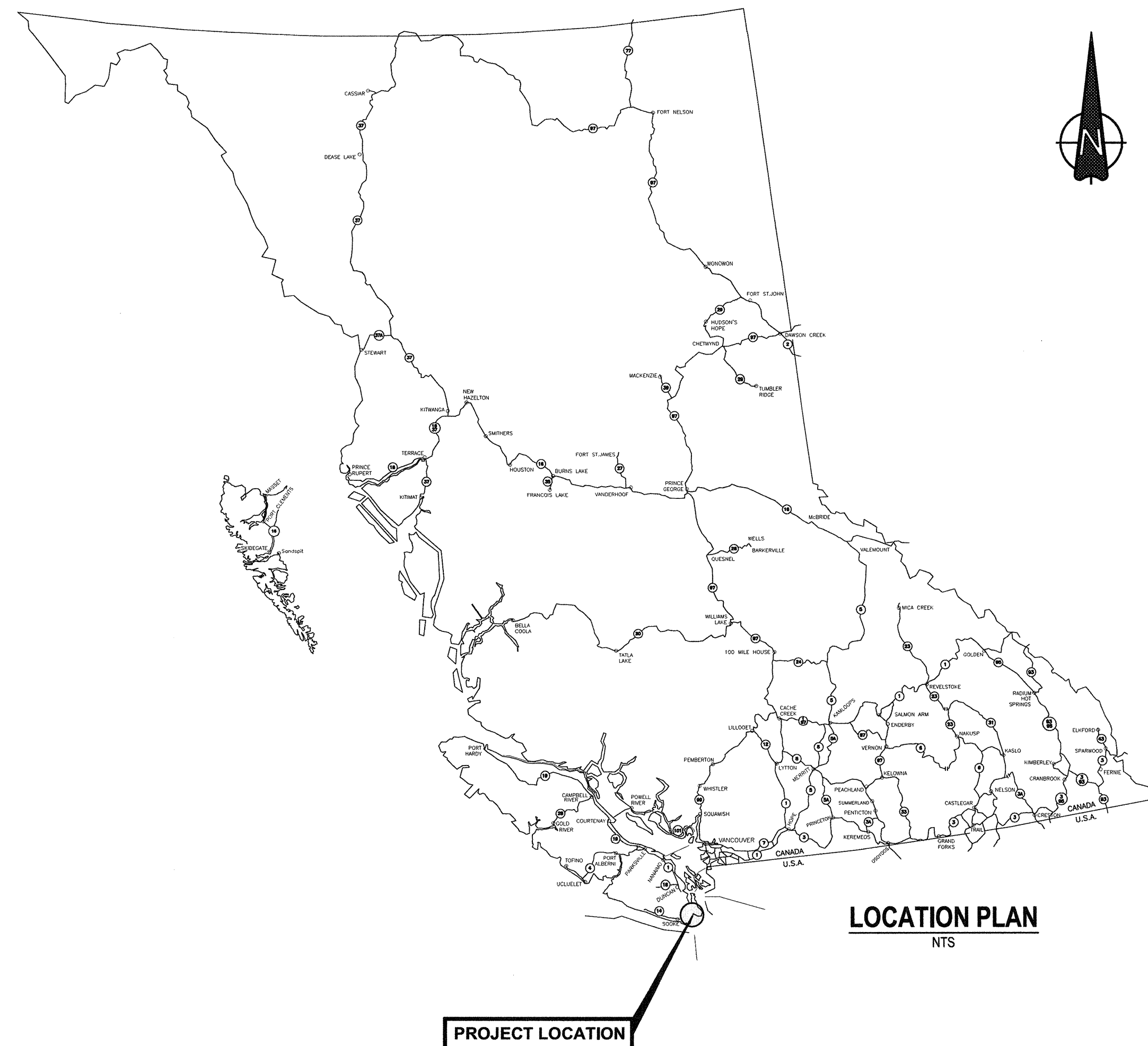
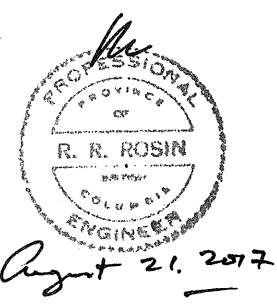


FORT RODD HILL NATIONAL HISTORIC SITE EXISTING UTILITY REHABILITATION



DRAWING INDEX		
SHEET No.	DRAWING NUMBER	DESCRIPTION
GENERAL DRAWINGS		
01	R.081111.001-001	COVER SHEET, LOCATION PLAN & DRAWING INDEX
02	R.081111.001-002	STAGING PLAN
03	R.081111.001-003	ASPHALT PATHWAY PAVING LIMITS
CIVIL DRAWINGS		
04	R.081111.001-101	PROPOSED WATER - INTERSECTION TO UPPER BATTERY - STA. 2+000 TO 2+080
05	R.081111.001-102	PROPOSED WATER - UPPER BATTERY - STA. 3+000 TO 3+150
06	R.081111.001-103	PROPOSED WATER - UPPER BATTERY TO LOWER BATTERY - STA. 4+000 TO 4+210
07	R.081111.001-104	PROPOSED WATER - BELMONT TRAIL - STA. 8+000 TO 8+060
08	R.081111.001-105	PROPOSED WATER - MEADOW - STA. 5+000 TO 5+200
09	R.081111.001-106	PROPOSED WATER - BELMONT & LOWER BATTERY - STA. 6+000 TO 6+200
10	R.081111.001-107	STANDARD DETAILS
11	R.081111.001-108	STANDARD DETAILS



Revision/Modification	Description/Description	Date/Date
5		
4		
3	TENDER ISSUE	17/08/21
2	ISSUED FOR 100% REVIEW	17/07/27
1	ISSUED FOR 90% REVIEW	17/07/14
0	ISSUED FOR 66% REVIEW	17/05/03

PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
**FORT RODD HILL NHS
 EXISTING UTILITY
 REHABILITATION**

Consultant Signature Only
 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWSSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY

**COVER SHEET, LOCATION PLAN
 & DRAWING INDEX**

Project No./No. du projet	Sheet/Feuille	Revision no./La révision no.
R.081111.001	1 OF 11	3



R. R. ROSIN
 August 21, 2012



5		
4		
3	TENDER ISSUE	17/08/21
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Client/client
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
 R. ROSIN

Designed by/Concept par
 S. CLARK

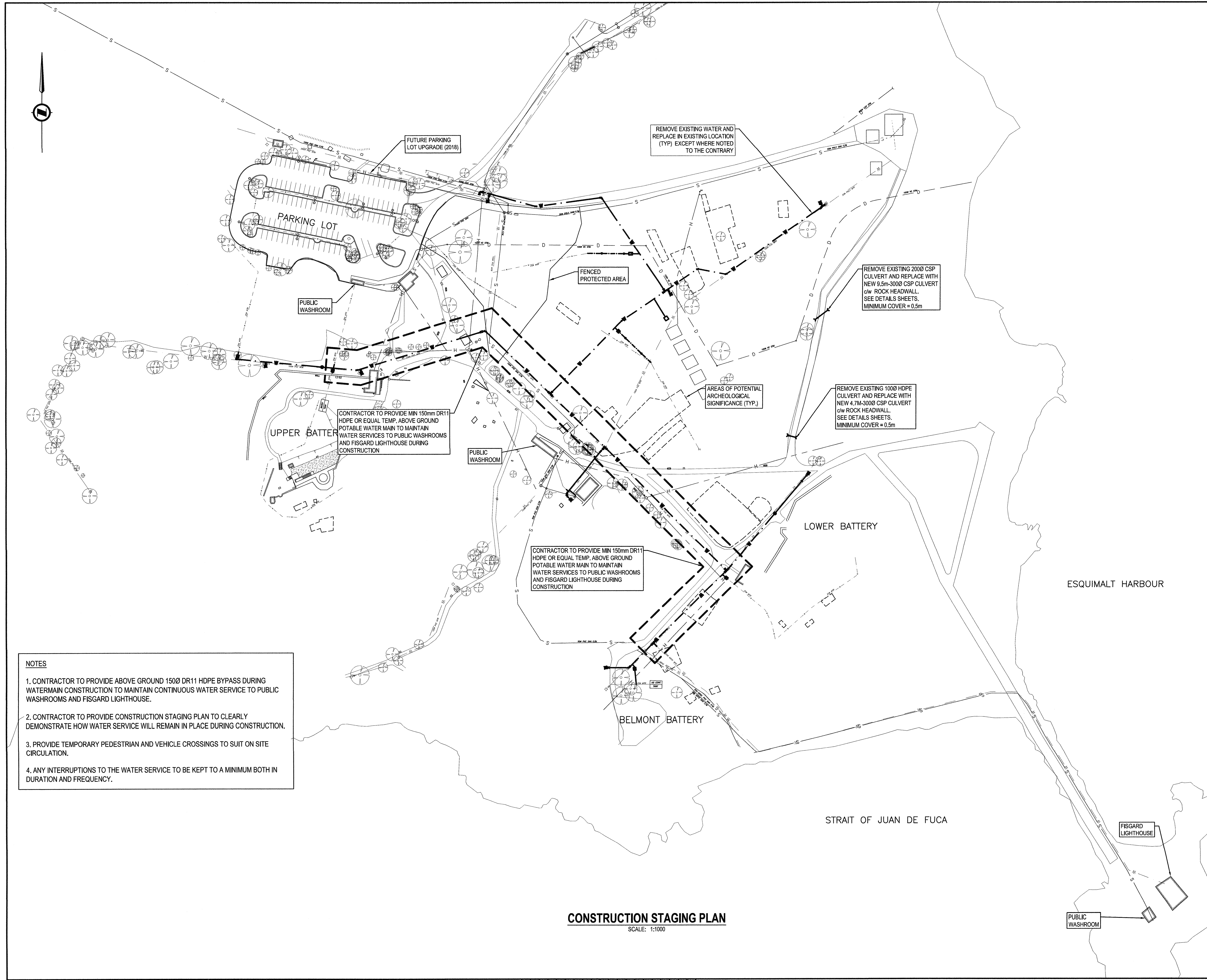
Drawn by/Dessiné par
 S. CLARK

PWSSC Project Manager/Administrateur de Projets TPSSC
 TOM DUNPHY

Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSSC
 TOM DUNPHY

Drawing title/Titre du dessin
STAGING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La révision no.
R.081111.001	2 OF 11	3

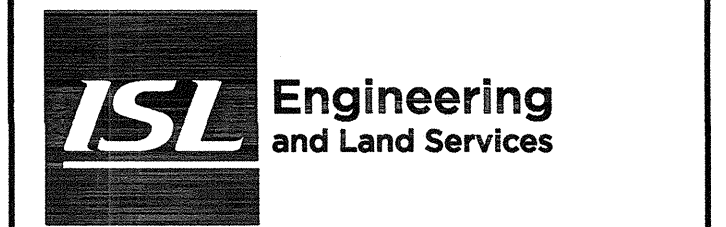
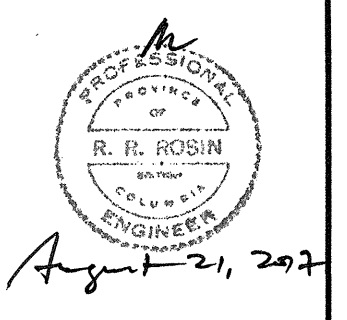
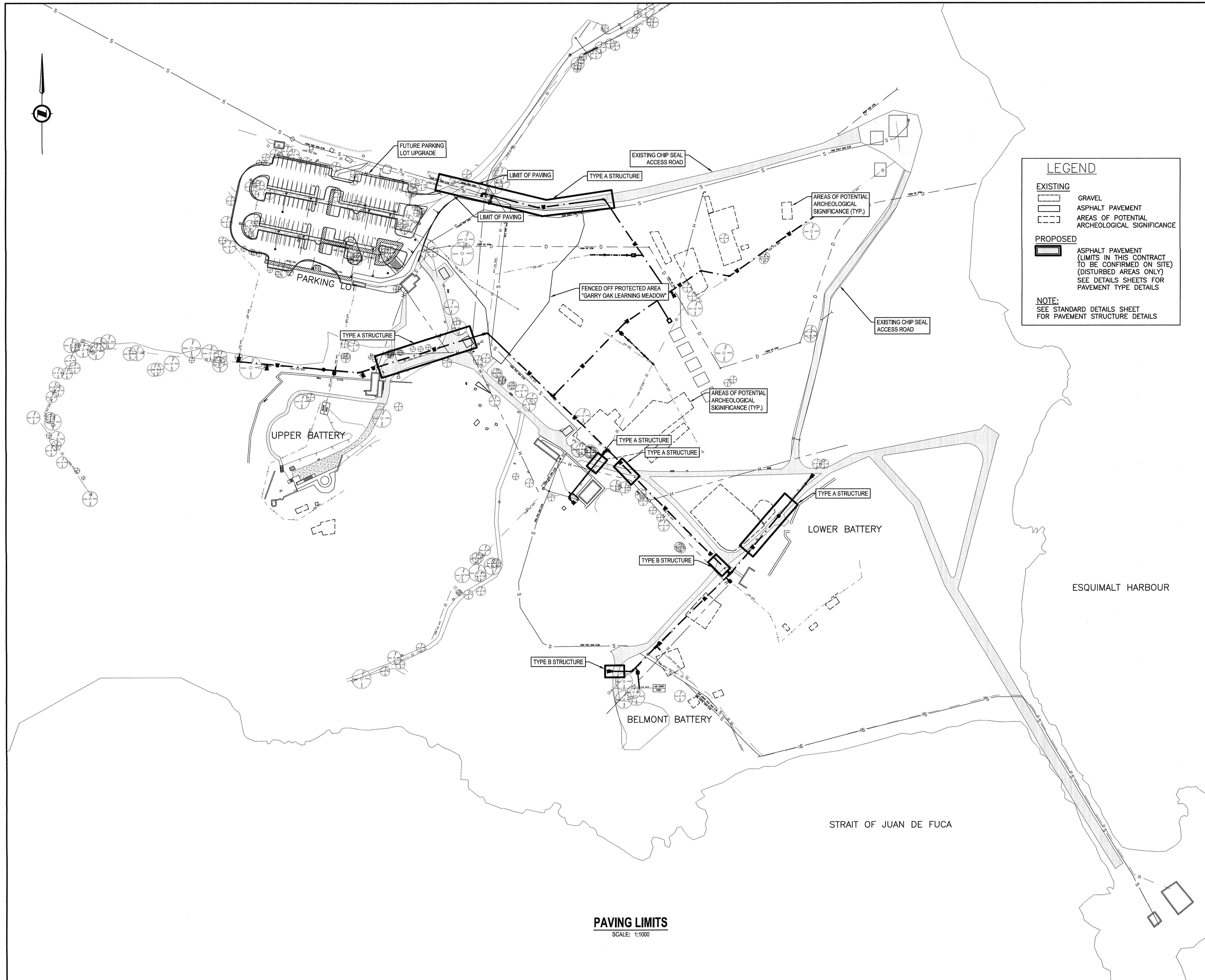


NOTES

1. CONTRACTOR TO PROVIDE ABOVE GROUND 150Ø DR11 HDPE BYPASS DURING WATERMAIN CONSTRUCTION TO MAINTAIN CONTINUOUS WATER SERVICE TO PUBLIC WASHROOMS AND FIGSGARD LIGHTHOUSE.
2. CONTRACTOR TO PROVIDE CONSTRUCTION STAGING PLAN TO CLEARLY DEMONSTRATE HOW WATER SERVICE WILL REMAIN IN PLACE DURING CONSTRUCTION.
3. PROVIDE TEMPORARY PEDESTRIAN AND VEHICLE CROSSINGS TO SUIT ON SITE CIRCULATION.
4. ANY INTERRUPTIONS TO THE WATER SERVICE TO BE KEPT TO A MINIMUM BOTH IN DURATION AND FREQUENCY.

CONSTRUCTION STAGING PLAN
 SCALE: 1:1000





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3	TENDER ISSUE	17/08/21
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1	ISSUED FOR 99% REVIEW	17/07/14
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PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BURRARD STREET
 VANCOUVER, BC, V6Z 0B9

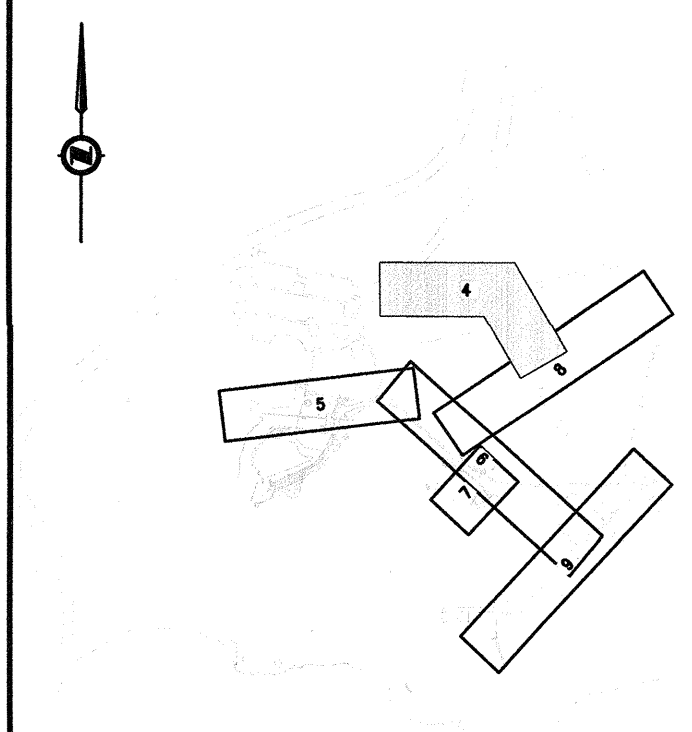
Project title/Titre du projet
**FORT RODD HILL NHS
 EXISTING UTILITY
 REHABILITATION**

Consultant Signature Only
 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY

Drawing title/Titre du dessin
ASPHALT PATHWAY PAVING LIMITS

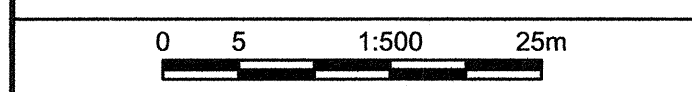
Project No./No. du projet R.081111.001	Sheet/Feuille 3 OF 11	Revision no./La révision no. 3
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KEYPLAN
SCALE: NTS

Professional Engineer
 R. R. ROSIN
 August 21, 2017



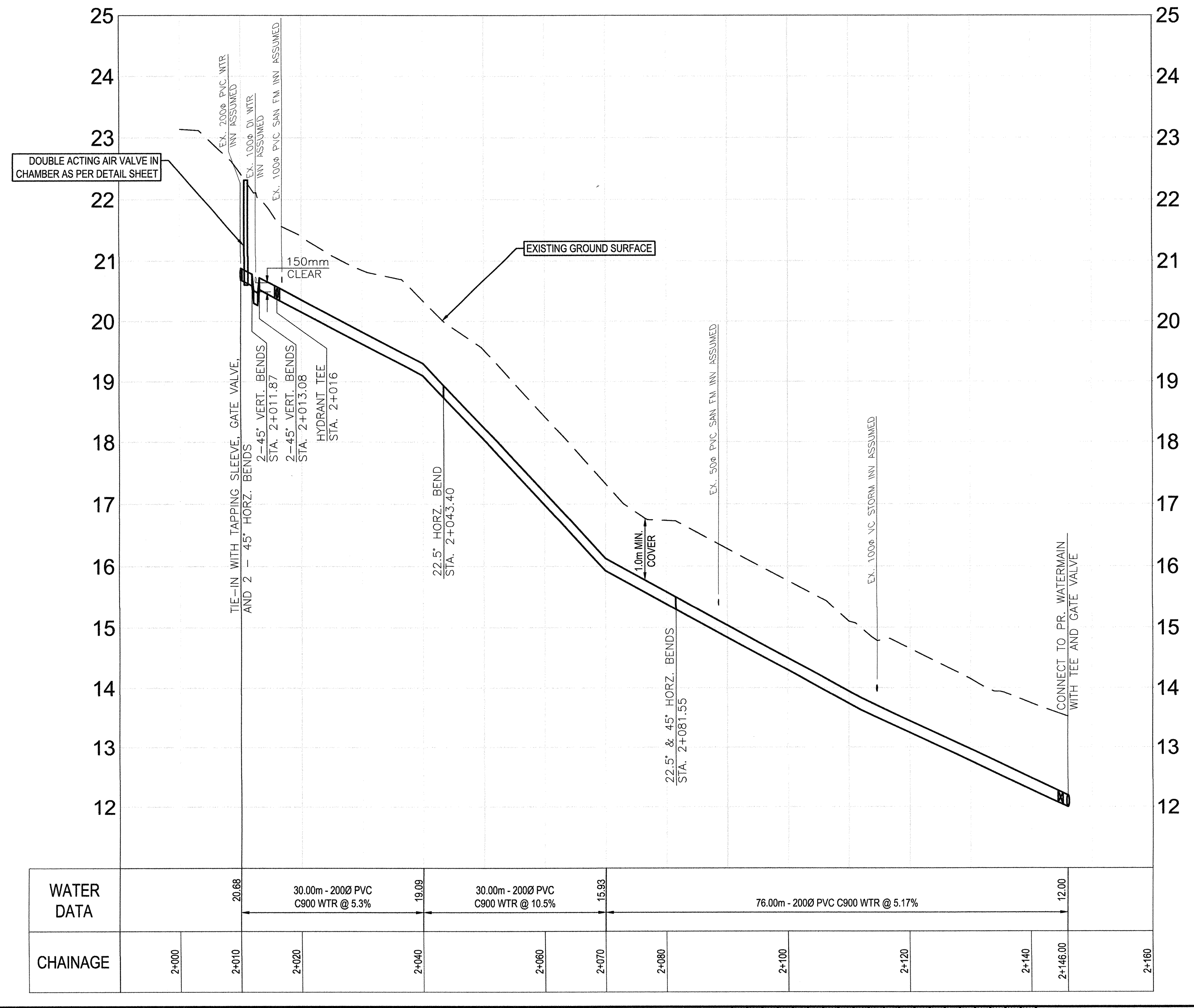
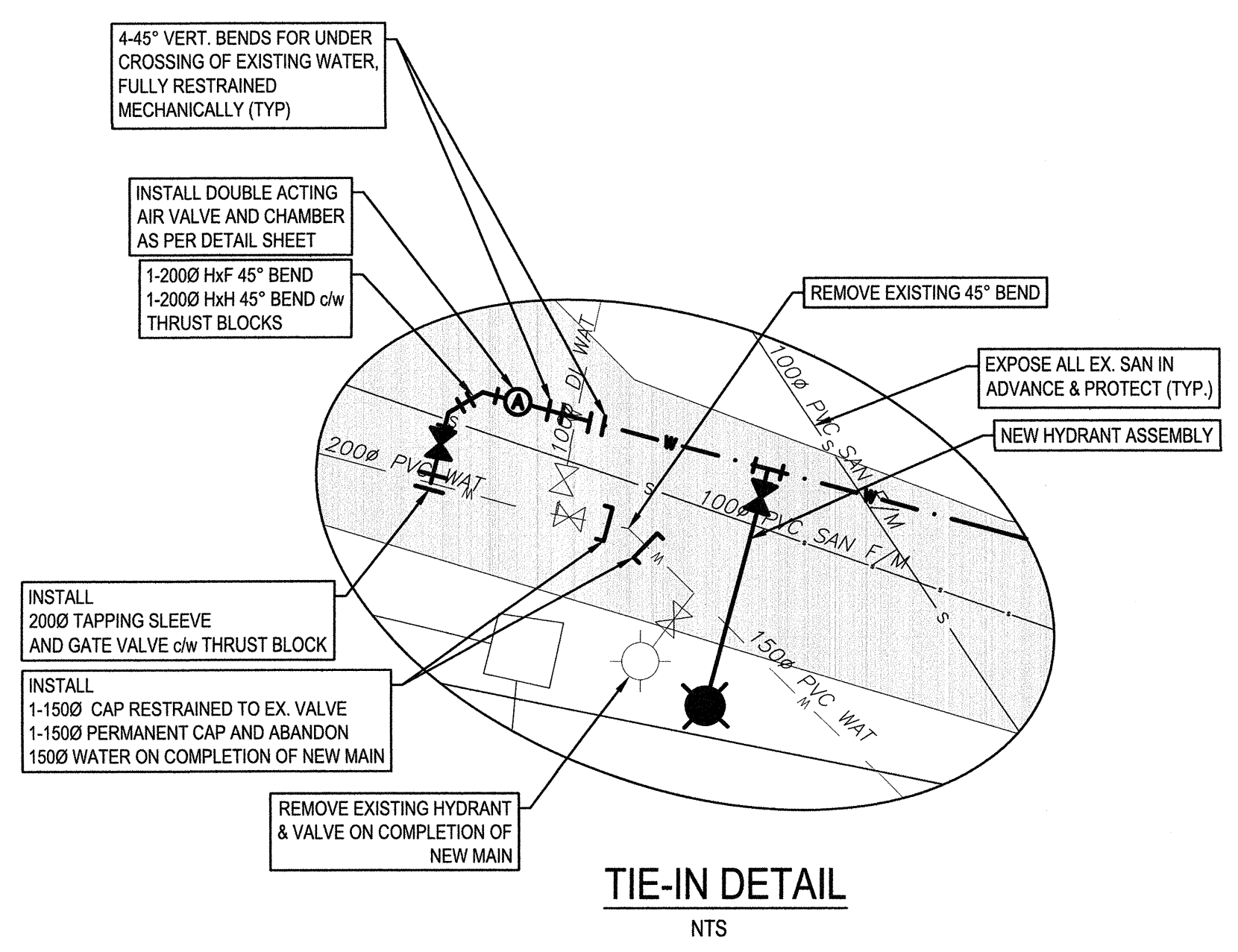
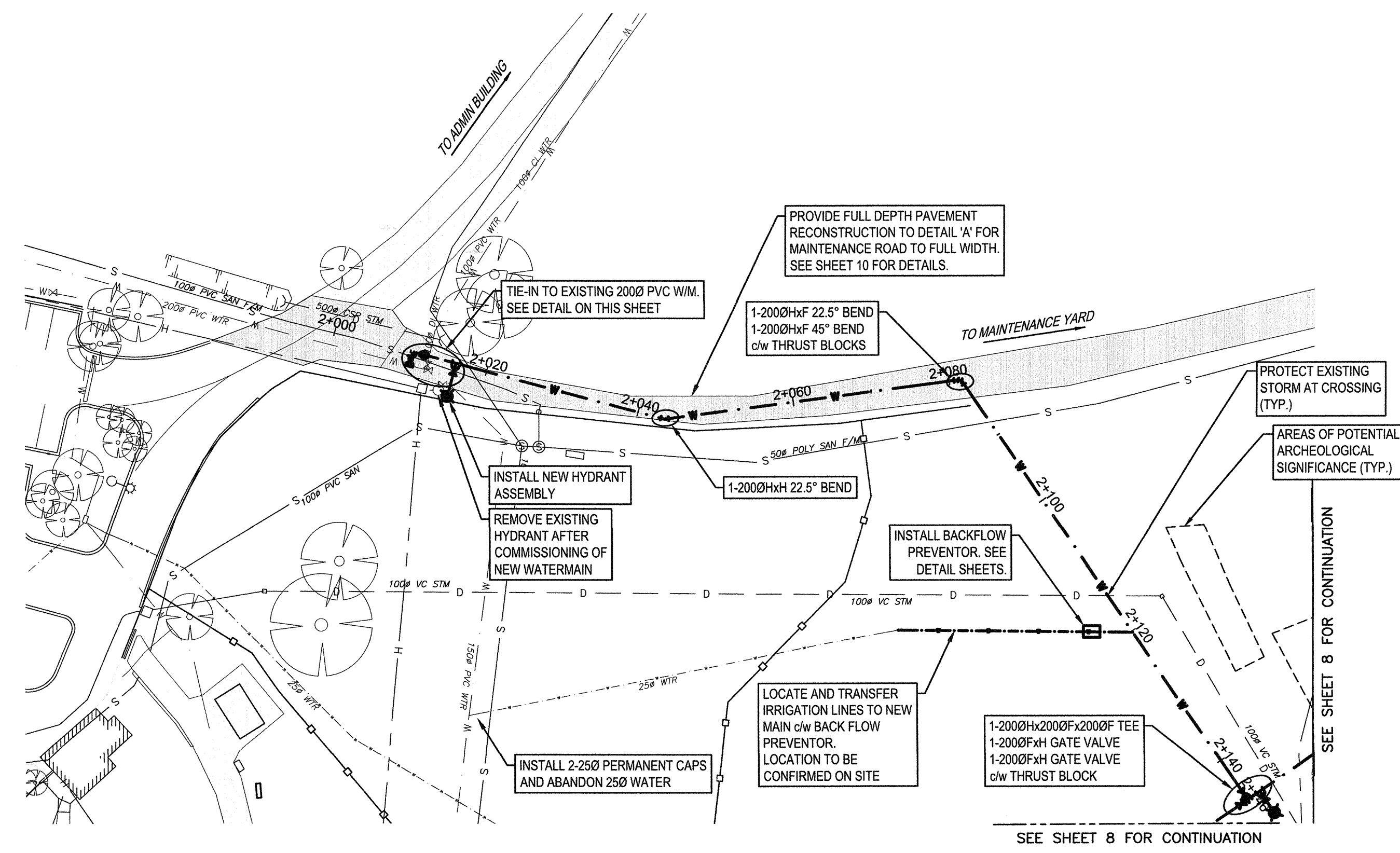
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Client/client
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY

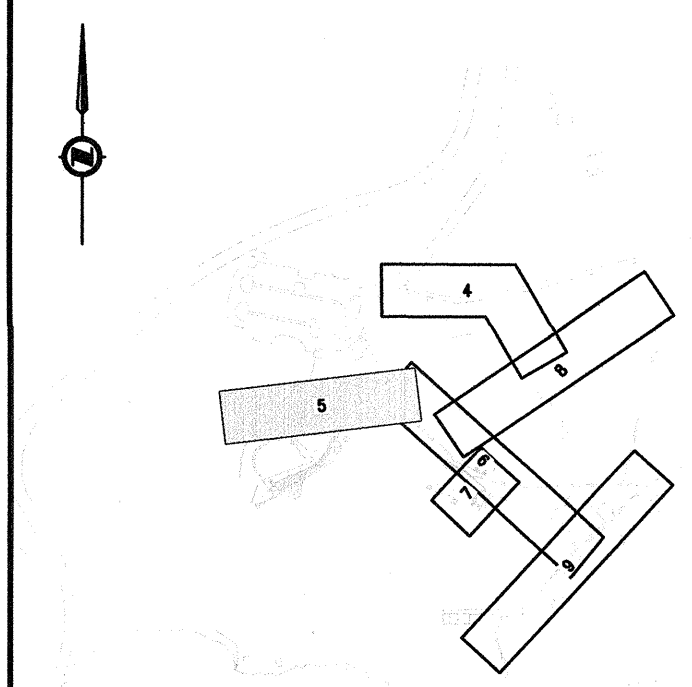
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PROPOSED WATER INTERSECTION TO UPPER BATTERY 2+000 TO 2+080
 Project No./No. du projet: R.081111.001
 Sheet/Feuille: 4 OF 11
 Revision no./La révision: 3



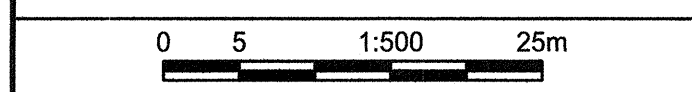
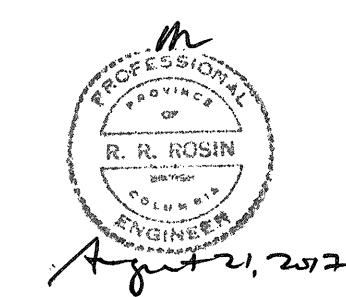
NOTES
 1. CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE DEPARTMENTAL REPRESENTATIVE OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
 2. EXISTING PROFILE OF SANITARY ASSUMED / UNKNOWN. TO BE CONFIRMED BY CONTRACTOR.
 3. EXISTING WATERMAIN PROFILE INTERPRETED FROM AVAILABLE RECORD DRAWINGS.
 4. CONTRACTOR TO PROVIDE ABOVE GROUND 1500 DR17 HDPE TEMPORARY BYPASS TO MAINTAIN CONTINUOUS WATER SERVICE.

2017/Aug/21, 6:05pm - PWSC - C:\Users\lvesum\AppData\Local\Temp\MapPublish_4128\311953 - FortRoddHill - Water - Storm.dwg





KEYPLAN
SCALE: NTS



Revision/Modification	Description/Description	Date/Date
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4		
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0	ISSUED FOR 66% REVIEW	17/05/03

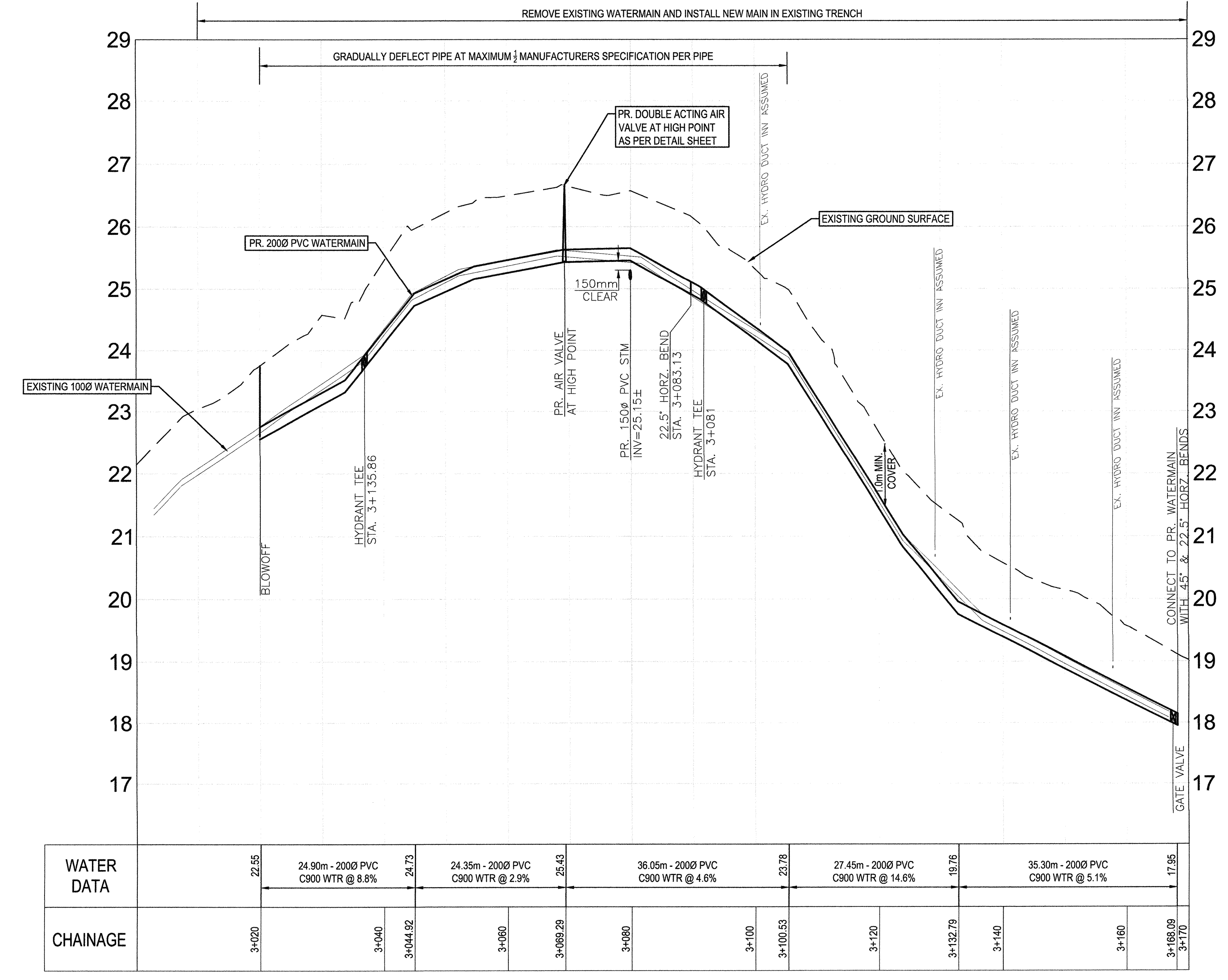
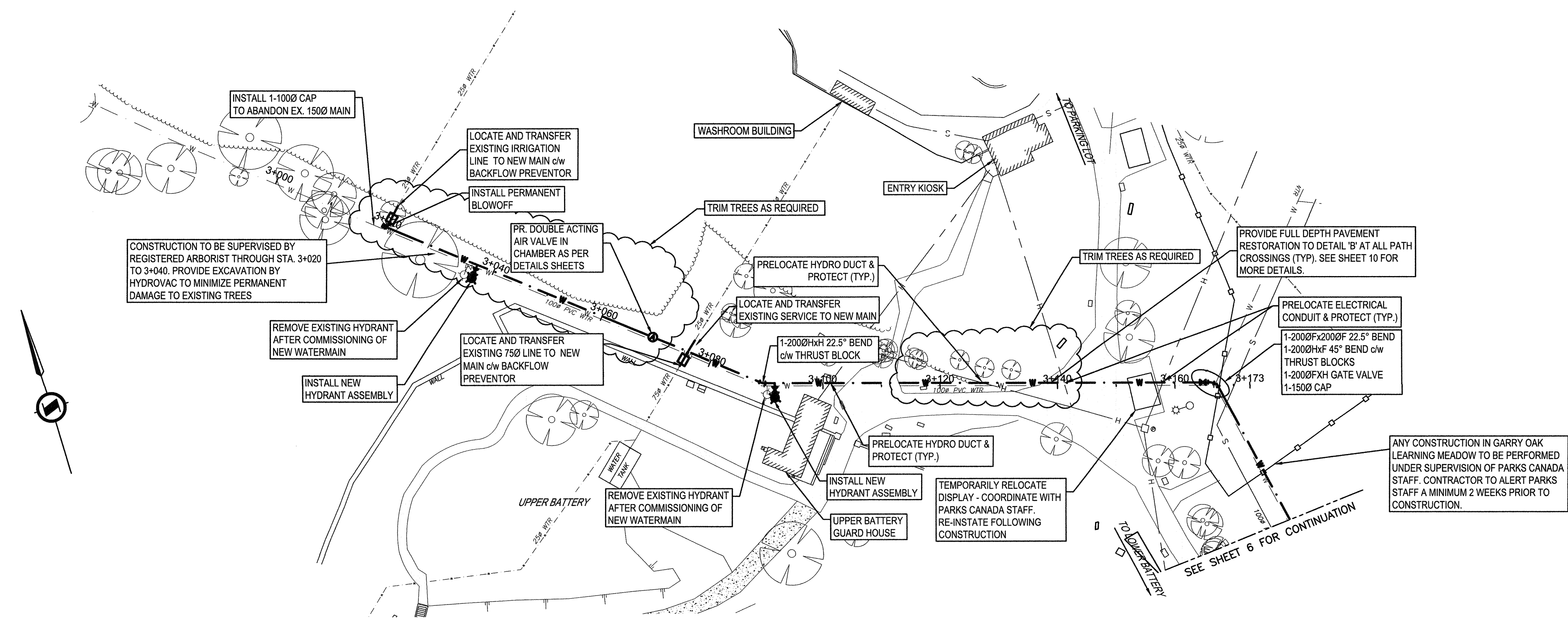
Client/client
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BURRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWGSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY
 Drawing title/Titre du dessin

PROPOSED WATER UPPER BATTERY 3+000 TO 3+150

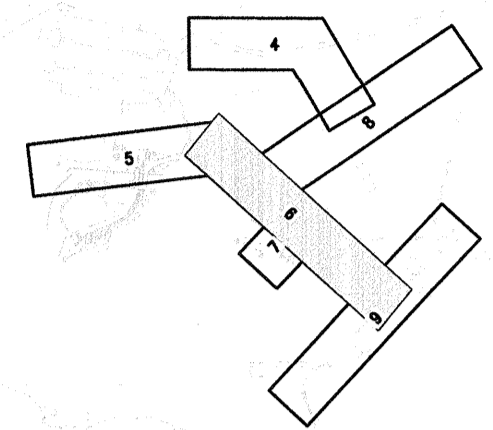
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision
R.081111.001	5 OF 11	3



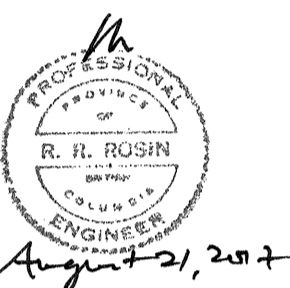
- NOTES**
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KEYPLAN
SCALE: NTS



0 5 1:500 25m

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3	TENDER ISSUE	17/08/21
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Revision/Revisions	Description/Description	Date/Date

PUBLIC SERVICES AND PROCUREMENT CANADA

219 - 800 BURRARD STREET
VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet

FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
R. ROSIN

Designed by/Concept par
S. CLARK

Drawn by/Dessiné par
S. CLARK

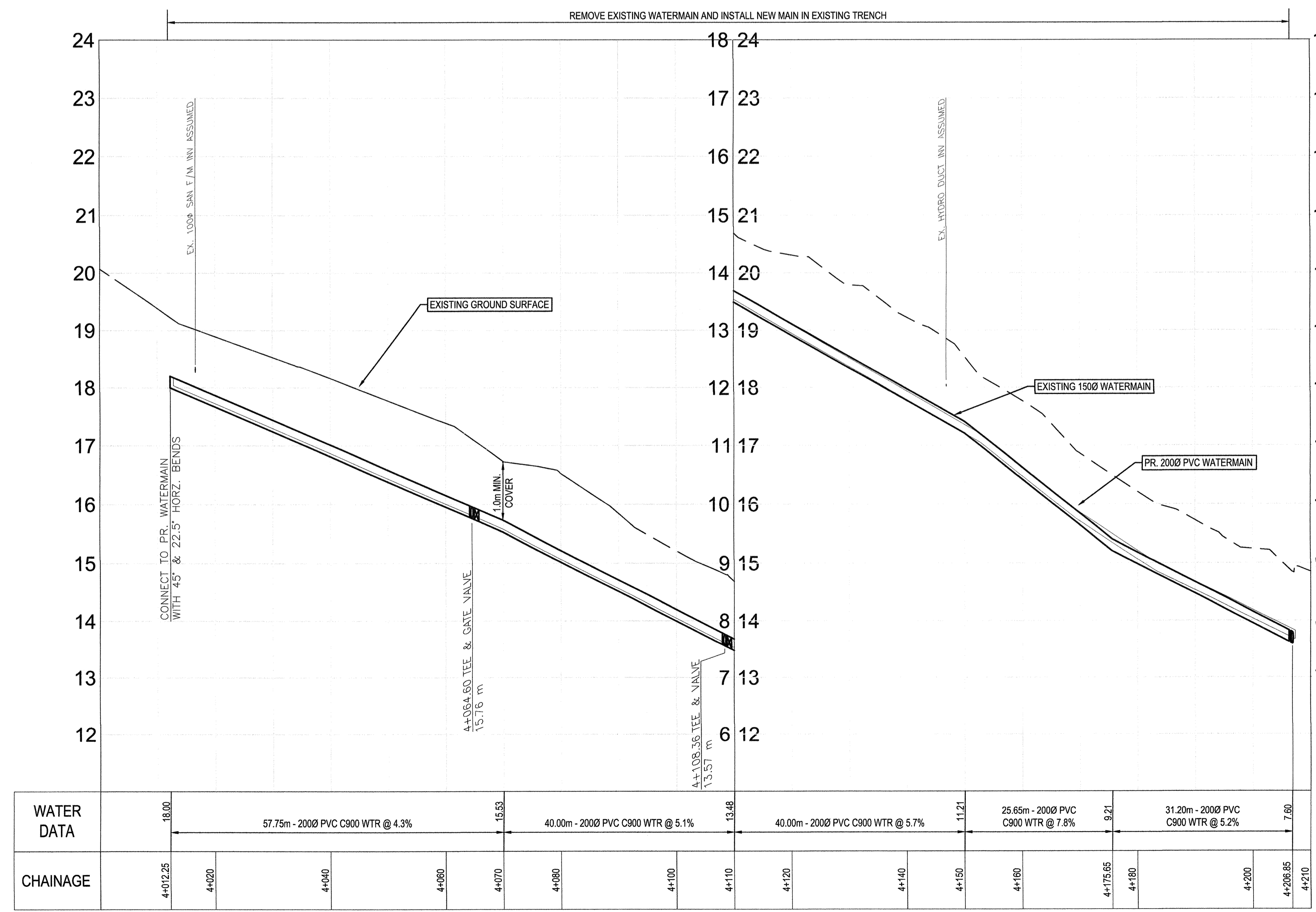
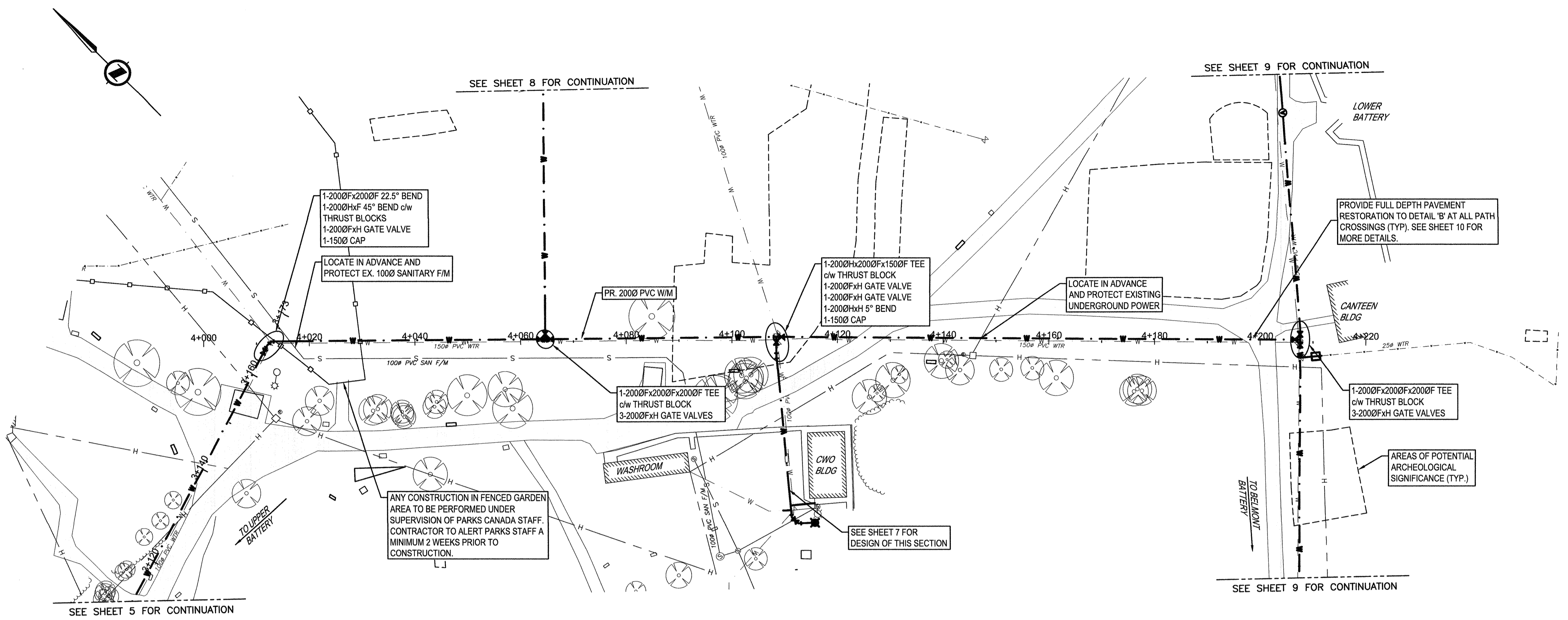
PWOSC Project Manager/Administrateur de Projets TP56C
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TP56C
TOM DUNPHY

Drawing title/Titre du dessin

PROPOSED WATER UPPER BATTERY TO LOWER BATTERY
4+000 TO 4+210

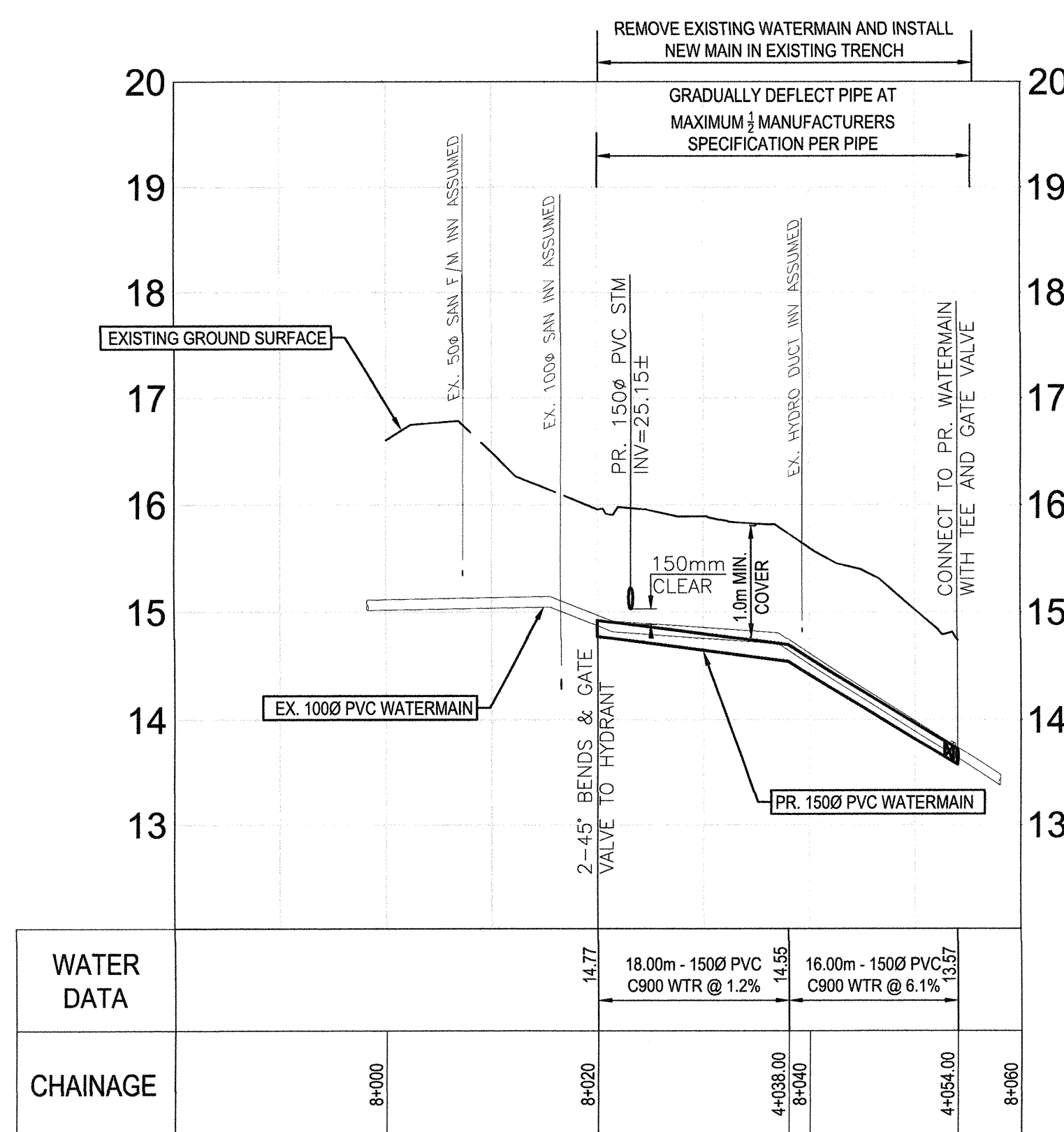
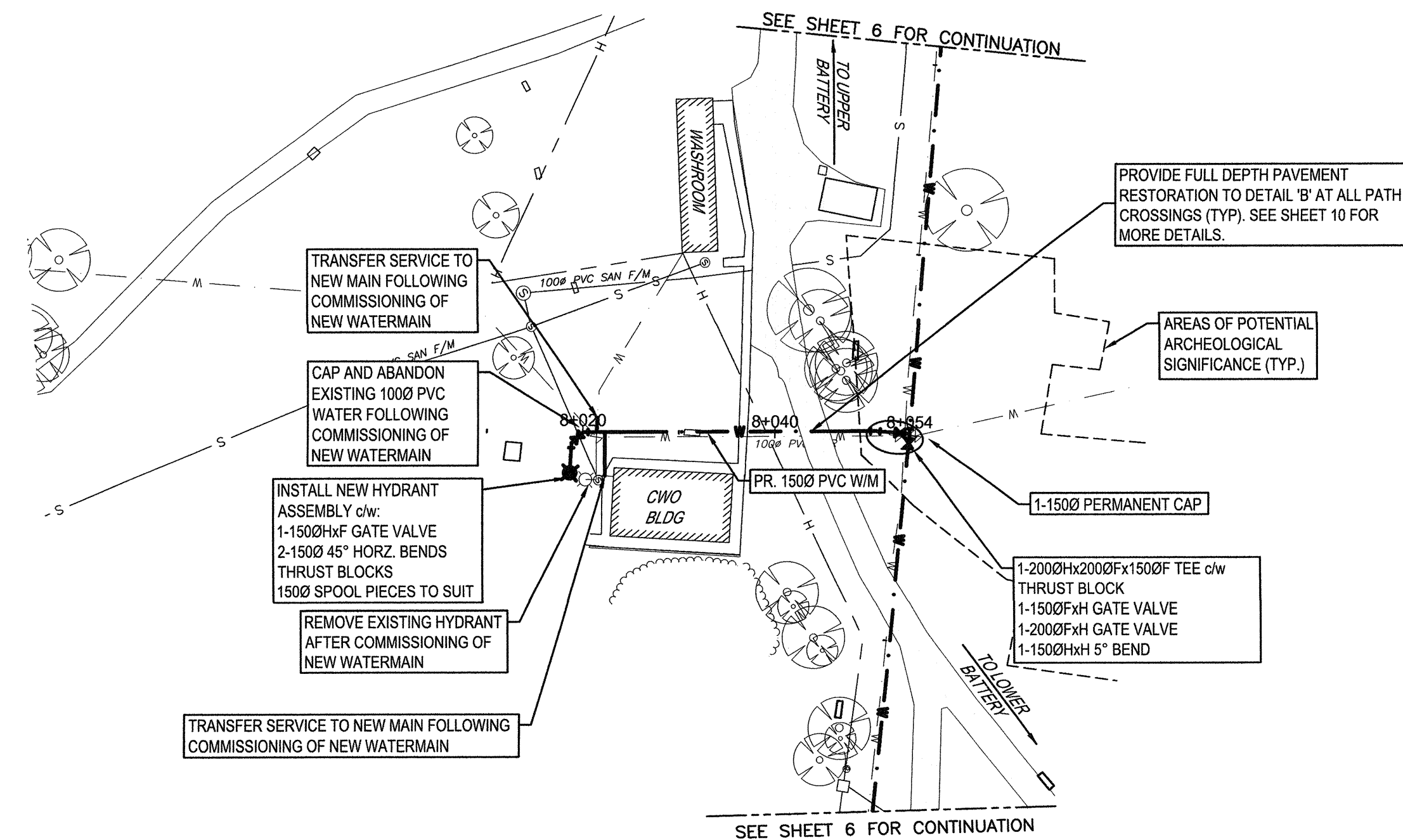
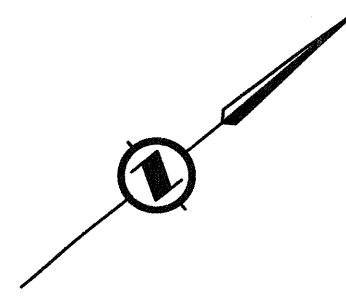
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.081111.001	6 OF 11	3



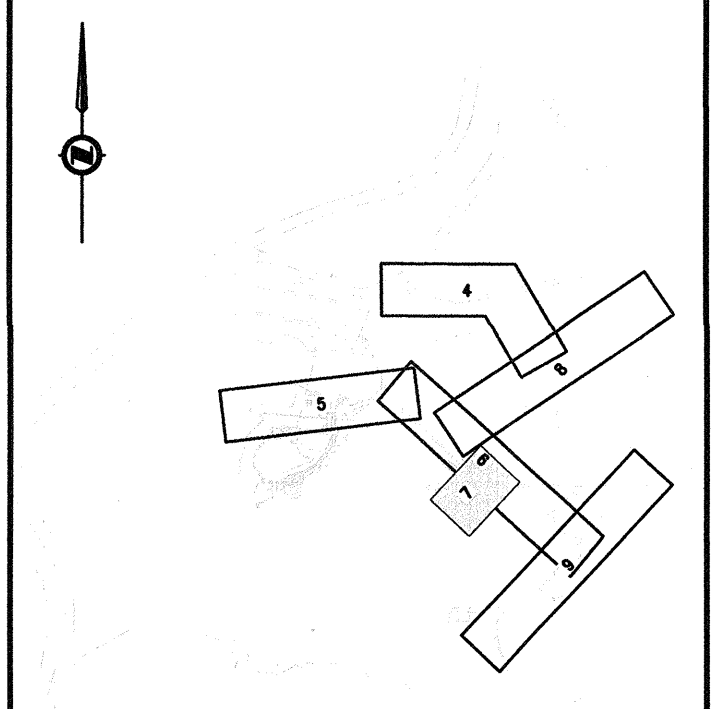
- NOTES**
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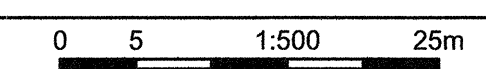
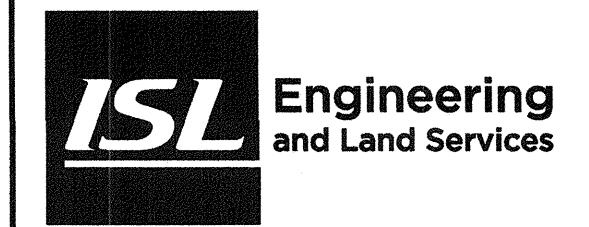
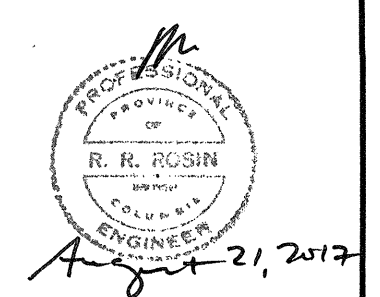




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KEYPLAN
SCALE: NTS



Revision/Modification	Description/Description	Date/Date
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4		
3	TENDER ISSUE	17/08/21
2	ISSUED FOR 100% REVIEW	17/07/27
1	ISSUED FOR 99% REVIEW	17/07/14
0	ISSUED FOR 66% REVIEW	17/05/03

Client/client
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

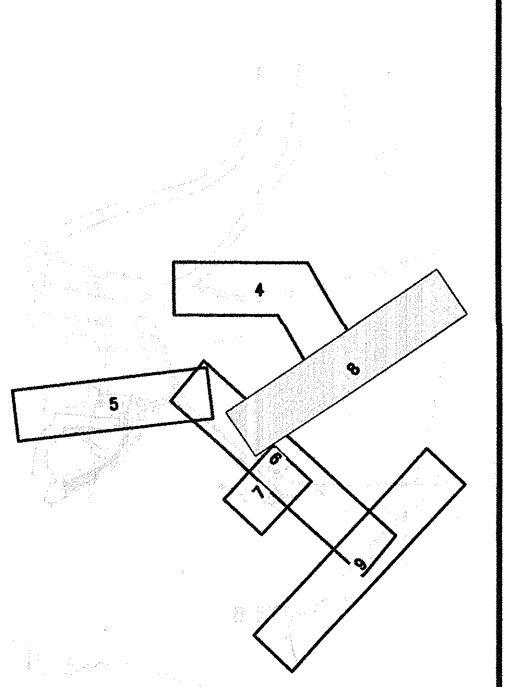
Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWGSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services /
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY

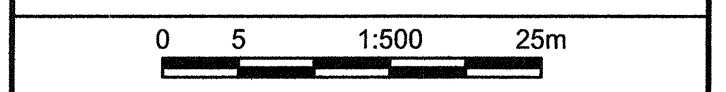
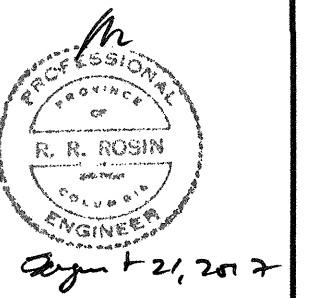
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PROPOSED WATER BELMONT TRAIL 8+000 TO 8+060

Project No./No. du projet	Sheet/Feuille	Revision no./No. de révision
R.081111.001	7 OF 11	3





KEYPLAN
SCALE: NTS



Revision/Revision	Description/Description	Date/Date
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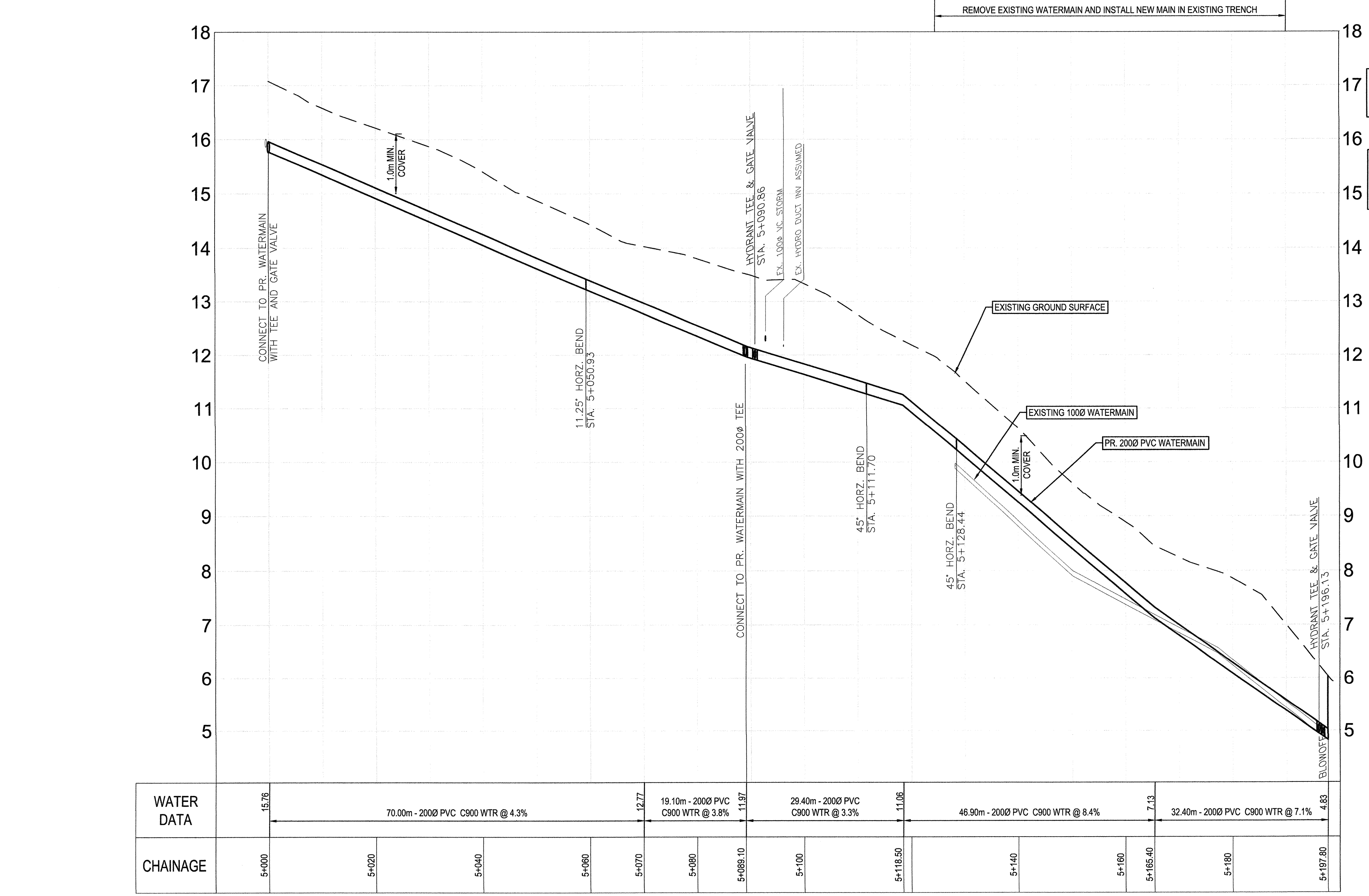
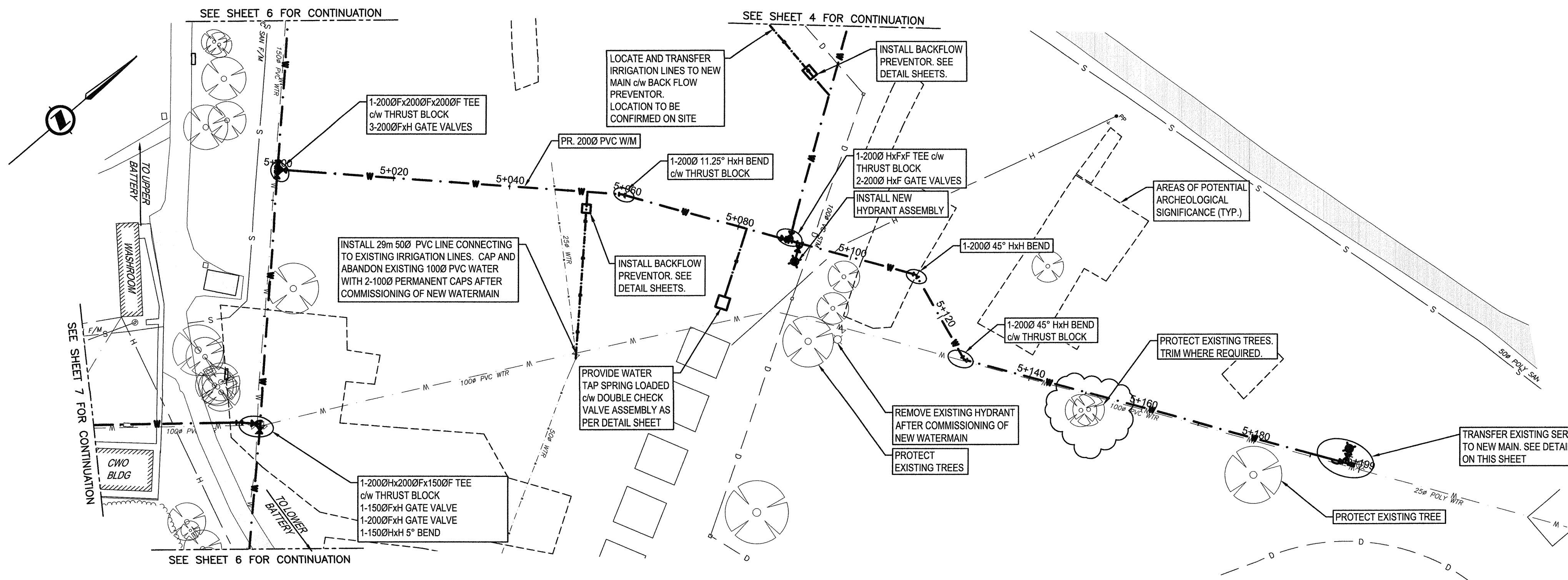
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BURRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

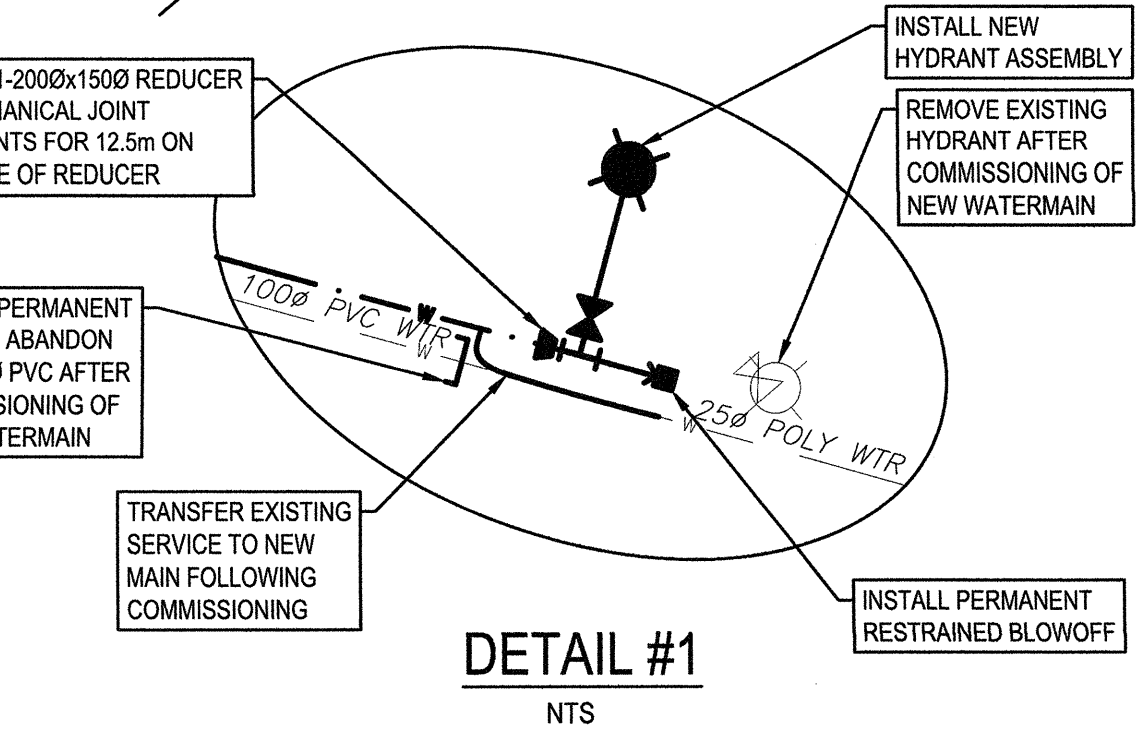
Consultant Signature Only
 R. ROSIN
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 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWGSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY
 Drawing title/Titre du dessin

PROPOSED WATER MEADOW 5+000 TO 5+200

Project No./No. du projet	Sheet/Feuille	Revision no./No. de révision
R.081111.001	8 OF 11	3



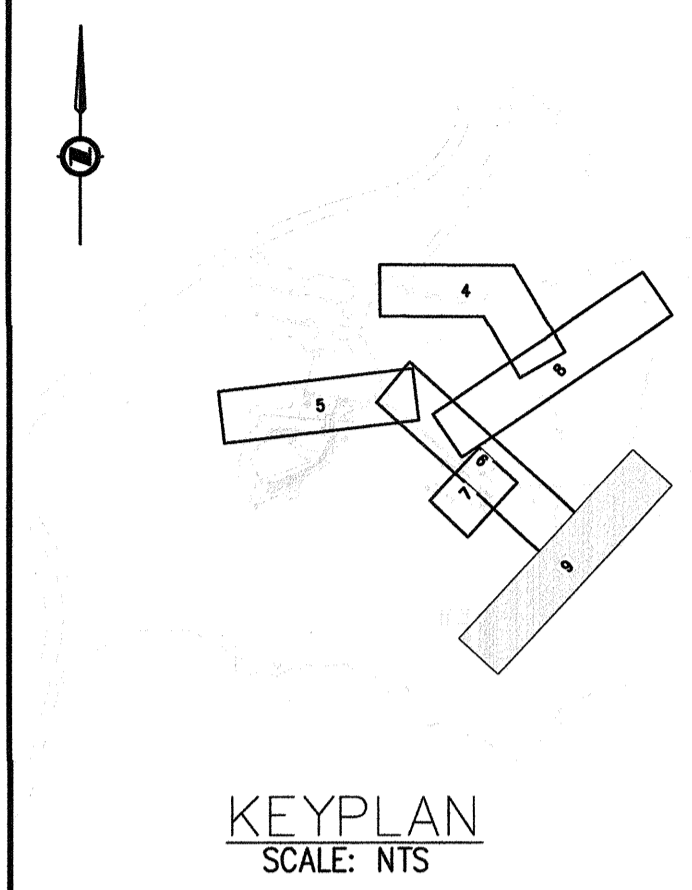
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WATER DATA	15.76	70.00m - 2000 PVC C900 WTR @ 4.3%			12.77	19.10m - 2000 PVC C900 WTR @ 3.8%		11.97	29.40m - 2000 PVC C900 WTR @ 3.3%		11.06	46.90m - 2000 PVC C900 WTR @ 8.4%		7.13	32.40m - 2000 PVC C900 WTR @ 7.1%		4.83



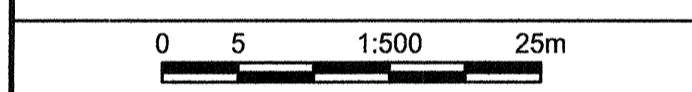
- NOTES**
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2017/Aug/21, 6:04pm PWGSC - A1 - 841X594





R. R. ROSIN
 PROFESSIONAL ENGINEER
 August 21, 2017



5		
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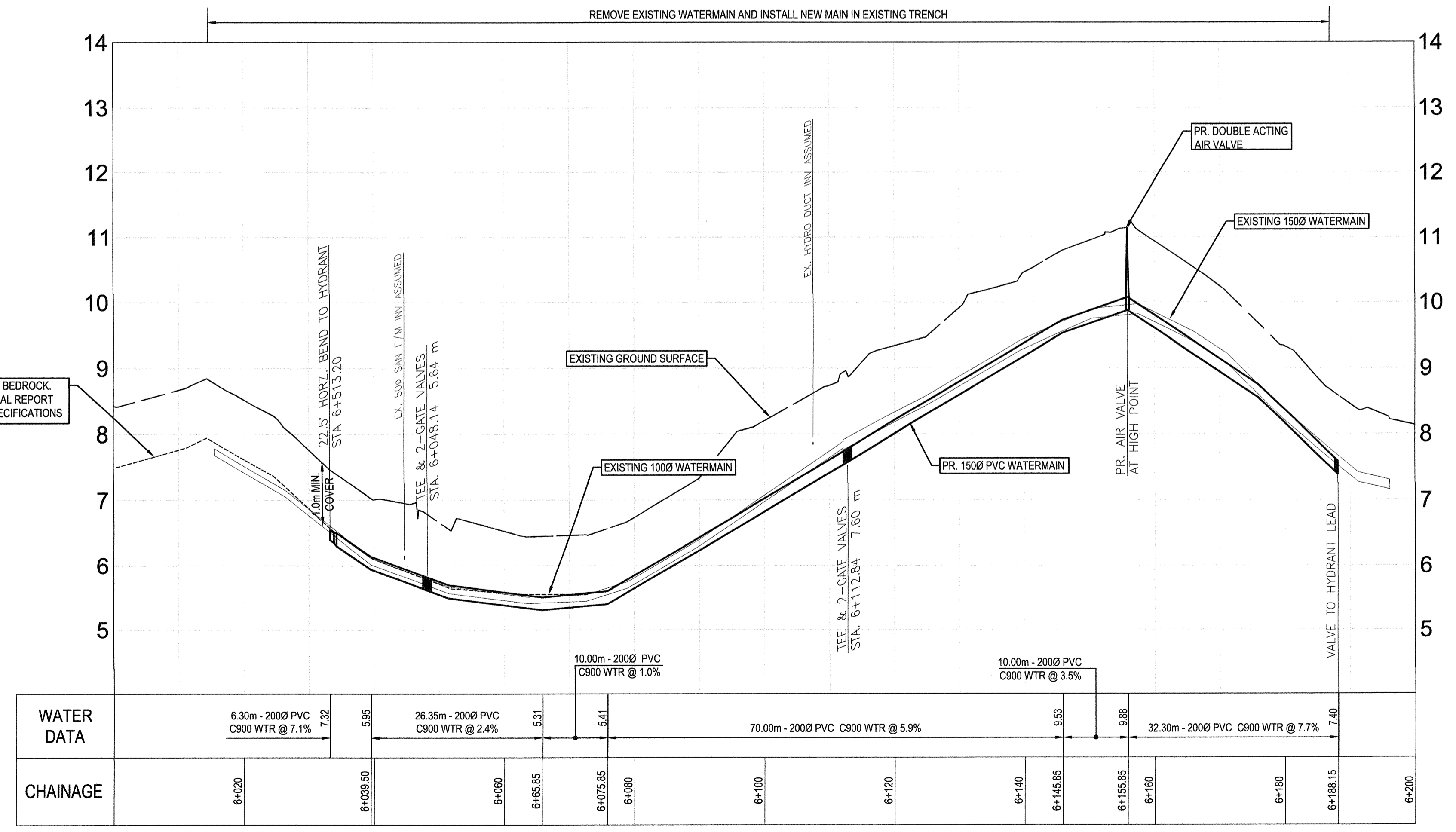
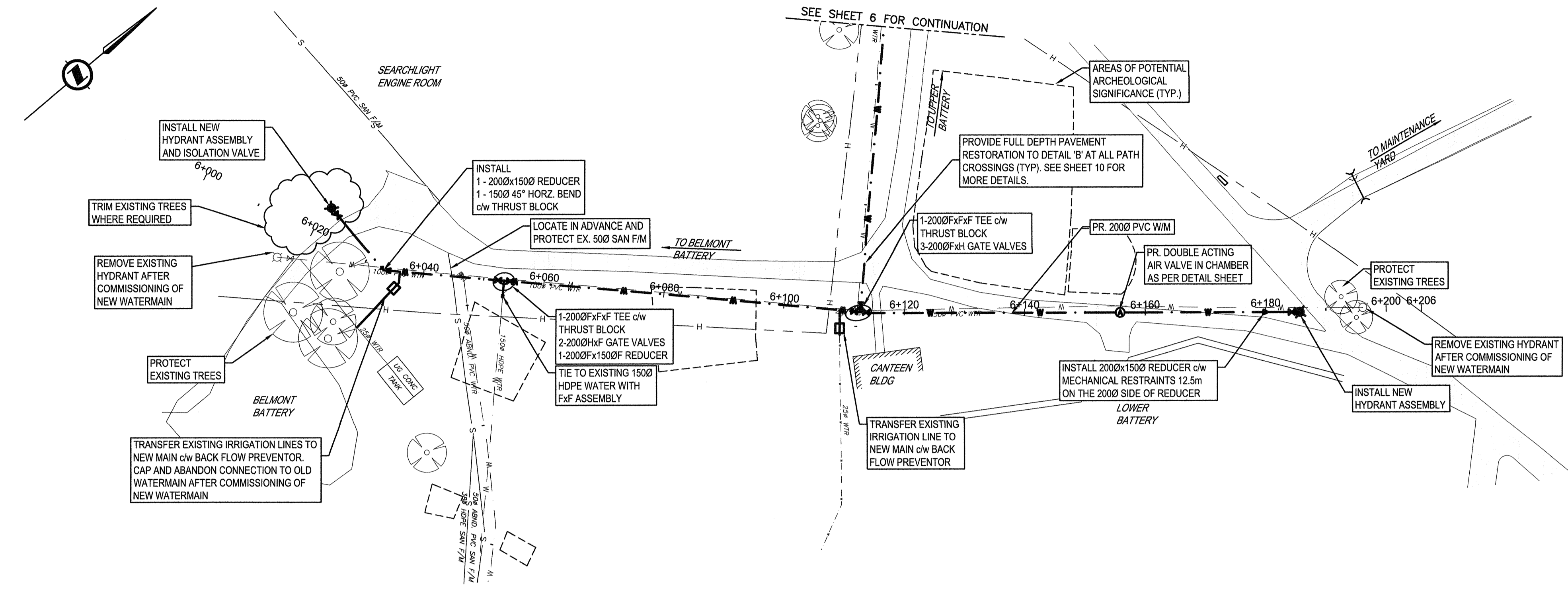
Client/client
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

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 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWGSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY
 Drawing title/Titre du dessin

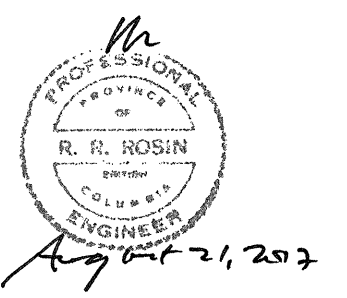
PROPOSED WATER BELMONT & LOWER BATTERY 6+000 TO 6+200

Project No./No. du projet	Sheet/Feuille	Revision no./La révision no.
R.081111.001	9 OF 11	3



- NOTES**
- CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE DEPARTMENTAL REPRESENTATIVE OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
 - EXISTING PROFILE OF SANITARY ASSUMED / UNKNOWN. TO BE CONFIRMED BY CONTRACTOR.
 - EXISTING WATERMAIN PROFILE INTERPRETED FROM AVAILABLE RECORD DRAWINGS.
 - CONTRACTOR TO PROVIDE ABOVE GROUND 1500 DR17 HDPE TEMPORARY BYPASS TO MAINTAIN CONTINUOUS WATER SERVICE.





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3	TENDER ISSUE	17/08/21
2	ISSUED FOR 100% REVIEW	17/07/21
1	ISSUED FOR 99% REVIEW	17/07/14
0	ISSUED FOR 66% REVIEW	17/05/03
Revision/Édition	Description/Description	Date/Date

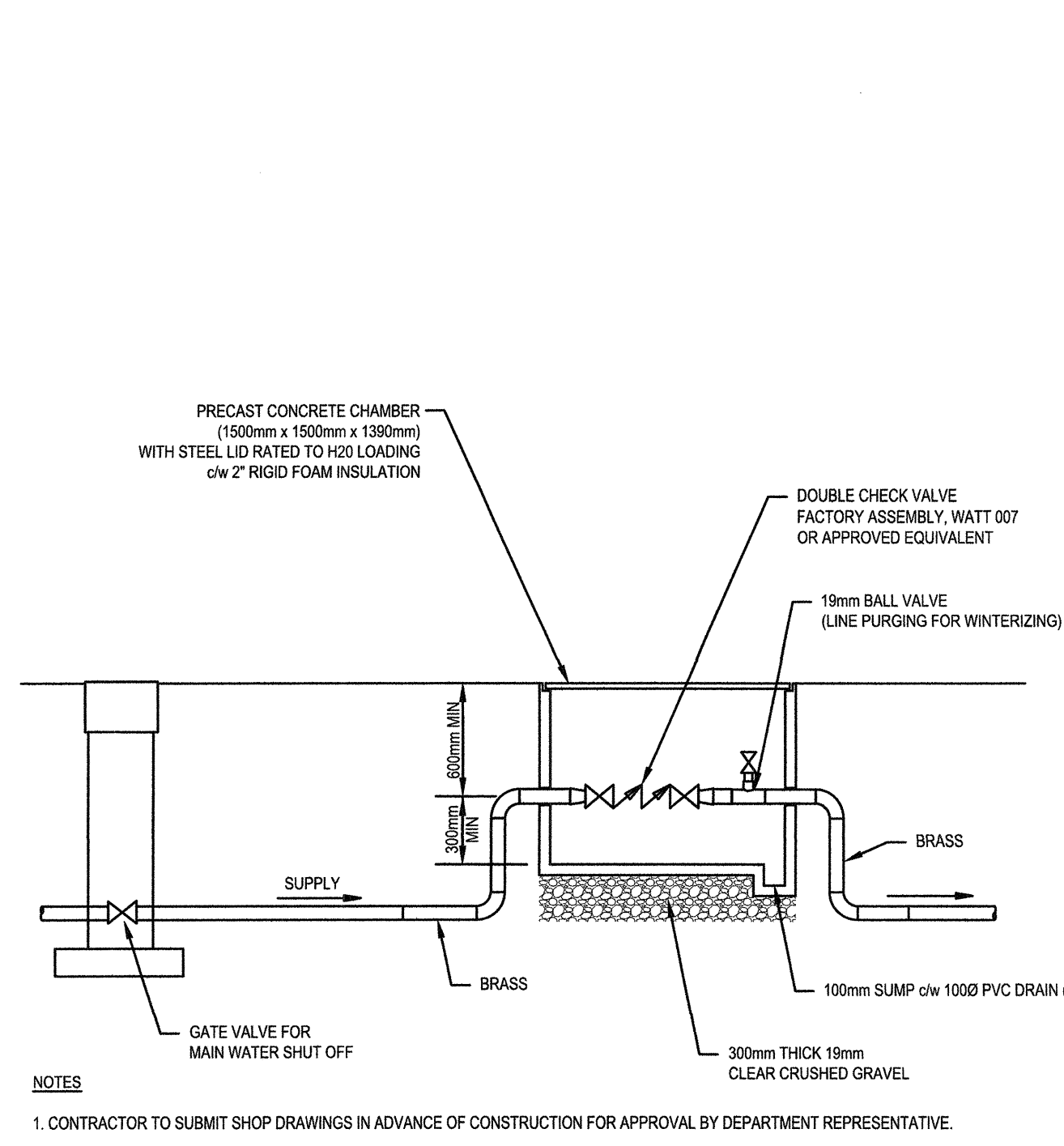
PUBLIC SERVICES AND PROCUREMENT CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT RODD HILL NHS EXISTING UTILITY REHABILITATION

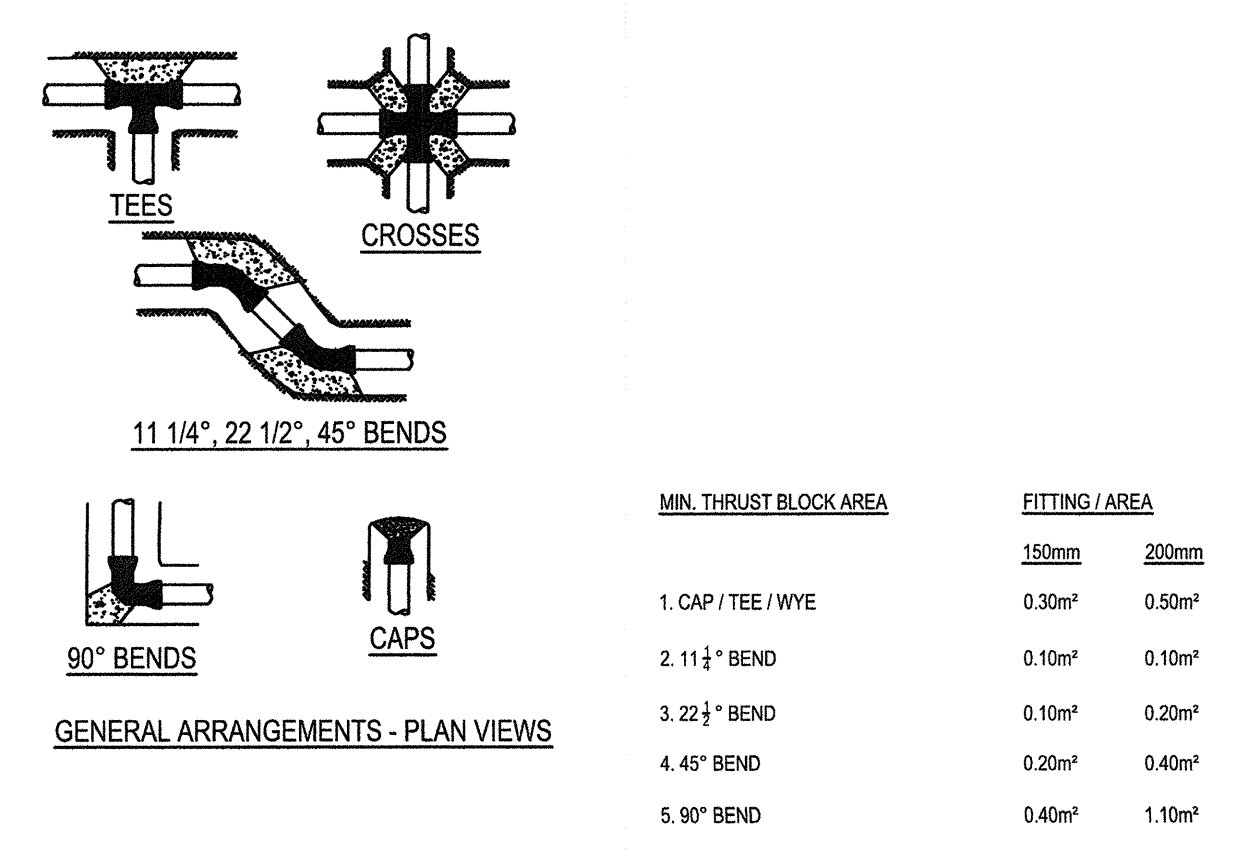
Consultant Signature Only
 R. ROSIN
 Designed by/Concept par
 S. CLARK
 Drawn by/Designé par
 S. CLARK
 PWGSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de gén. TPSGC
 TOM DUNPHY

Drawing title/Titre du dessin
STANDARD DETAILS

Project No./No. du projet	Sheet/Fauille	Revision no./La révision no.
R.081111.001	10 OF 11	3

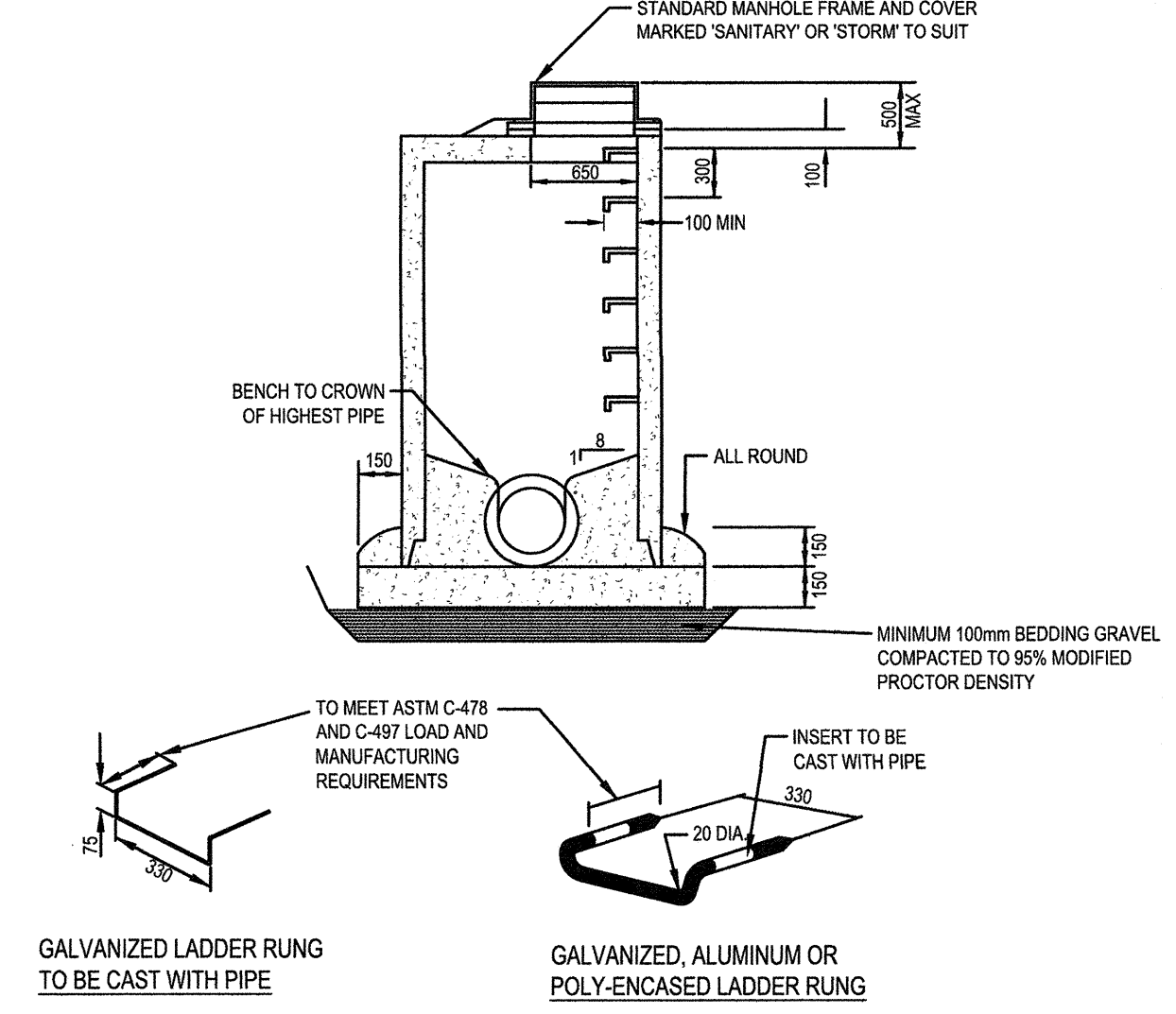


BACKFLOW PREVENTOR DETAIL
 SCALE: NTS



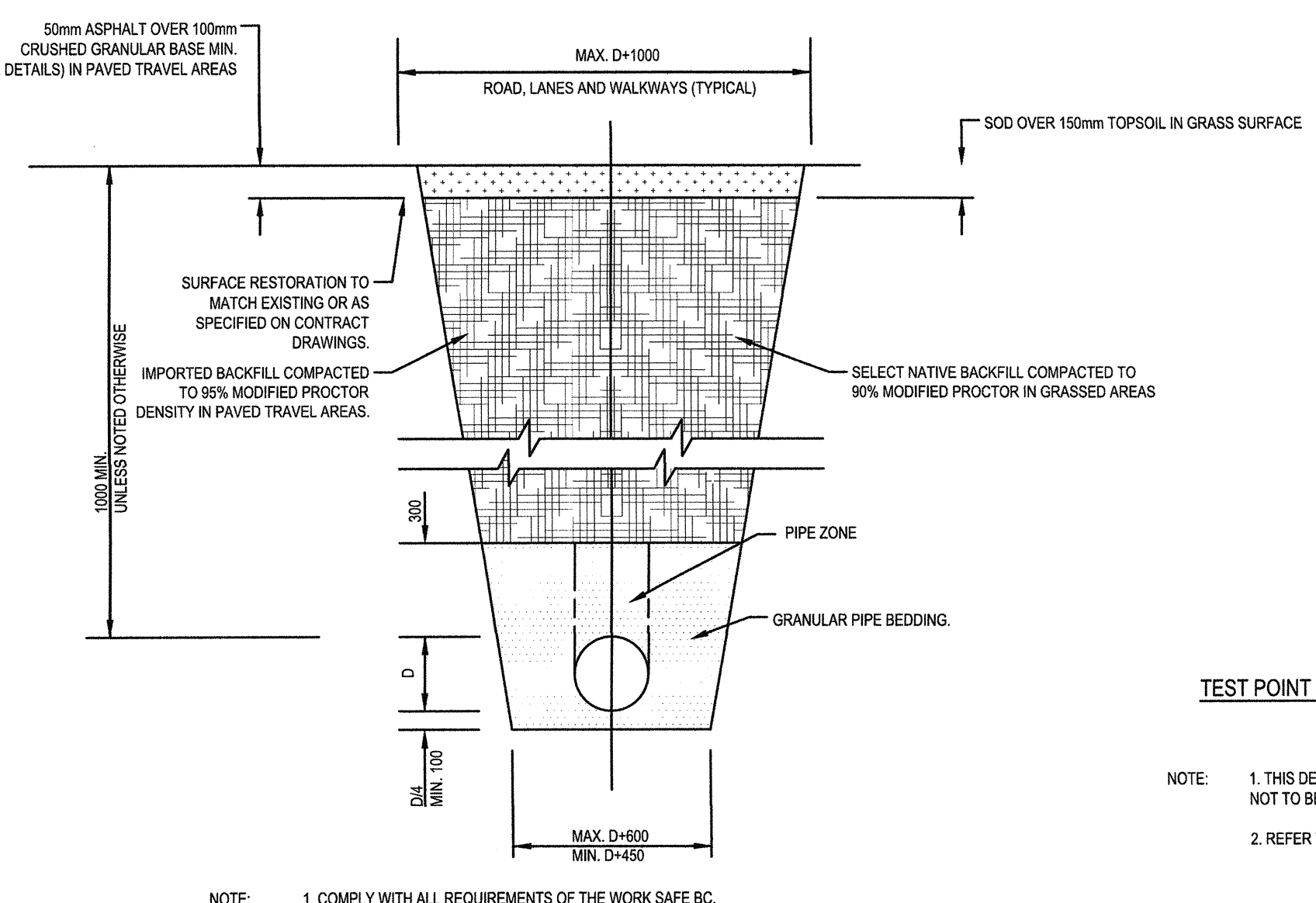
- GENERAL ARRANGEMENTS - PLAN VIEWS**
- GENERAL ARRANGEMENTS - ELEVATIONS**
- NOTE:
- SOIL BEARING AREAS UNDISTURBED NATIVE MATERIAL.
 - VALUES INDICATED ARE MINIMUM BASED ON 100kPa PER RYZIK.
 - PLACE 6 ml POLYETHYLENE ON INTERFACE BETWEEN CONCRETE AND FITTING.
 - PLACE 20 MPa CONCRETE AGAINST UNDISTURBED GROUND; KEEP CONCRETE CLEAR OF FITTING JOINTS.
 - REFER TO CONTRACT DOCUMENTS FOR DETAILED SPECIFICATIONS.

TYPICAL THRUST BLOCK ARRANGEMENTS
 SCALE: NTS

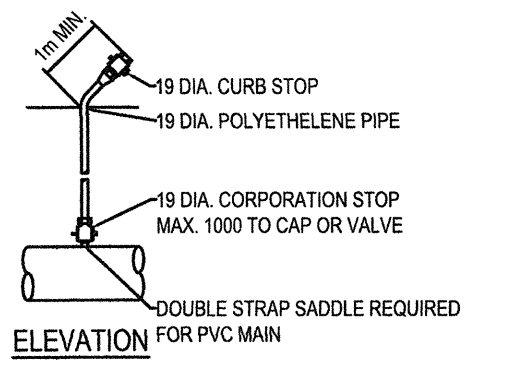


- STANDARD MANHOLE DETAIL NOTES**
- DETAILS ARE DRAWN FOR PRECAST RISERS ON CAST-IN-PLACE BASE. PRECAST BASES APPROVED BY DEPARTMENT REPRESENTATIVE ARE ACCEPTABLE.
 - MAXIMUM DEPTH TO FIRST RUNG IS 500mm. WHEN HAND HOLD IS INSTALLED BETWEEN TOP AND FIRST RUNG, MAXIMUM DEPTH MAY BE INCREASED TO 600mm.
 - FOR MANHOLES OVER 1200mm DIA. BASE THICKNESS TO BE 200mm.
 - REFER TO STANDARD MANHOLE CONNECTION DETAILS.
 - REFER TO CONTRACT DOCUMENTS FOR DETAILED SPECIFICATIONS.

STANDARD MANHOLE DETAIL
 SCALE: NTS

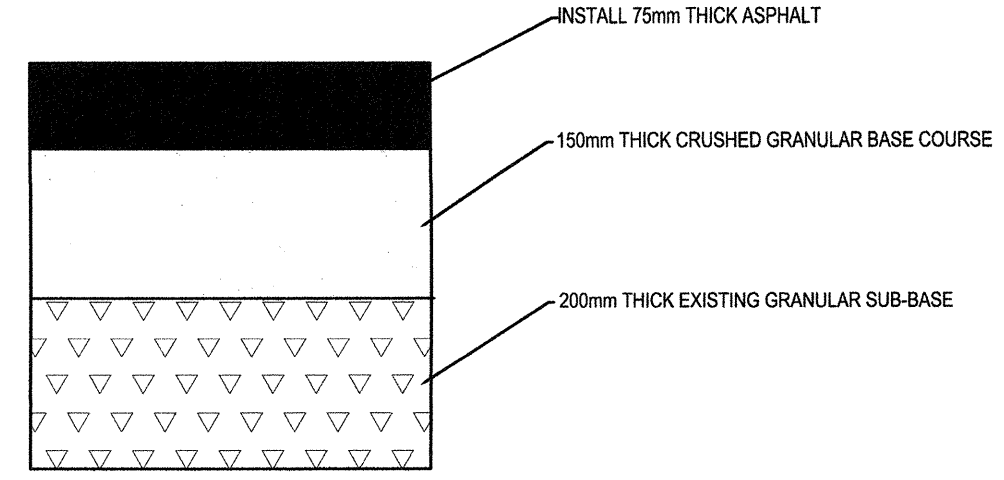


UTILITY TRENCH DETAIL
 SCALE: NTS

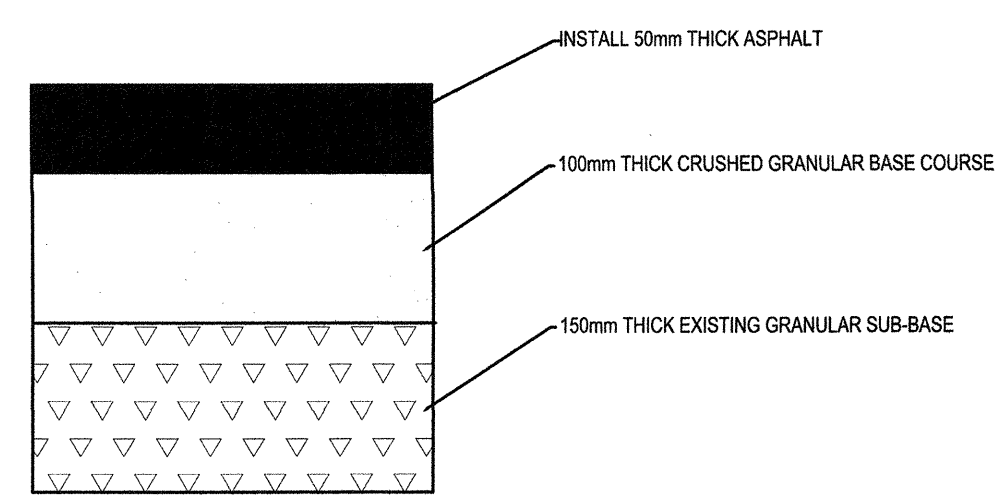


- TEST POINT INSTALLATION DURING CONSTRUCTION**
- NOTE:
- THIS DETAIL TO BE USED ONLY FOR TESTING DURING CONSTRUCTION NOT TO BE USED FOR FLUSHING
 - REFER TO CONTRACT DOCUMENTS FOR DETAILED SPECIFICATIONS

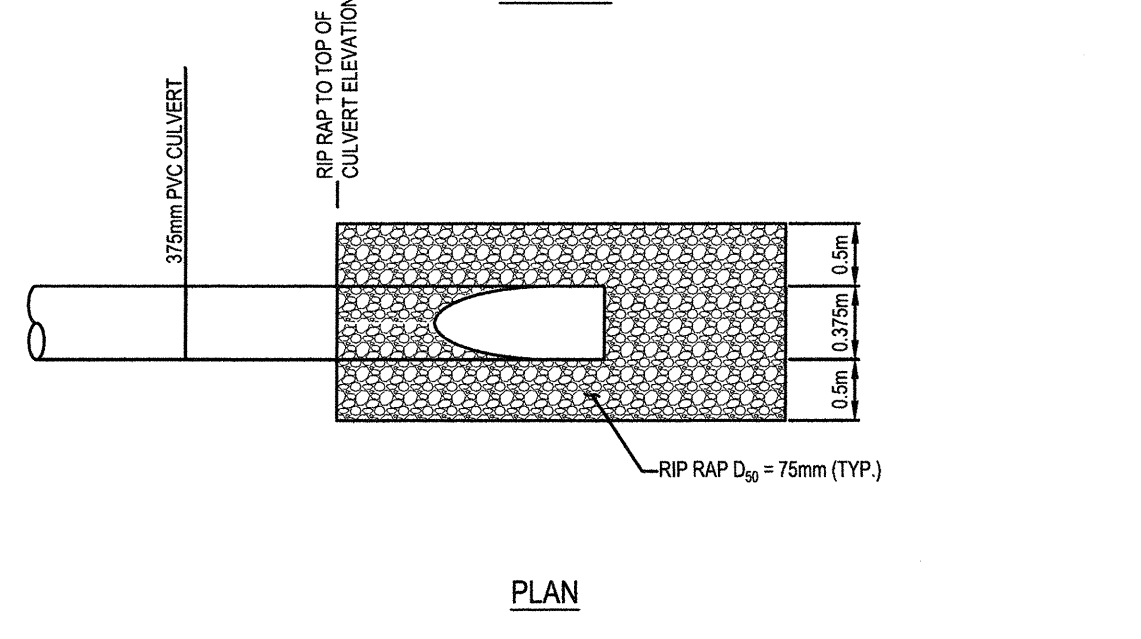
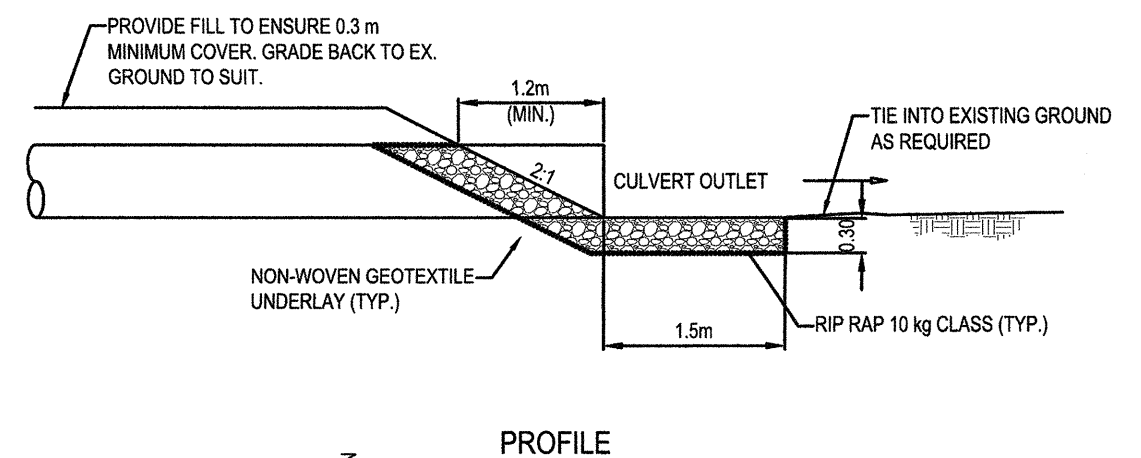
TEST POINT INSTALLATION DETAIL
 SCALE: NTS



ASPHALT ROAD - VEHICLE TRAVEL - STRUCTURE 'A'
 SCALE: NTS



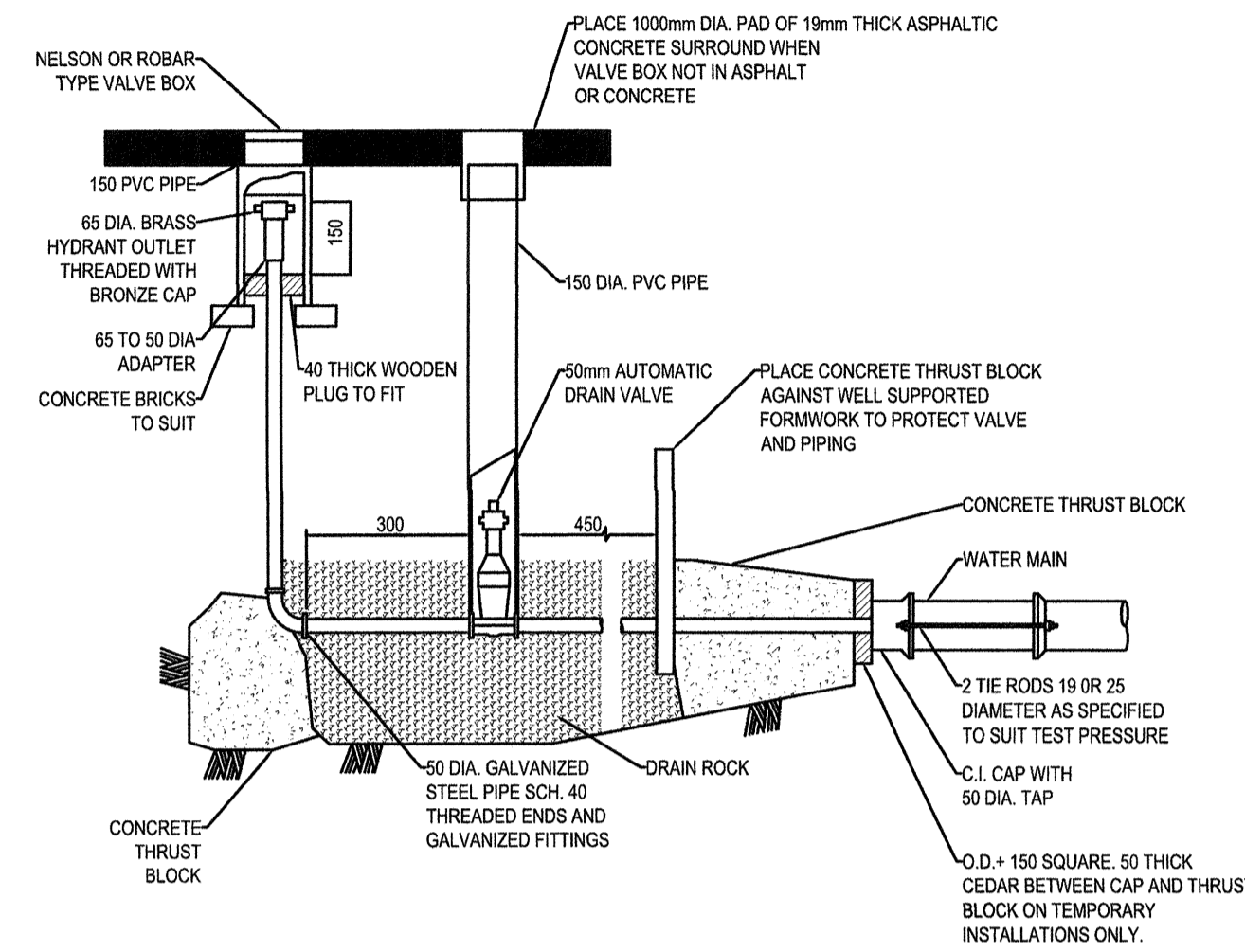
ASPHALT ROAD - PEDESTRIAN AND LIGHT VEHICLE - STRUCTURE 'B'
 SCALE: NTS



CULVERT OUTLET DETAIL
 SCALE: NTS

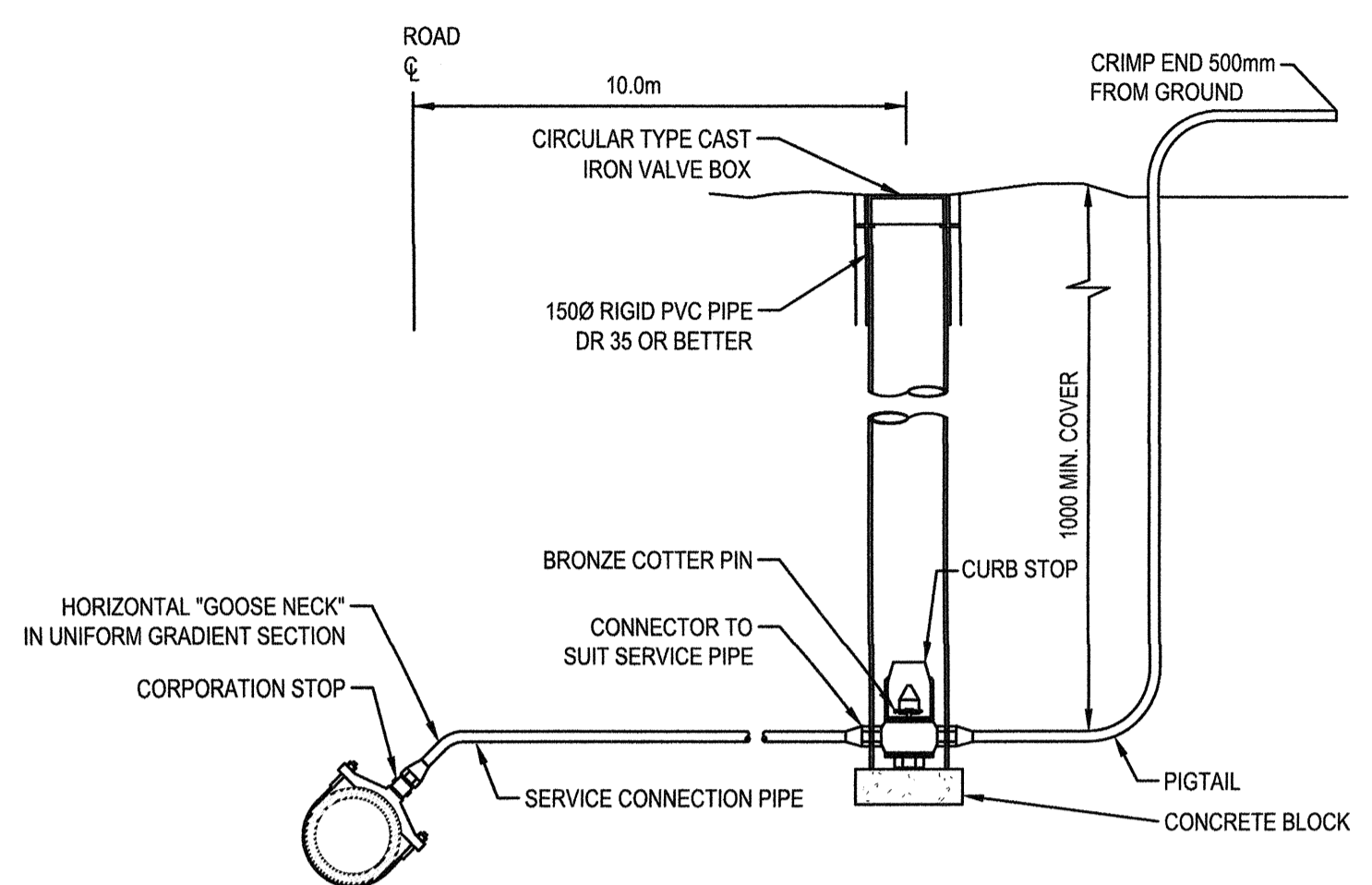
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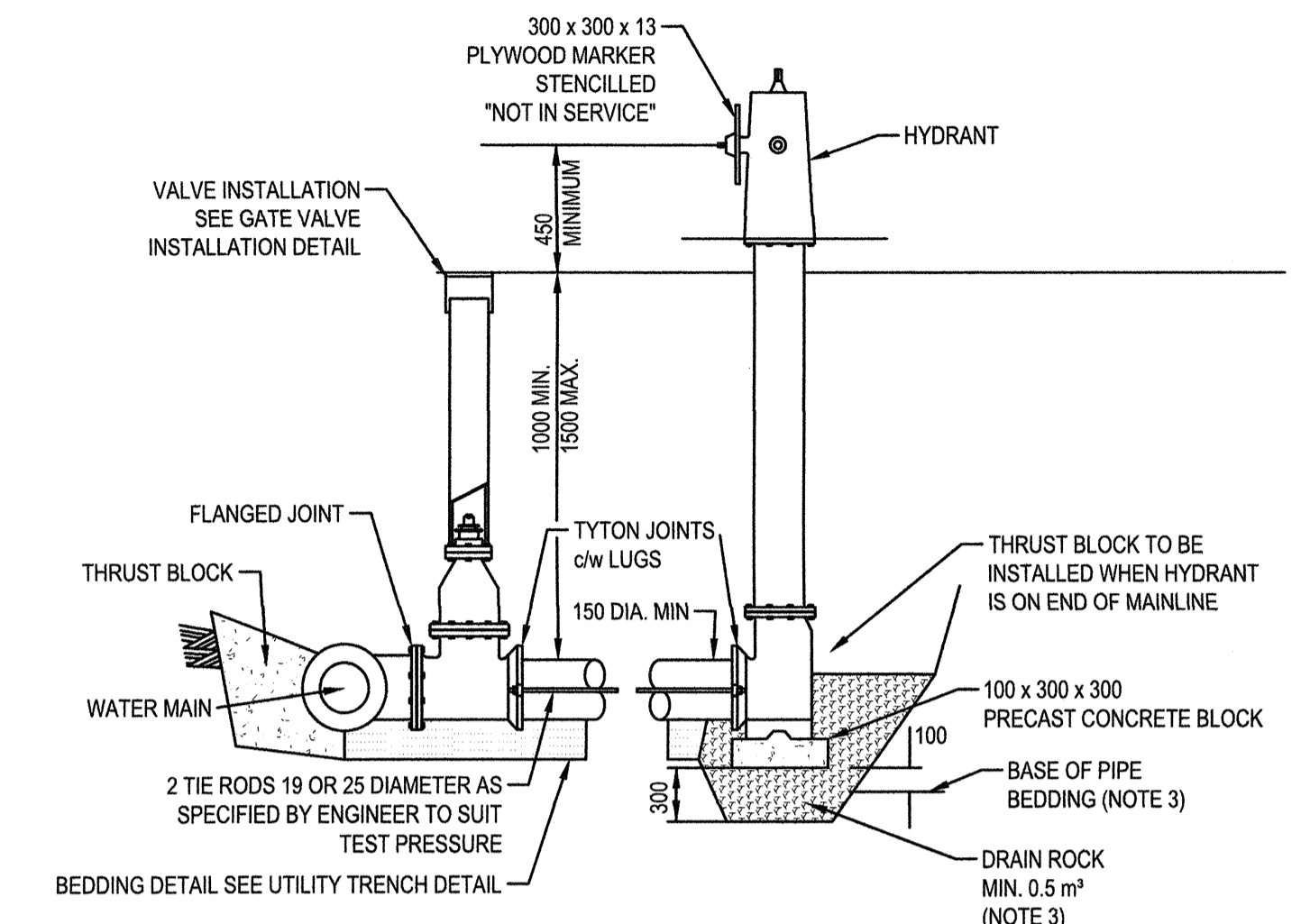
NOTE: 1. 20 MPa CONCRETE.
 2. REFER TO CONTRACT DOCUMENTS AND SECTION 33 11 16 FOR DETAILED SPECIFICATIONS

BLOW-OFF FOR WATERMAIN
 SCALE: NTS



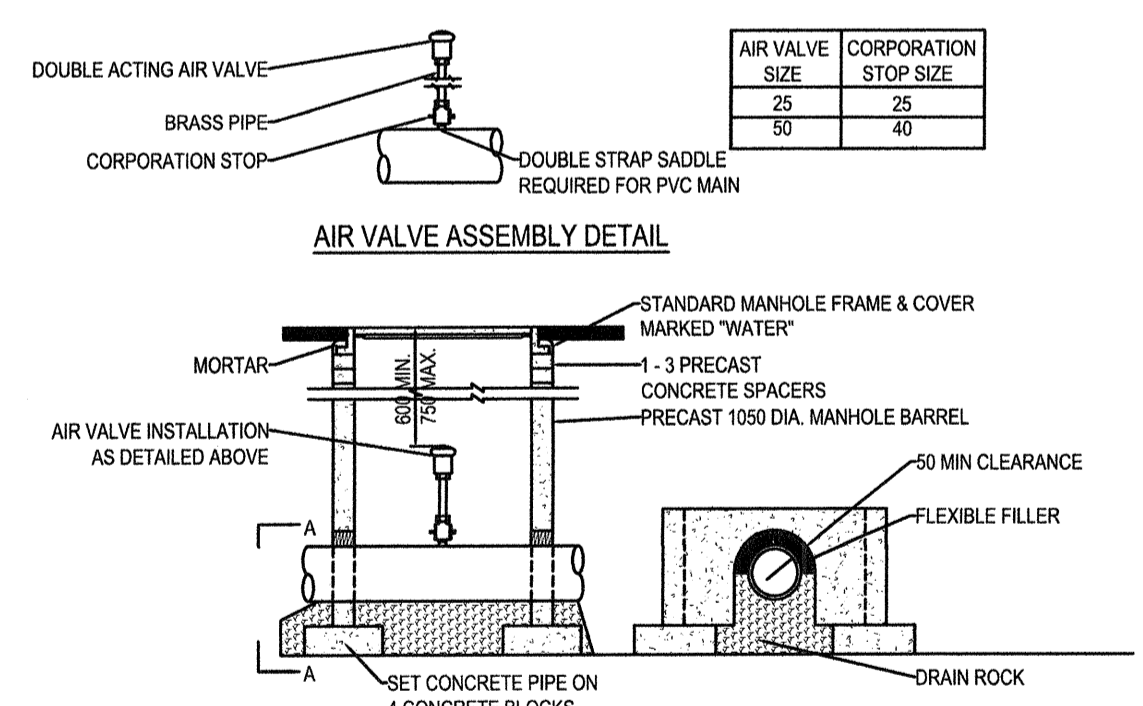
NOTE: 1. THIS DETAIL FOR SERVICES 19 TO 50mm ONLY
 2. PVC SADDLES TO SECTION 33 11 16
 3. INSTALL SERVICE PIPE WITH "GOOSENECK" IN HORIZONTAL POSITION
 4. WHEN CURB STOP INSTALLED IN DRIVEWAY PLACE COVER IN CHAMBER. MARK "WATER". SEE INSPECTION CHAMBER INSTALLATION IN DRIVEWAY AND ROAD FOR TYPICAL DETAIL
 5. REFER TO CONTRACT DOCUMENTS AND SECTION 33 11 16 FOR DETAILED SPECIFICATIONS

WATER SERVICE CONNECTION - VALVE BOX
 SCALE: NTS



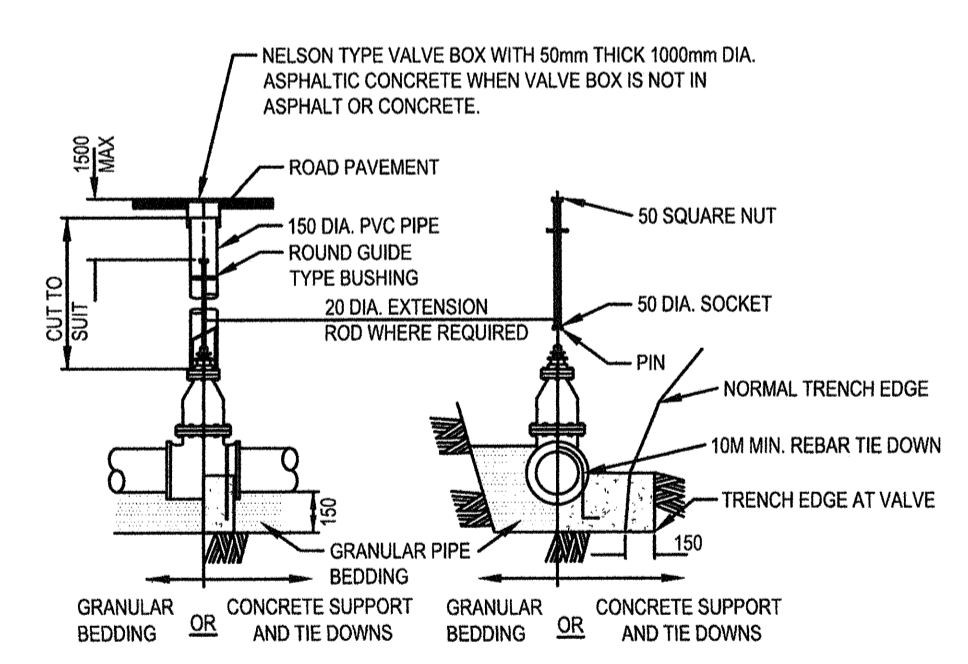
NOTE: 1. REFER TO SUPPLEMENTAL SPECIFICATIONS FOR HYDRANT PAINTING REQUIREMENTS
 2. REFER TO CONTRACT DOCUMENTS AND SECTION 33 11 16 FOR DETAILED SPECIFICATIONS
 3. FOR INSTALLATIONS SHOWN ON CONTRACT DRAWINGS WHERE WATER TABLE (AT SEASONAL HIGH) IS ABOVE BASE OF DRAIN ROCK INSERT THREADED PLUGS IN DRAIN HOLES AND SUBSTITUTE GRANULAR PIPE BEDDING FOR DRAIN ROCK. (COMPACT PIPE BEDDING TO 95% MODIFIED PROCTOR DENSITY)

FIRE HYDRANT INSTALLATION DETAIL
 SCALE: NTS

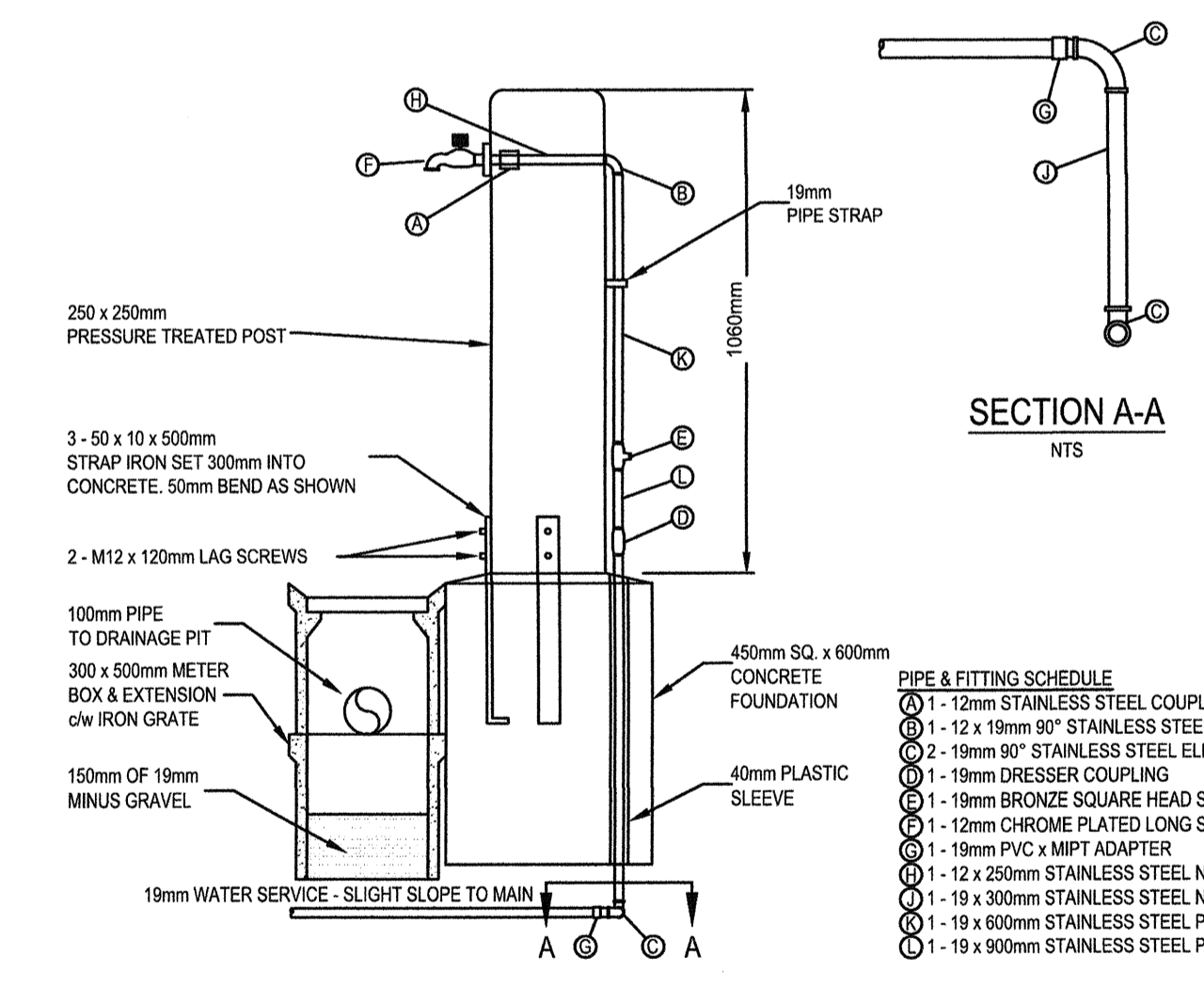


NOTE: 1. FOR 25mm AND 50mm AIR VALVES
 2. REFER TO CONTRACT DOCUMENTS AND SECTION 33 11 16 FOR DETAILED SPECIFICATIONS

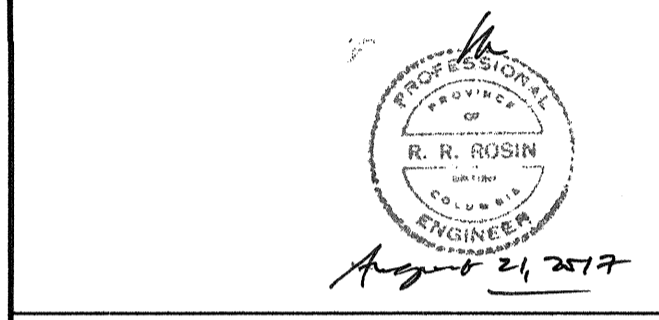
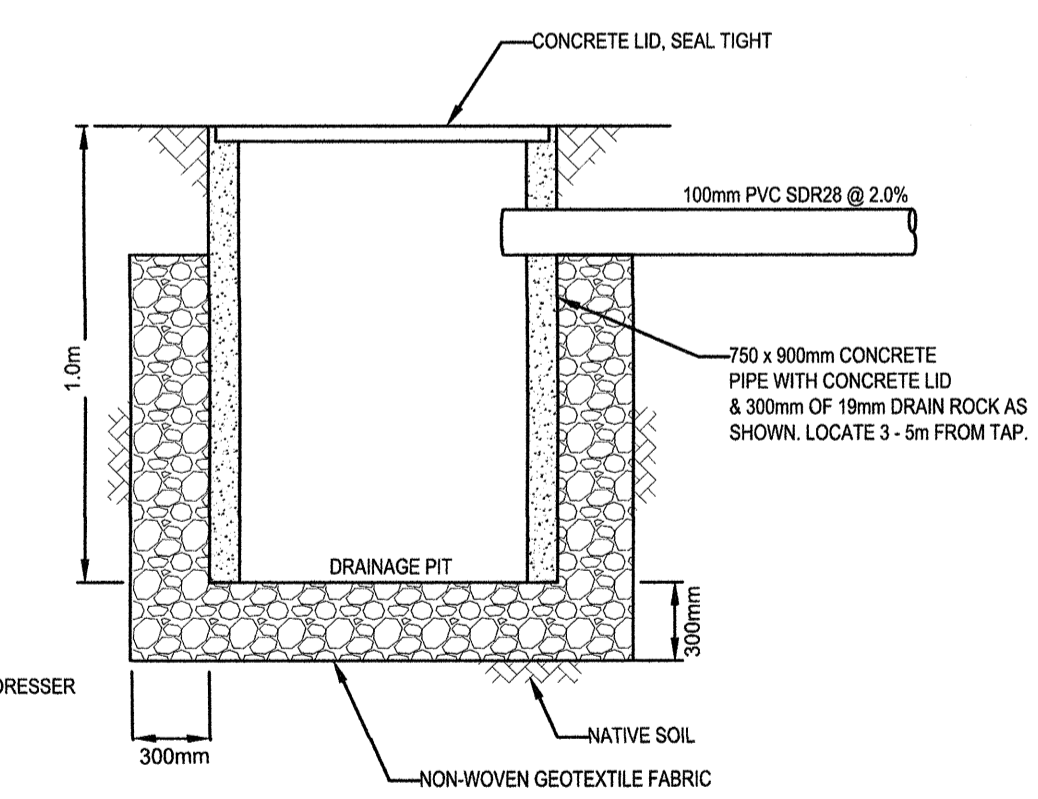
DOUBLE ACTING AIR VALVE ASSEMBLY DETAIL
 SCALE: NTS



GATE VALVE INSTALLATION DETAIL
 SCALE: NTS



WATER STANDPIPE TAP
 SCALE: NTS



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R.081111.001	11 OF 11	3

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