND MAINTAINING ACCESS ROAD FREE OF ALL MUD TRACKING FROM THE SITE.
- SOIL AND GEOTECHNICAL INFORMATION FROM GEOTECHNICAL REPORT PREPARED BY AMEC FOSTER WHEELER DATED MAY 14, 2018. ALL SERVICES BUILT IN FILL TO BE CERTIFIED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR SHALL COMPLETE AND SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION AS PER SECTION 01 35 43 OF THE SPECIFICATIONS. ALL SILT CONTROL AND EROSION PROTECTION MEASURES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH. REMOVAL SUBJECT TO APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.
- INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN IN THIS SET OF PLANS IS FURNISHED AS THE BEST AVAILABLE INFORMATION. ALL UTILITIES AND SERVICES LOCATION TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND SUPPORT OF ALL EXISTING SERVICES/UTILITIES ENCOUNTERED DURING CONSTRUCTION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE DEPARTMENTAL REPRESENTATIVE. (DETAILS ARE NOT TO BE SCALED FROM DRAWINGS).
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 150mm OF APPROVED TOPSOIL AND ADEQUATE STANDARD ROADSIDE SEED MIX TO ESTABLISH A GRASS COVER TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- ALL OPEN SPACE SHALL BE MAINTAINED FREE OF GARBAGE AND CONSTRUCTION DEBRIS BY THE CONTRACTOR UNTIL THE COMPLETION OF THE PROJECT.
- ALL NATIVE TRENCH BACKFILL MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY (SPD). THE UPPER 600mm OF THE TRENCH ON THE TRAVELED PORTION OF THE ROAD TO BE COMPACTED TO 98% SPD AND UNTRAVELED PORTIONS TO 95% SPD. NATIVE MATERIAL WILL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. SHOULD THE MATERIAL BE FOUND TO BE UNACCEPTABLE, THEN APPROVED IMPORTED GRANULAR MATERIAL WILL BE REQUIRED.
- GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE PLACE IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- ALTERNATIVE MATERIAL MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS BEEN FIRST OBTAINED FROM DEPARTMENTAL REPRESENTATIVE.
- ALL CONSTRUCTION AND TRENCHING WORK TO BE DONE IN ACCORDANCE WITH THE 'CONSTRUCTION SAFETY ACT' AND THE 'THE OCCUPATIONAL HEALTH AND SAFETY ACT'. THE CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O., "ONTARIO TRAFFIC MANUAL, BOOK 7".
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE ENGINEERING SERVICES DEPARTMENT, M.T.O., FOR THE PURPOSE OF VEHICULAR ACCESS TO THE PROPERTY (ENTRANCE PERMIT).
- THE DEPARTMENTAL REPRESENTATIVE ARE TO BE NOTIFIED 14 DAYS PRIOR TO THE START OF CONSTRUCTION IN ORDER TO ARRANGE FOR INSPECTION.

ROADWORKS

- ROADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS FOLLOWING MATERIALS AND DEPTHS INDICATED ON THE DRAWINGS.
- NATIVE SUB-GRADE SHALL HAVE A CROSSFALL OF 3% AND THE MATERIAL SHALL BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- PRIOR TO PLACEMENT OF GRANULAR MATERIAL FOR ROAD CONSTRUCTION, THE SUB-GRADE MATERIAL MUST BE PROOF ROLLED IN THE PRESENCE OF THE DEPARTMENTAL REPRESENTATIVE. THE SUITABILITY AND COMPACTION OF THE SUB-GRADE MATERIAL SHALL BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION OF ANY GRANULAR MATERIALS.
- THE SUITABILITY AND COMPACTION OF ALL FILL MATERIALS SHALL BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS. ALL GRANULAR MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. ALL NATIVE FILL WITHIN THE ROAD ALLOWANCE TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
- PAVEMENT STRUCTURES FOR PROPOSED ROADS AS SHOWN IN DETAILS ON DRAWINGS C-421.28 AND C-421.29.
- R.A.P IS NOT PERMITTED IN TOP ASPHALT (HL-3) DESIGN MIX. A MAXIMUM OF 15% R.A.P. IS ALLOWED IN BASE ASPHALT (HL-8). NO OTHER RECYCLED ADDITIVES ARE ALLOWED.
- ASPHALT MIX DESIGNS MUST BE PROVIDED TO THE DEPARTMENTAL REPRESENTATIVE NO LESS THAN TWO WEEKS PRIOR TO SCHEDULE PAVING.
- TOP (SURFACE) COURSE ASPHALT TO BE LAID IN THE SAME YEAR AS THE BASE (BINDER) COURSE, AFTER ALL SERVICES INSTALLED. TACK COAT REQUIRED PRIOR TO TOP.
- PAINTED PAVEMENT MARKINGS MUST BE INSTALLED ON SURFACE COURSE ASPHALT IN THE SAME YEAR AS THE SURFACE AND BASE COURSE ASPHALT.
- FULL LENGTH 150mm DIAMETER SUB-DRAINS TO BE INSTALLED PER STANDARD DRAWING AND CONNECTED TO THE CATCH BASINS OR DITCHES (OPSD 206.050).

LEGEND

271.89

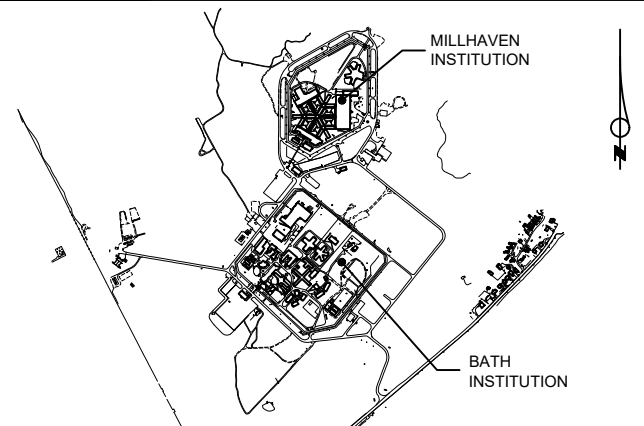


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Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

1	ISSUED FOR BID	21/06/07
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revisions	description	date
A	A detail no. no. du detail	
B	B location drawing no. sur dessin no.	
C	C drawing no. dessin no.	

project project

BATH AND MILLHAVEN INSTITUTION FACILITIES ROAD RESURFACING

BATH, ONTARIO

drawing dessin

DRAWING INDEX, STANDARD ENGINEERING NOTES & LEGEND SHEET

Designed By	JACOB LAMB	Conçu par
Date	2021-03-01	(yyyy/mm/dd)
Drawn By	TAPIWA ZIYENG	Dessiné par
Date	2021-03-01	(yyyy/mm/dd)
Reviewed By	JASON STAHL	Examiné par
Date	2021-03-01	(yyyy/mm/dd)
Approved By	YYYY-MM-DD	Approuvé par
Date	YYYY-MM-DD	(yyyy/mm/dd)
Bid		Soumission

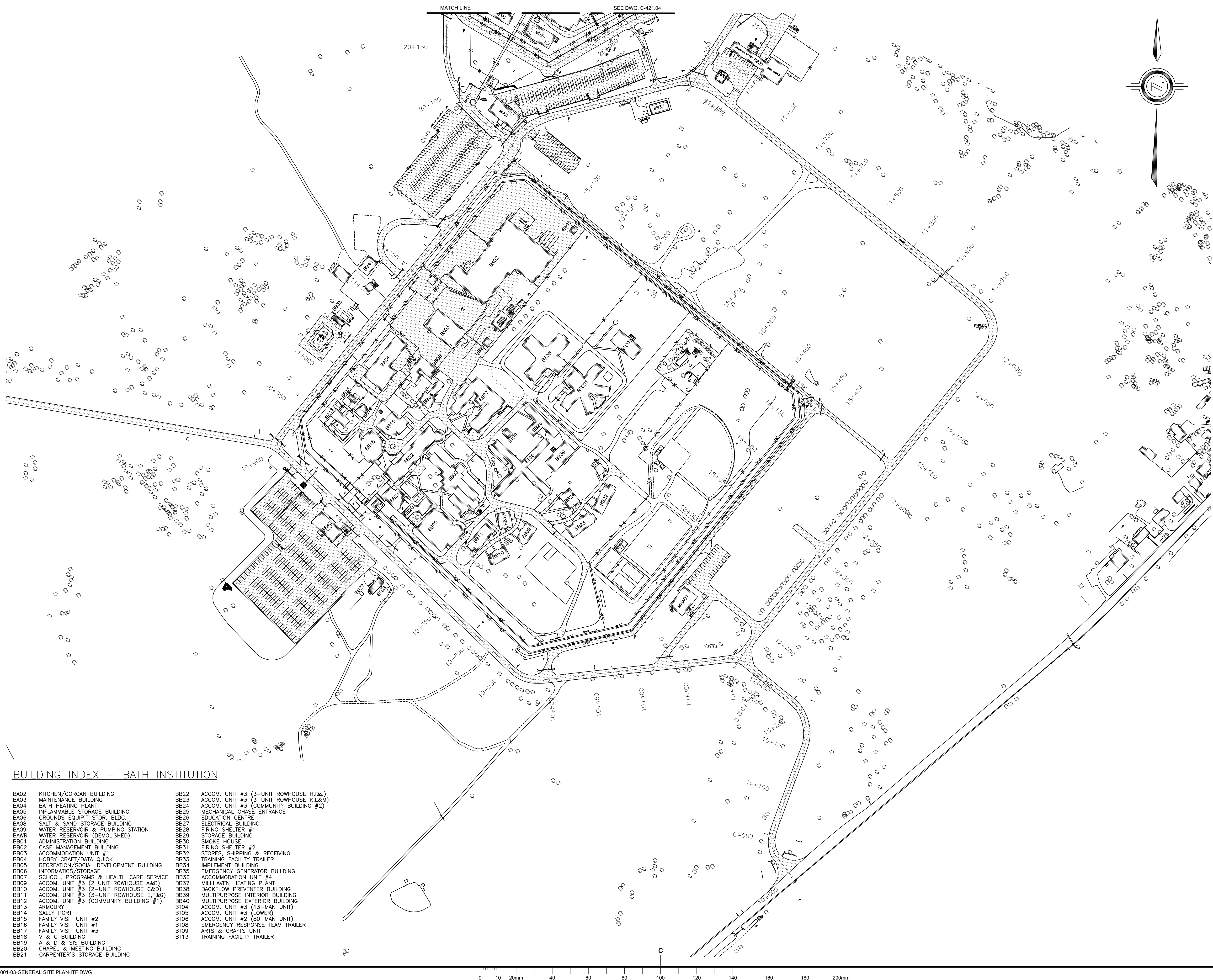
LAWRENCE YAREMA
Project Manager Administrateur de projets

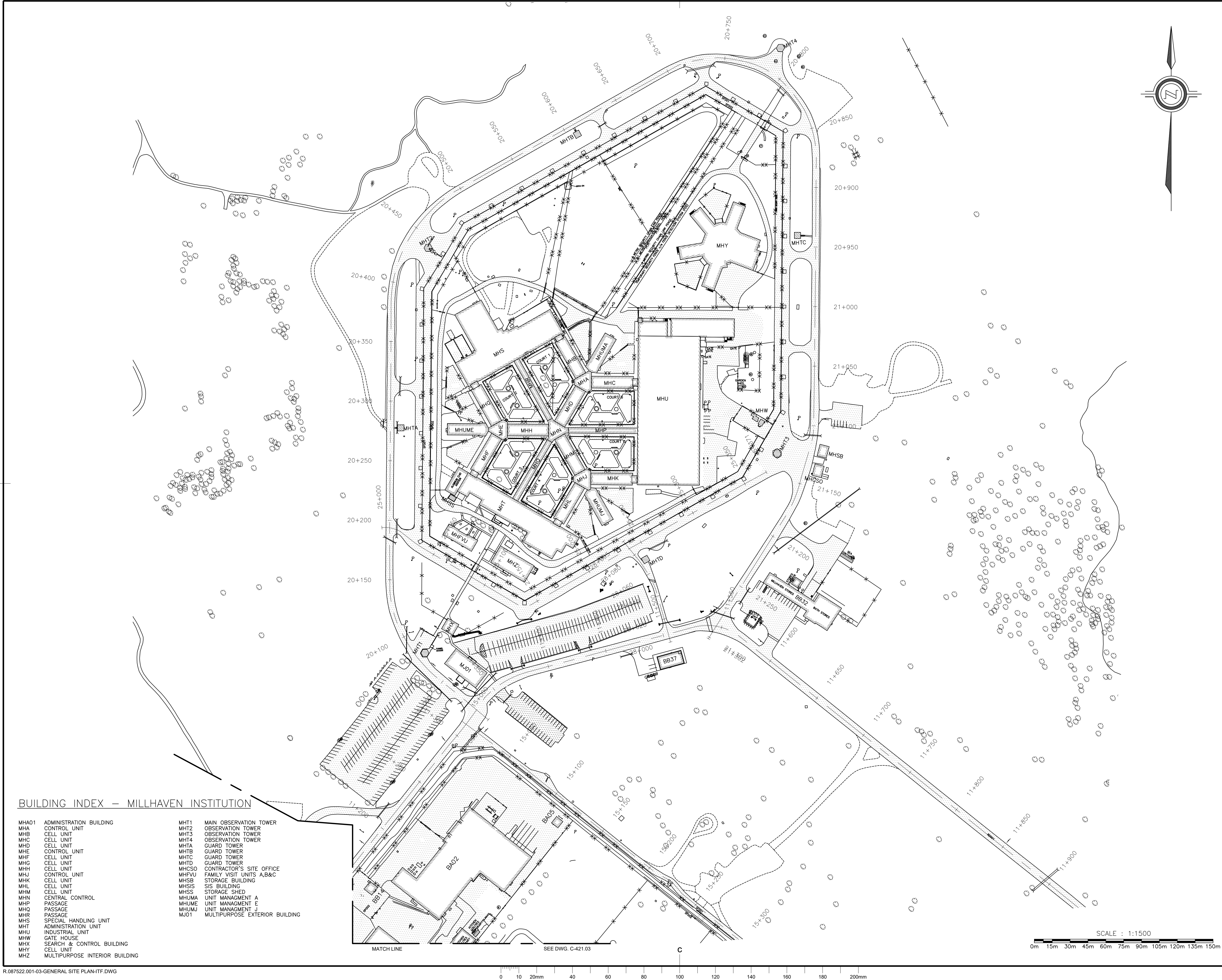
Project no. No. du projet

R.087522.001

Drawing no. No. du dessin

C-421.02





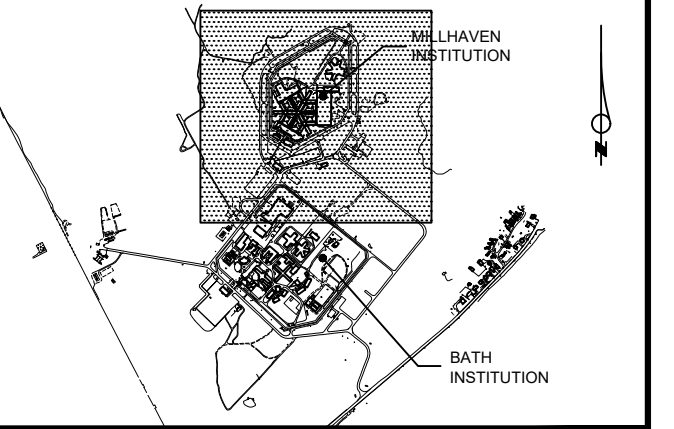
BUILDING INDEX – MILLHAVEN INSTITUTION

- | | | | |
|-------|--------------------------------|-------|--------------------------------|
| MHA01 | ADMINISTRATION BUILDING | MHT1 | MAIN OBSERVATION TOWER |
| MHA | CONTROL UNIT | MHT2 | OBSERVATION TOWER |
| MHB | CELL UNIT | MHT3 | OBSERVATION TOWER |
| MHC | CELL UNIT | MHT4 | OBSERVATION TOWER |
| MHD | CELL UNIT | MHTA | GUARD TOWER |
| MHE | CONTROL UNIT | MHTB | GUARD TOWER |
| MHF | CELL UNIT | MHTC | GUARD TOWER |
| MHG | CELL UNIT | MHTD | GUARD TOWER |
| MHH | CELL UNIT | MHCSO | CONTRACTOR'S SITE OFFICE |
| MHU | CONTROL UNIT | MHFVU | FAMILY VISIT UNITS A,B&C |
| MHK | CELL UNIT | MHSB | STORAGE BUILDING |
| MHL | CELL UNIT | MHSIS | SIS BUILDING |
| MHM | CELL UNIT | MHSS | STORAGE SHED |
| MHN | CENTRAL CONTROL | MHUMA | UNIT MANAGEMENT A |
| MHP | PASSAGE | MHUME | UNIT MANAGEMENT E |
| MHQ | PASSAGE | MHUMJ | UNIT MANAGEMENT J |
| MHR | PASSAGE | MJ01 | MULTIPURPOSE EXTERIOR BUILDING |
| MHS | SPECIAL HANDLING UNIT | | |
| MHT | ADMINISTRATION UNIT | | |
| MHU | INDUSTRIAL UNIT | | |
| MHW | GATE HOUSE | | |
| MHX | SEARCH & CONTROL BUILDING | | |
| MHY | CELL UNIT | | |
| MHZ | MULTIPURPOSE INTERIOR BUILDING | | |

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1	ISSUED FOR BID	21/06/07
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revisions	description	date
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B	B location drawing no. sur dessin no.	B
C	C drawing no. dessin no.	C

project project

BATH AND MILLHAVEN
INSTITUTION FACILITIES
ROAD RESURFACING

BATH, ONTARIO

drawing dessin

GENERAL SITE LAYOUT
MILLHAVEN INSTITUTION

Designed By	JACOB LAMB	Conçu par
Date	2021-03-01	(yyyy/mm/dd)
Drawn By	TAPIWA ZIYENG	Dessiné par
Date	2021-03-01	(yyyy/mm/dd)
Reviewed By	JASON STAHL	Examiné par
Date	2021-03-01	(yyyy/mm/dd)
Approved By	YYYY-MM-DD	Approuvé par
Date	YYYY-MM-DD	(yyyy/mm/dd)
Bid		Soumission

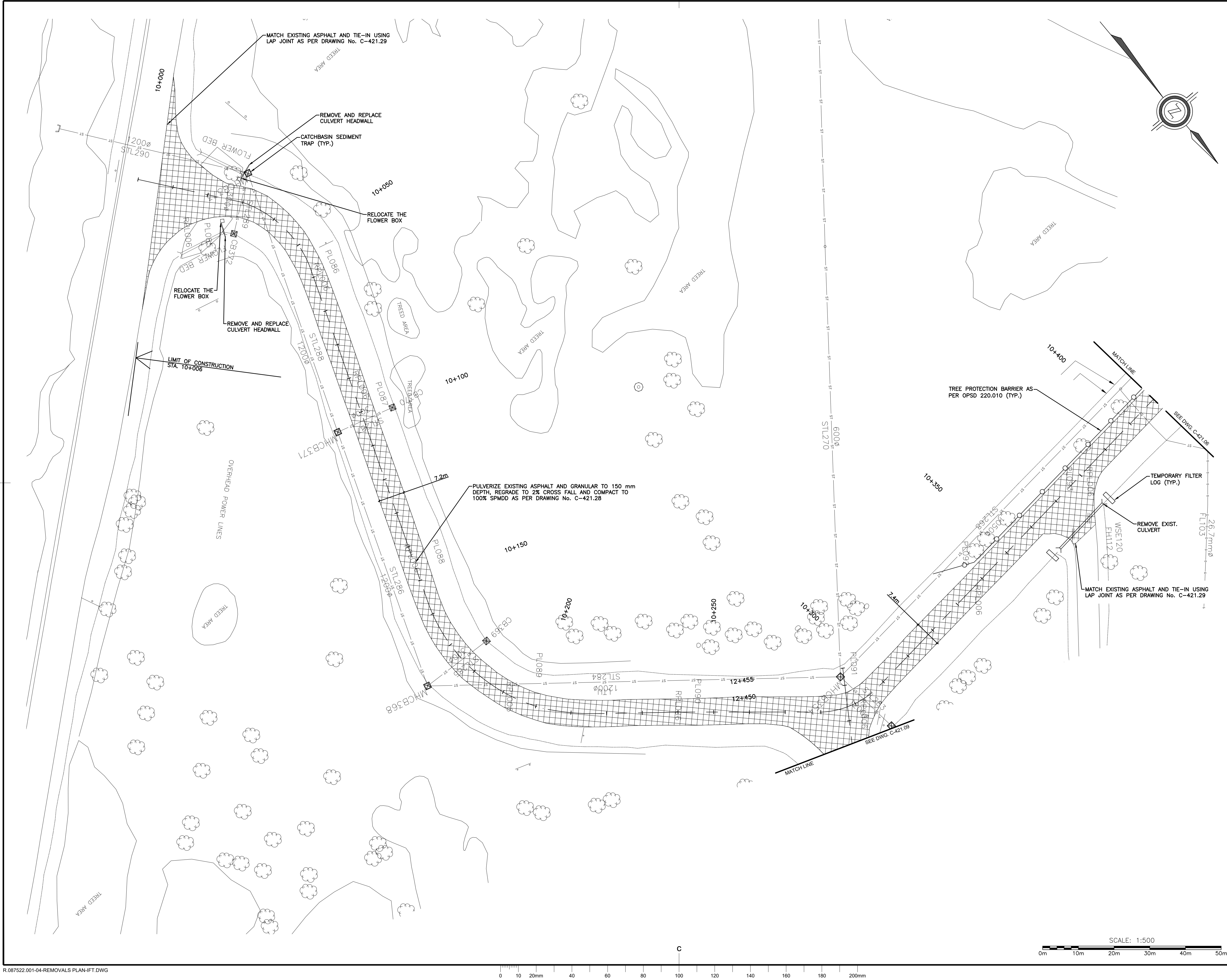
LAWRENCE YAREMA
Project Manager Administrateur de projets

Project no. No. du projet

R.087522.001

Drawing no. No. du dessin

C-421.04

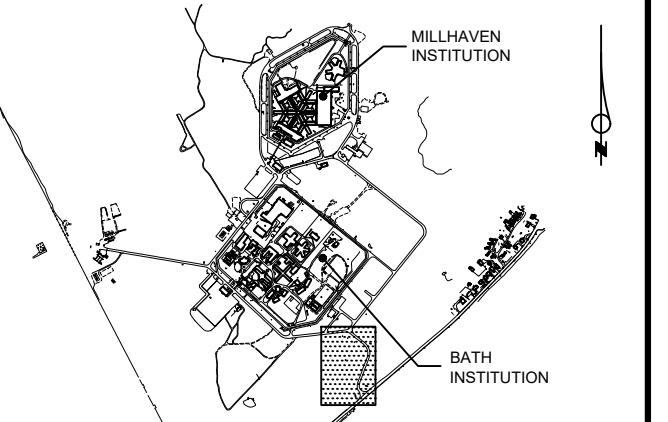


R.087522.001-04-REMOVALS PLAN-IFT.DWG

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revisions	description	date
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C	B location drawing no.	
	C drawing no.	

project

BATH AND MILLHAVEN
INSTITUTION FACILITIES
ROAD RESURFACING

BATH, ONTARIO

drawing

REMOVALS PLAN - BATH
INSTITUTION STA.
10+000 TO STA. 10+410

Designed By	JACOB LAMB	Conçu par
Date	2021-03-01	(yyyy/mm/dd)
Drawn By	TAPIWA ZIYENG	Dessiné par
Date	2021-03-01	(yyyy/mm/dd)
Reviewed By	JASON STAHL	Examiné par
Date	2021-03-01	(yyyy/mm/dd)
Approved By	YYYY-MM-DD	Approuvé par
Date	YYYY-MM-DD	(yyyy/mm/dd)
Bid		Soumission

LAWRENCE YAREMA
Project Manager

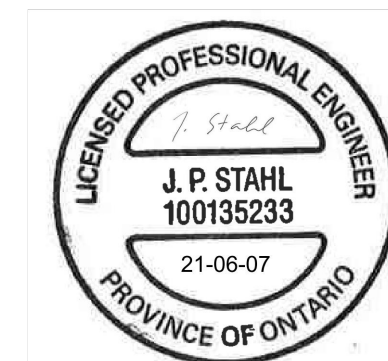
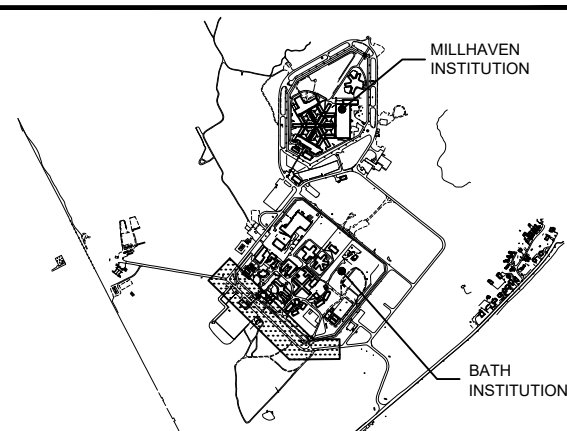
Project no.

Drawing no.

C-421.05



 Public Works and
Government Services
Canada



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

1	ISSUED FOR BID	21/06/07
revisions	description	date

A detail no.
no. du detail

B location drawing no.
sur dessin no.

C drawing no.
dessin no.

project project

BATH AND MILLHAVEN INSTITUTION FACILITIES ROAD RESURFACING

BATH, ONTARIO

drawing dessin

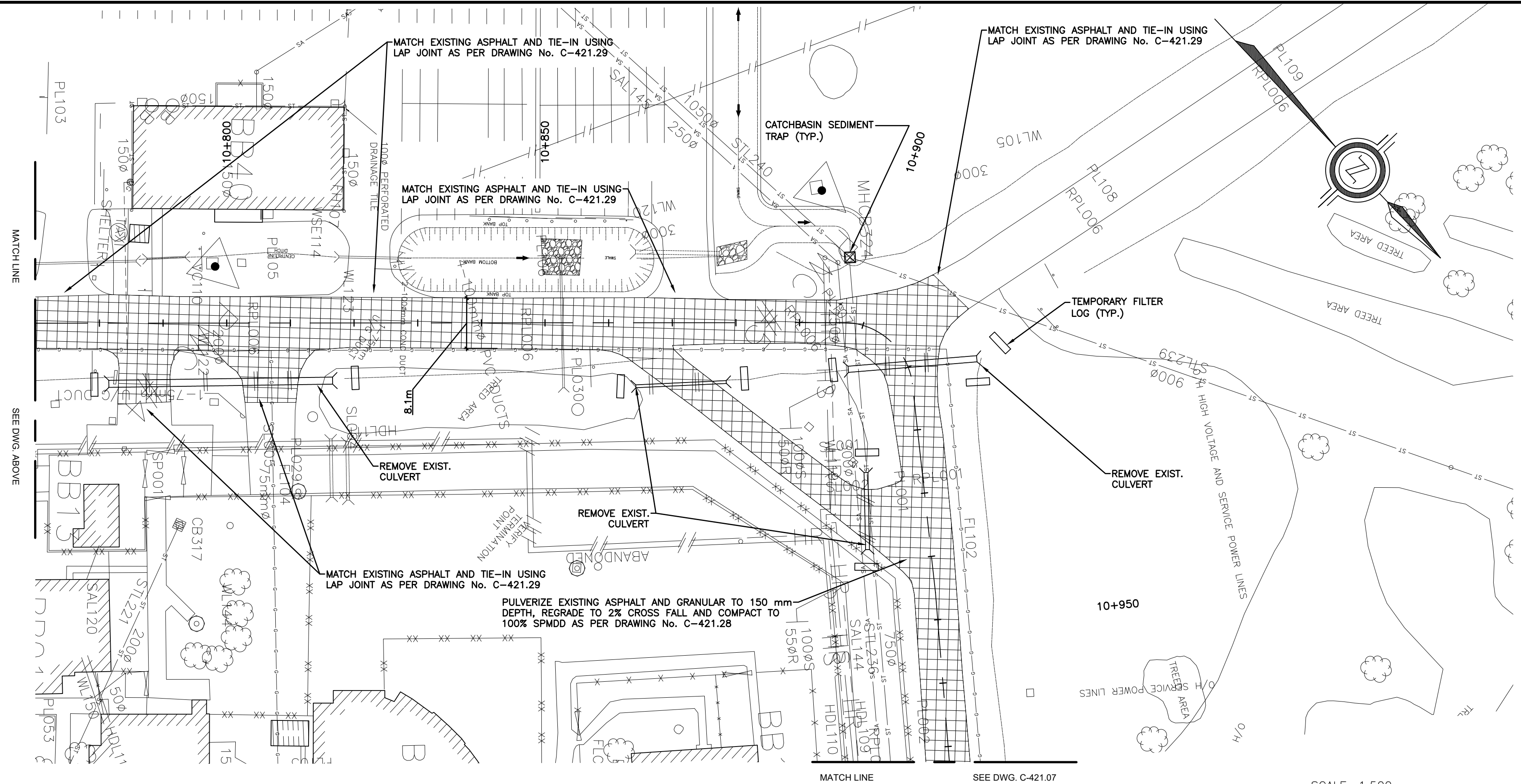
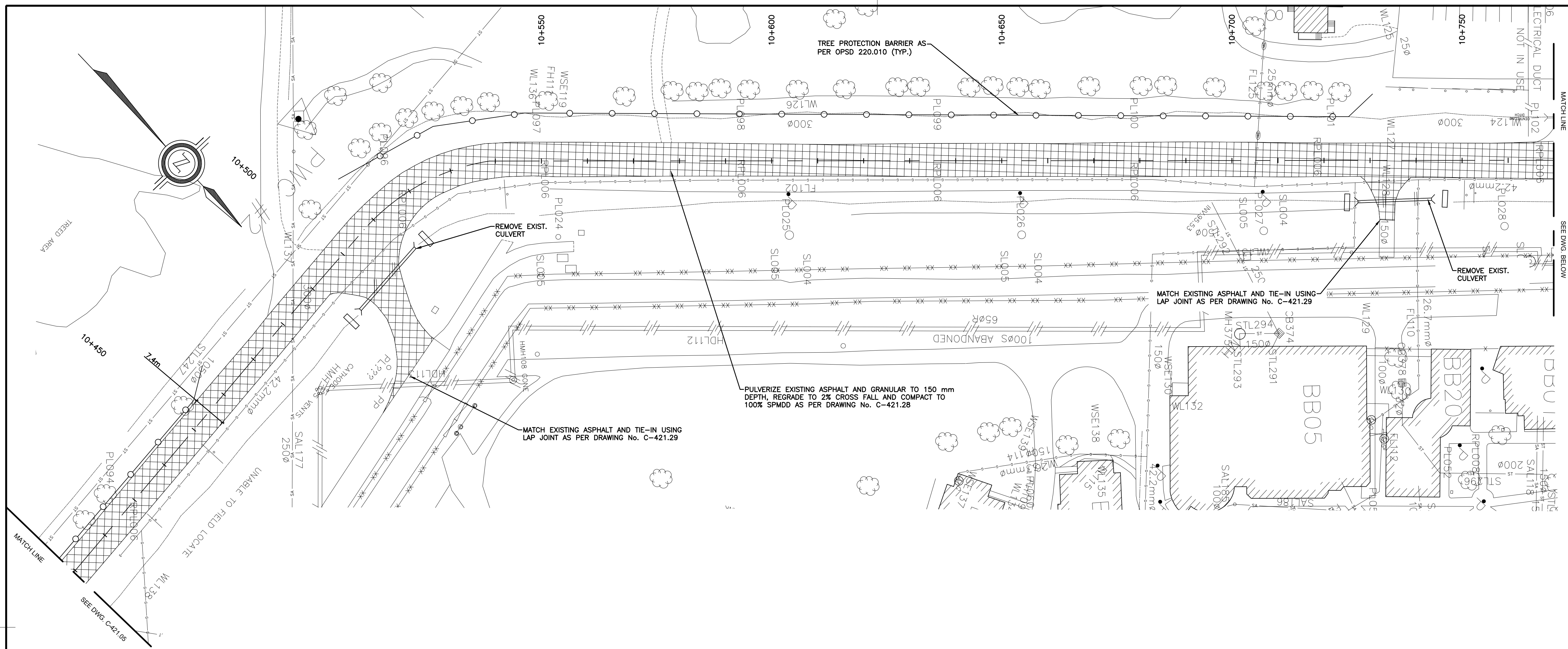
REMOVALS PLAN - BATH
INSTITUTION STA.
10+410 TO STA. 10+970

Designed By	JACOB LAMB	Conçu par
Date	2021-03-01	(yyyy/mm/dd)
Drawn By	TAPIWA ZIYENGE	Dessiné par
Date	2021-03-01	(yyyy/mm/dd)
Reviewed By	JASON STAHL	Examiné par
Date	2021-03-01	(yyyy/mm/dd)
Approved By		Approuvé par
Date	YYYY-MM-DD	(yyyy/mm/dd)
Bid		Soumission

R.087522.001

Drawing no.	No. du dessin
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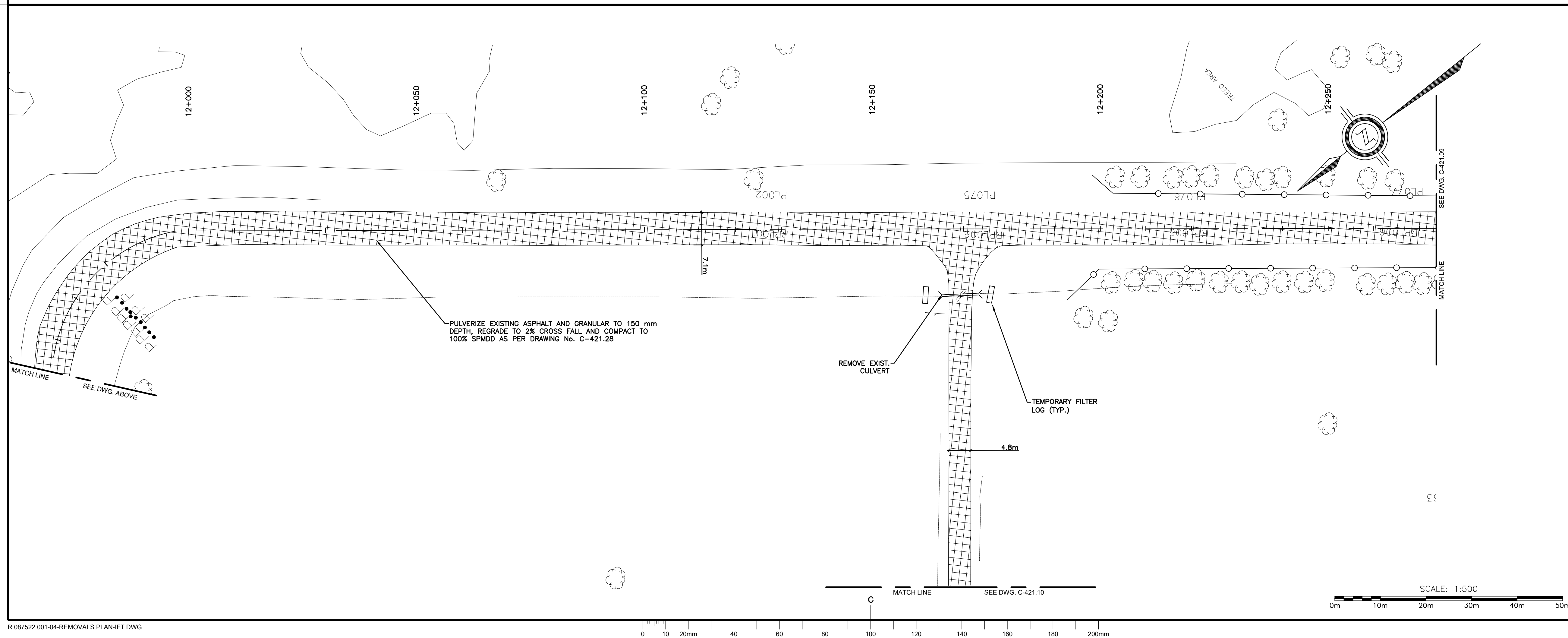
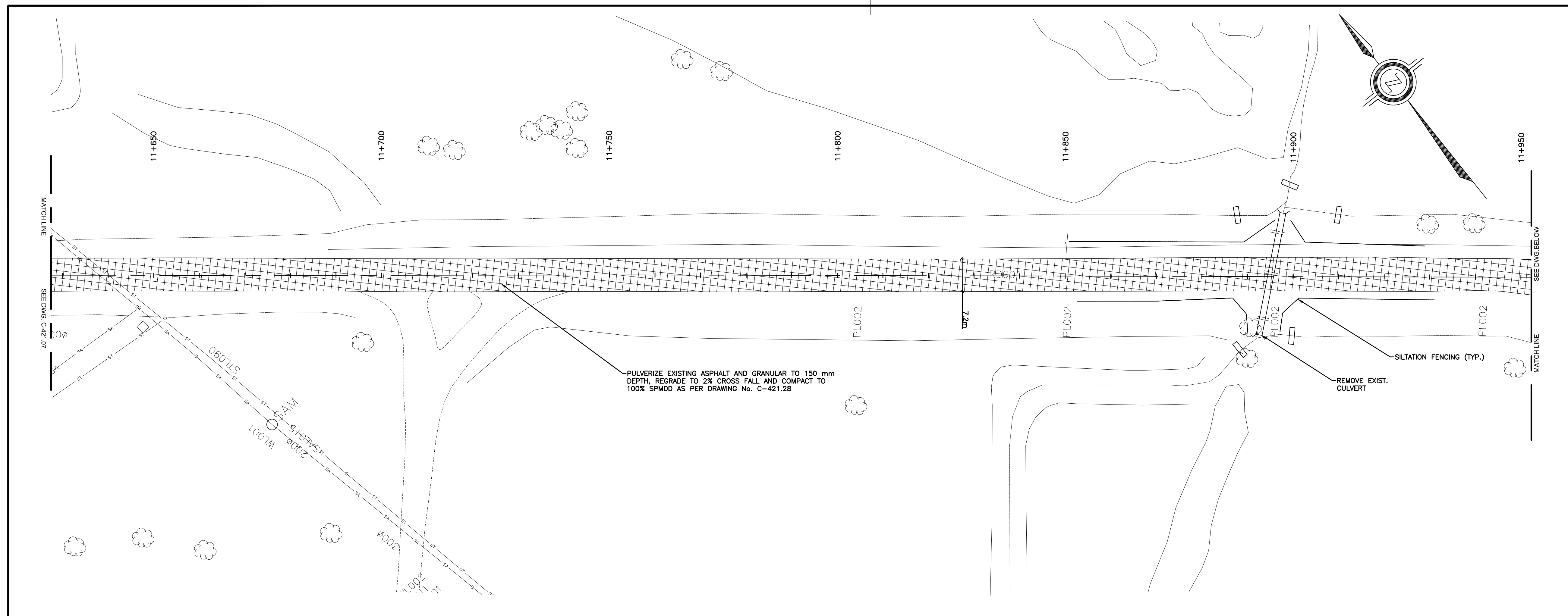
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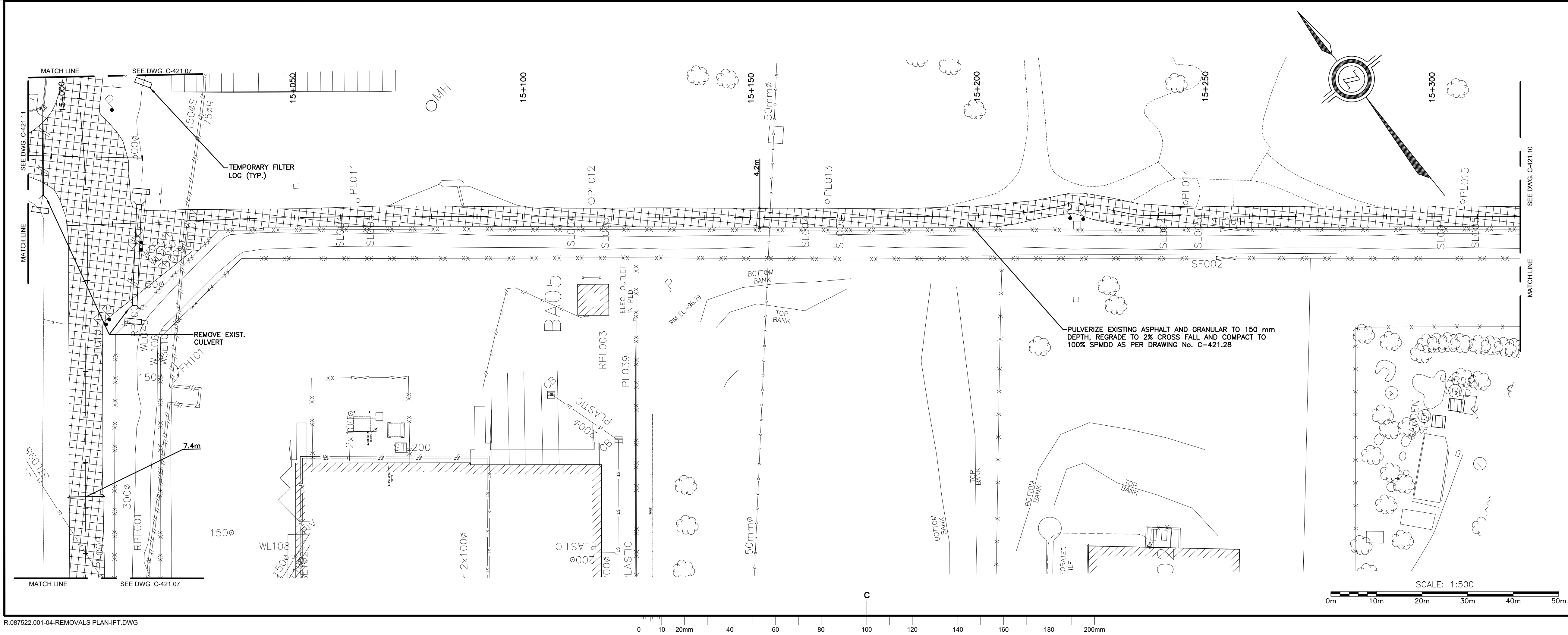
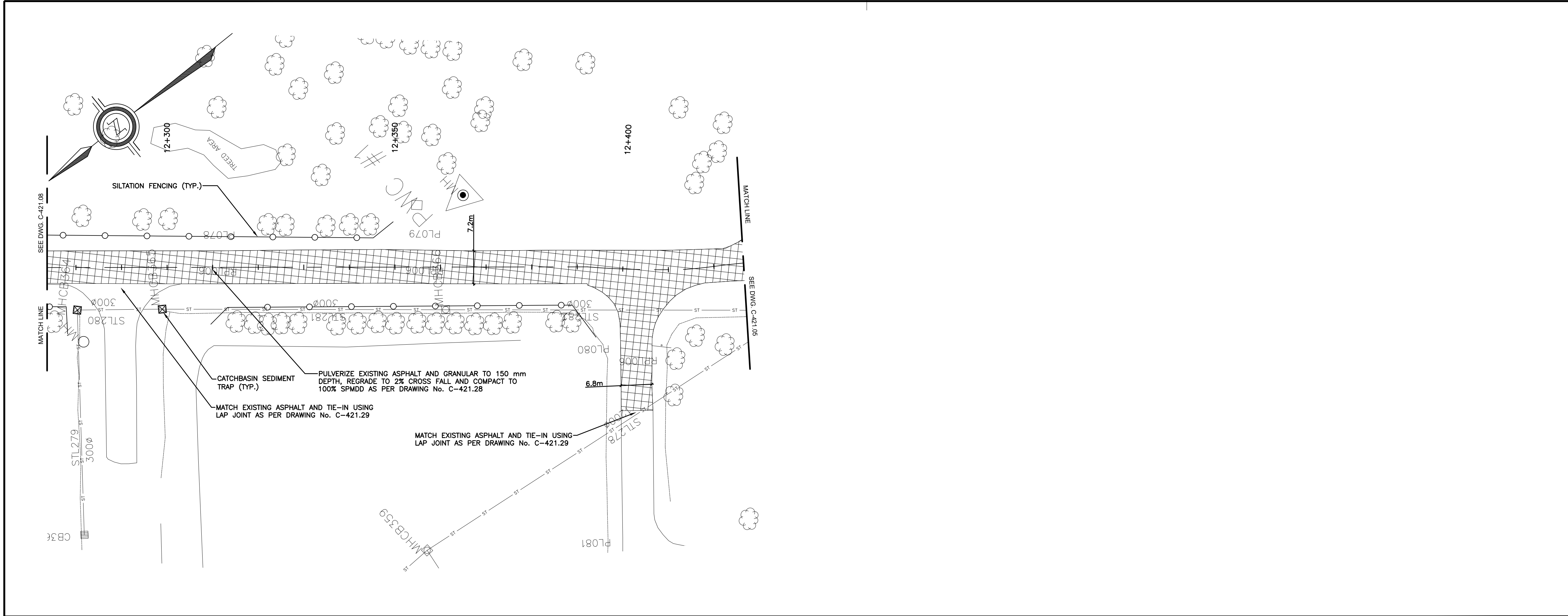



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R.087522.001-04-REMOVALS PLAN-IFT.DWG

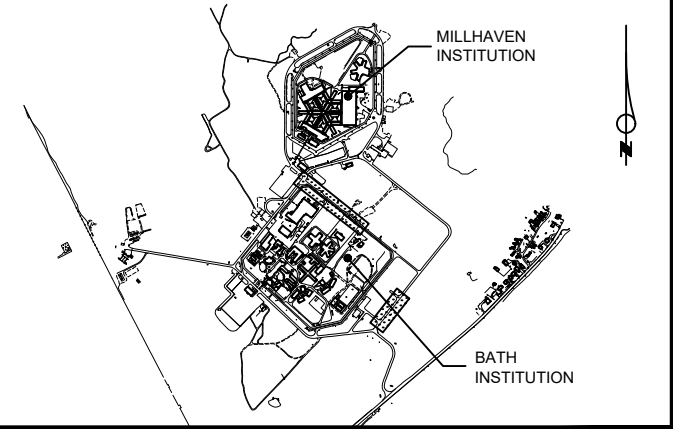







Public Works and
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services gouvernementaux
Canada







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

1	ISSUED FOR BID	21/06/07
revisions	description	date
A	A detail no.	A
C	B location drawing no.	B
	C drawing no.	C
project		project
BATH AND MILLHAVEN INSTITUTION FACILITIES ROAD RESURFACING		
BATH, ONTARIO		
drawing		dessin
REMOVALS PLAN - BATH INSTITUTION STA. 15+000 TO STA. 15+320		
Designed By	JACOB LAMB	Conçu par
Date	2021-03-01	(yyyy/mm/dd)
Drawn By	TAPIWA ZIYENGE	Dessiné par
Date	2021-03-01	(yyyy/mm/dd)
Reviewed By	JASON STAHL	Examiné par
Date	2021-03-01	(yyyy/mm/dd)
Approved By	YYYY-MM-DD	Approuvé par
Date	YYYY-MM-DD	(yyyy/mm/dd)
Bid		Soumission
Project Manager	LAWRENCE YAREMA	Administrateur de projets
Project no.		No. du projet
R.087522.001		
Drawing no.		No. du dessin
C-421.09		

[illegible]

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dessin no.

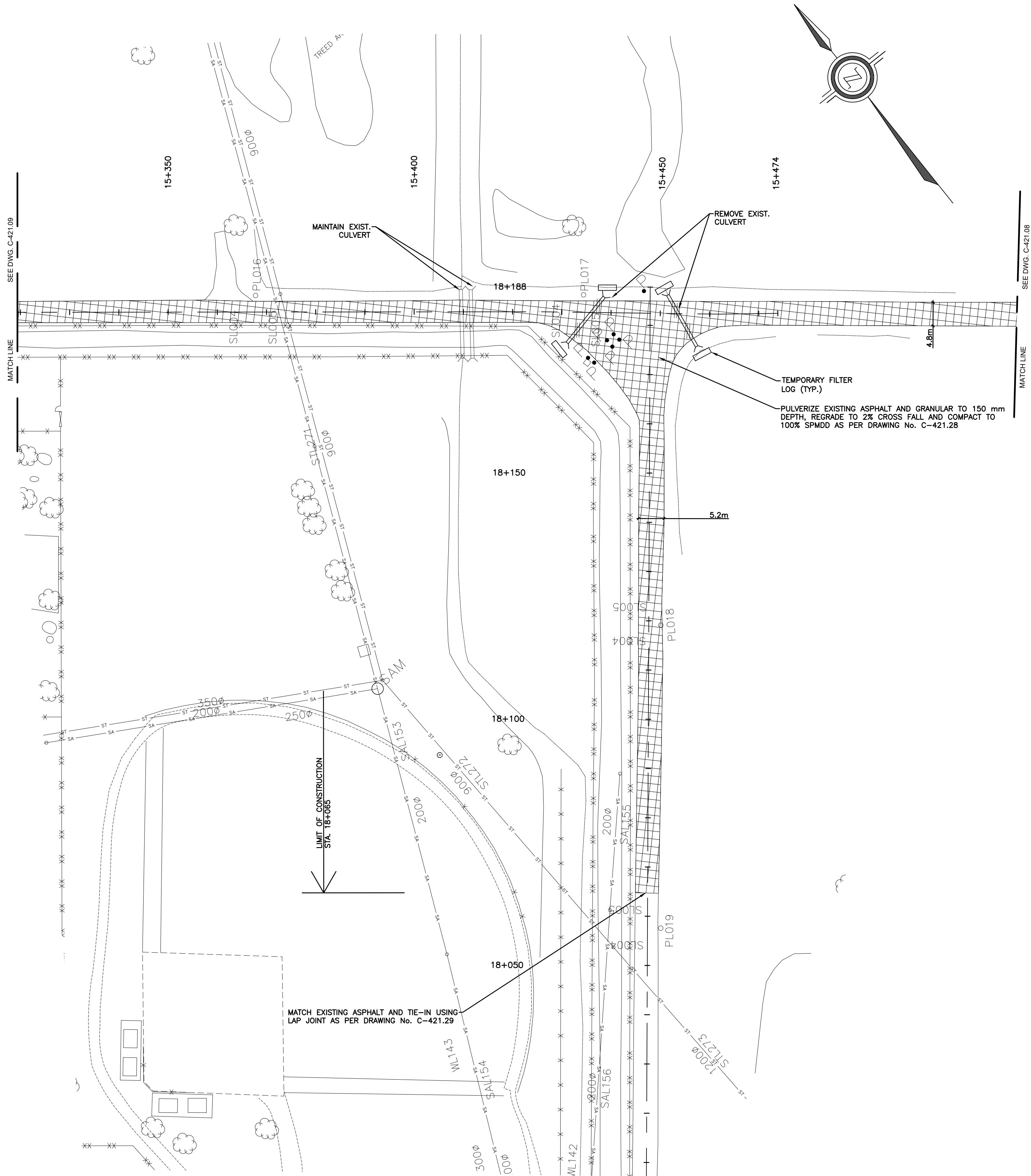

BATH AND MILLHAVEN INSTITUTION FACILITIES ROAD RESURFACING

REMOVALS PLAN - BATH
INSTITUTION STA.
15+320 TO STA. 15+474

LAWRENCE YAREMA	
Project Manager	Administrateur de projets
Project no.	No. du projet

rawing no.	No. du dessin
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SCALE: 1:500



C

R.087522.001-04-REMOVALS PLAN-IFT.DWG