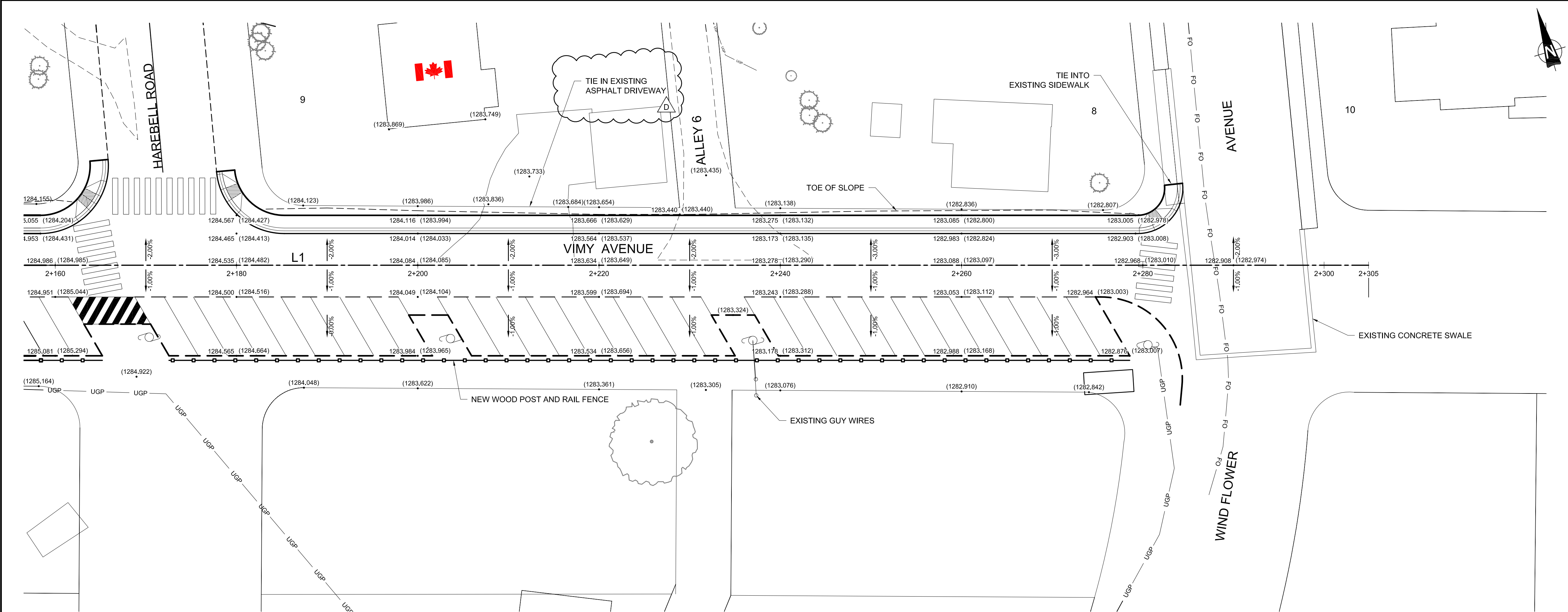

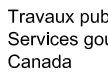


VIMY AVE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
L1	2+000.000	5437072.940	287172.980		304.91		S73° 11' 19.41"E





Public Works and
Government Services
Canada



Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

PRELIMINARY
NOT FOR CONSTRUCTION

NOTES

- REFER TO DRAWING C2 FOR LINEWORK AND SYMBOLS LEGEND.
- REFER TO DRAWINGS C14 - C23 FOR NEW AND EXISTING ROAD PROFILES.
- FOLLOWING DEEP UTILITY WORK, ALL ROADS TO BE RECONSTRUCTED TO TYPICAL ROADWAY STRUCTURE SHOWN ON DRAWING C39.
- ALL TIE IN LOCATIONS TO BE STEPPED TIE IN AS PER STANDARD DRAWINGS.
- TIE IN ALL EXISTING ACCESS LOCATIONS AS INDICATED AND MATCH THE EXISTING MATERIAL OF EACH ACCESS.

(1233.45) EXISTING SURFACE ELEVATION
(1235.32) PROPOSED SURFACE ELEVATION


0 6.25 12.5
1:250 m


amec foster wheeler

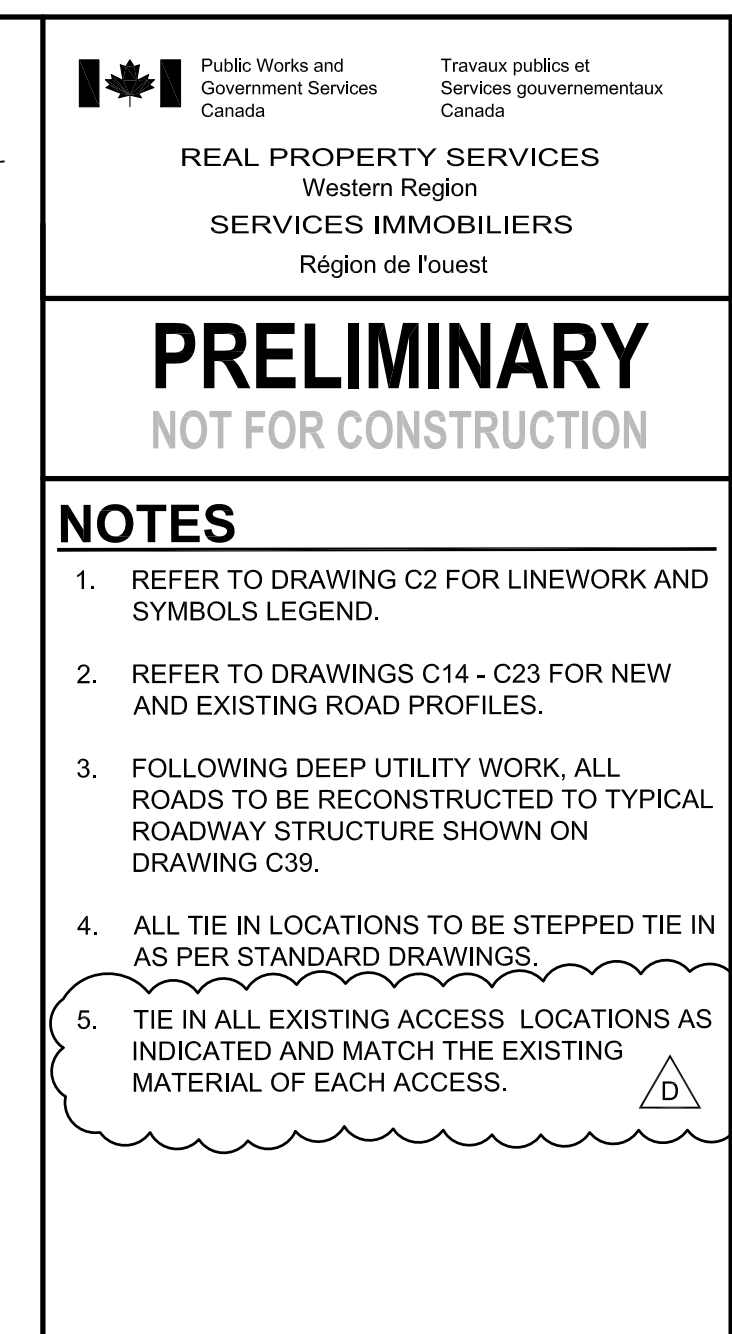
Consultant's Name
Nom de l'expert-conseil

PERMIT TO PRACTICE
AMEC FOSTER WHEELER
ENVIRONMENTAL ENGINEERING
Signature
Date
PERMIT NUMBER: P04546
The Association of Professional
Engineers and Geoscientists of Alberta

Eng. Stamp
Sceau de l'ingénieur



D	ISSUED FOR ADDENDUM 2	16/09/01
C	ISSUED FOR TENDER	16/09/15
B	ISSUED FOR 100% REVIEW	16/09/05
A	ISSUED FOR 90% REVIEW	16/07/20
Revision/	Description/Description	Date/Date
Client/client		
 <div>Parks Canada Agency</div>	<div>L'Agence Parcs Canada</div>	
<div>Western and Northern Region</div>	<div>Ouest et Nord du Canada</div>	
<div>Canada</div>		
Project title/Titre du projet		
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES		
PHASE C WATERTON LAKES NATIONAL PARK ALBERTA		
Approved by/Approuvé par APPROVED BY		
Designed by/Concept par B. ZACHER		
Drawn by/Dessiné par R. SCHULTZ		
PWSC Project Manager/Administrateur de Projets TPSGC M. BURKE		
PWSC Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSGC AERM BY		
Client/client J. LAMBE		
Drawing title/Titre du dessin		
SURFACE IMPROVEMENTS VIMY AVENUE PLANS STA 2+160 TO STA 2+305		
Project No./No. du projet R.075721.001	Sheet/Feuille C30 OF 40	Revision no./ La Révision no. D



(1233.45) EXISTING SURFACE ELEVATION
 (1235.32) PROPOSED SURFACE ELEVATION

0 6.25 12.5
m
1:250

amc foster wheeler

Consultant's Name
 Nom de l'expert-conseil

PERMIT TO PRACTICE
 AMFC FOSTER WHEELER /
 ENVIRONNEMENT ET INFRASTRUCTURE

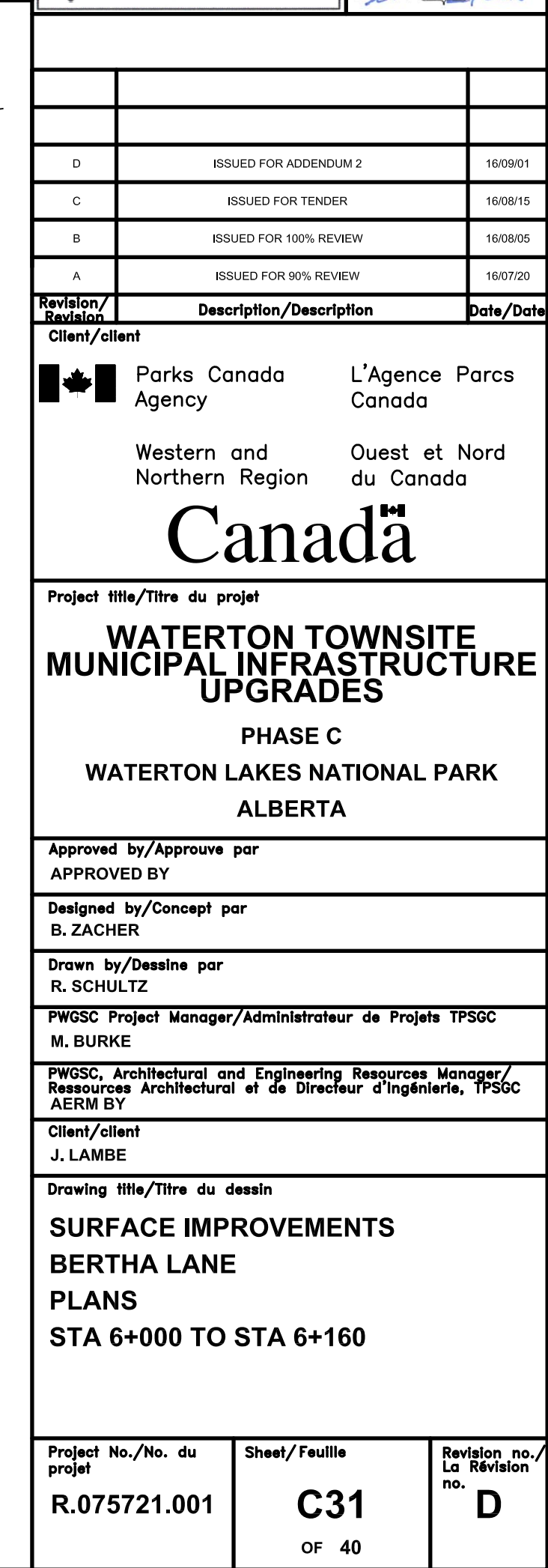
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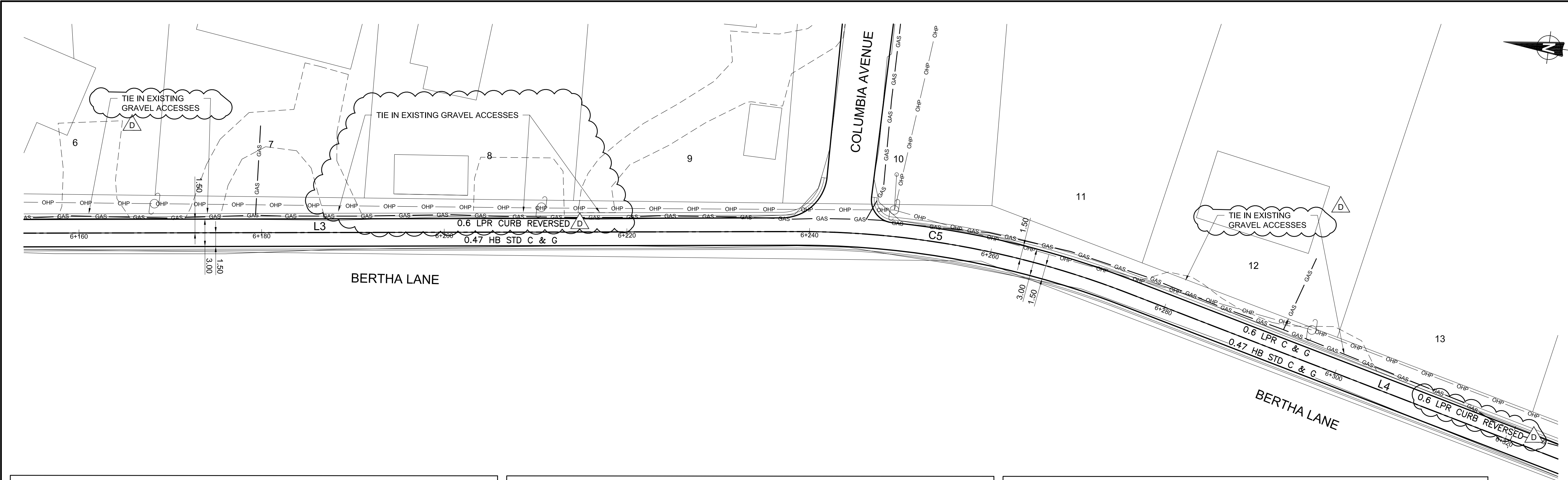
Date
Sept 2016

PERMIT NUMBER: P04546
 The Association of Professional
 Engineers and Geoscientists of Alberta

Eng. Stamp
 Sceau de l'ingénieur

PROFESSIONAL ENGINEER
 IN THE PROVINCE OF ALBERTA
 CIVIL
[Stamp with signature and date]
 2016






BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
L1	6+000.000	5437225.833	286913.118		20.49		S32° 17' 27.04"W
C1	6+020.495	5437208.508	286902.170	20.00	5.20	014°54'24.9"	
C2	6+025.698	5437203.799	286899.990	330.96	27.08	004°41'17.6"	
C3	6+025.698	5437203.799	286899.990	330.96	27.08	004°41'17.6"	
L2	6+070.173	5437160.539	286889.884		53.80		S07° 42' 44.80"W
C4	6+123.973	5437107.226	286882.664	80.00	21.32	015°16'19.2"	
L3	6+145.296	5437085.966	286882.636		93.28		S07° 33' 34.43"E

BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
C5	6+238.578	5436993.495	286894.908	100.00	37.02	021°12'48.0"	
L4	6+275.602	5436956.734	286892.951		156.24		S13° 39' 13.57"W
C6	6+431.838	5436804.914	286856.071	30.00	18.86	036°01'21.8"	
L5	6+450.699	5436786.415	286857.481		26.55		S22° 22' 08.19"E
C7	6+477.248	5436761.864	286867.584	152.91	18.36	006°52'48.7"	
L6	6+495.609	5436745.344	286875.574		174.78		S29° 14' 56.87"E
C8	6+670.390	5436592.847	286960.973	600.00	21.81	002°04'58.3"	

BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
C9	6+692.201	5436573.627	286971.282	10.00	3.53	020°13'00.3"	
L7	6+695.730	5436570.271	286972.311		22.91		S06° 56' 58.30"E
C10	6+718.644	5436547.525	286975.084	4.93	12.64	146°55'25.9"	
L8	6+731.288	5436545.950	286984.405		11.26		N26° 07' 35.76"E
C11	6+742.552	5436556.063	286989.365	70.00	12.24	010°01'08.0"	
L9	6+754.792	5436566.527	286995.686		35.63		N36° 08' 43.72"E



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

PRELIMINARY
NOT FOR CONSTRUCTION

NOTES

1. REFER TO DRAWING C2 FOR LINEWORK AND SYMBOLS LEGEND.

2. REFER TO DRAWINGS C14 - C23 FOR NEW AND EXISTING ROAD PROFILES.

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4. ALL TIE IN LOCATIONS TO BE STEPPED TIE IN AS PER STANDARD DRAWINGS.

5. TIE IN ALL EXISTING ACCESS LOCATIONS AS INDICATED AND MATCH THE EXISTING MATERIAL OF EACH ACCESS.


(1233.45) EXISTING SURFACE ELEVATION
(1235.32) PROPOSED SURFACE ELEVATION

06.2512.5

1:250

m


amec foster wheeler




Consultant's Name
Nom de l'expert-conseil

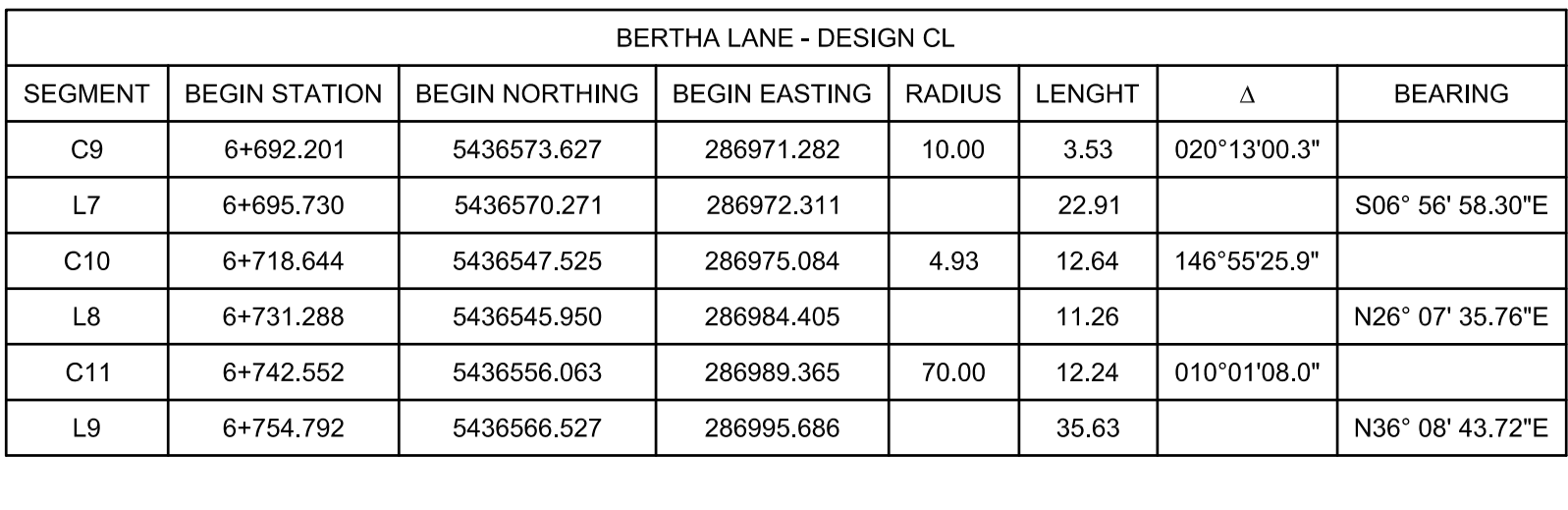
PERMIT TO PRACTICE
AMEC FOSTER WHEELER
ENVIRONMENTAL INFRASTRUCTURE
Signature
Date
PERMIT NUMBER: P04546
The Association of Professional
Engineers and Geoscientists of Alberta

Eng. Stamp
Sceau de l'ingénieur



D	ISSUED FOR ADDENDUM 2	16/09/01
C	ISSUED FOR TENDER	16/09/15
B	ISSUED FOR 100% REVIEW	16/09/05
A	ISSUED FOR 90% REVIEW	16/07/20
Revision/	Description/Description	Date/Date
Client/client		
 <div>Parks Canada Agency</div>	<div>L'Agence Parcs Canada</div>	
	Western and Northern Region	Ouest et Nord du Canada
	<div>Canada</div>	
Project title/Titre du projet		
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES		
PHASE C WATERTON LAKES NATIONAL PARK ALBERTA		
Approved by/Approuvé par APPROVED BY		
Designed by/Concept par B. ZACHER		
Drawn by/Dessiné par R. SCHULTZ		
PWGSC Project Manager/Administrateur de Projets TPSGC M. BURKE		
PWGSC Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSGC AERM BY		
Client/client J. LAMBE		
Drawing title/Titre du dessin		
SURFACE IMPROVEMENTS BERTHA LANE PLANS STA 6+160 TO STA 6+320		
Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
R.075721.001	C32	D
	OF 40	



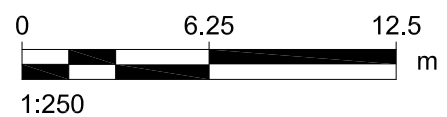


PRELIMINARY NOT FOR CONSTRUCTION

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(1233.45) EXISTING SURFACE ELEVATION
(1235.32) PROPOSED SURFACE ELEVATION



amec foster wheeler

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
PERMIT TO PRACTICE AMEC FOSTER WHEELER ENVIRONMENTAL ENGINEERING	
Signature Date	
PERMIT NUMBER: P04546 The Association of Professional Engineers and Geoscientists of Alberta	

Revision/ Révision	Description/Description	Date/Date
D	ISSUED FOR ADDENDUM 2	16/09/01
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Client/client

Parks Canada L'Agence Parcs
Canada

Western and Northern Region Ouest et Nord
du Canada

Canada

Project title/Titre du projet

WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES

PHASE C
WATERTON LAKES NATIONAL PARK
ALBERTA

Approved by/Approuvé par
APPROVED BY

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
R. SCHULTZ

PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

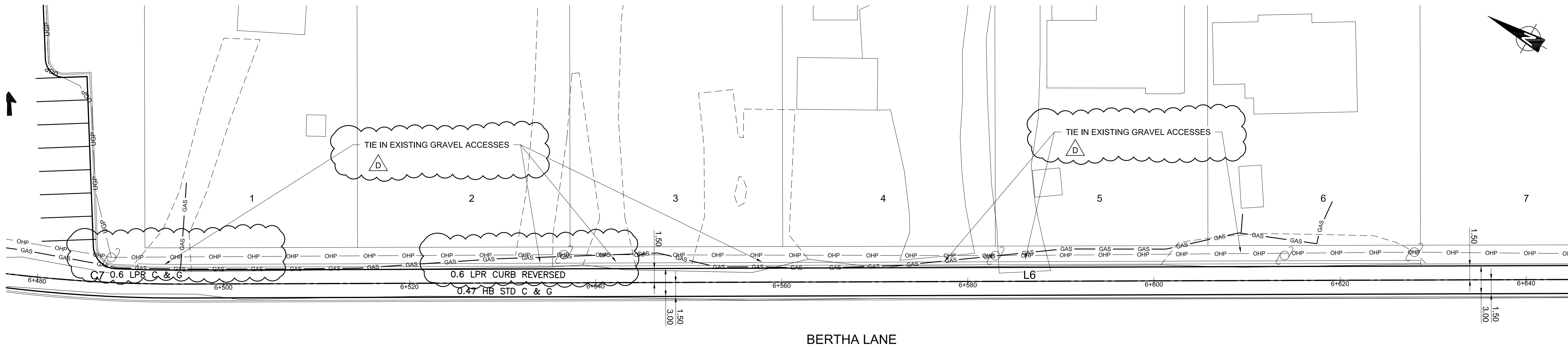
PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC
AERM BY

Client/client
J. LAMBE

Drawing title/Titre du dessin

SURFACE IMPROVEMENTS BERTHA LANE PLANS STA 6+480 TO STA 6+640

Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
R.075721.001	C34	D
	OF 40	

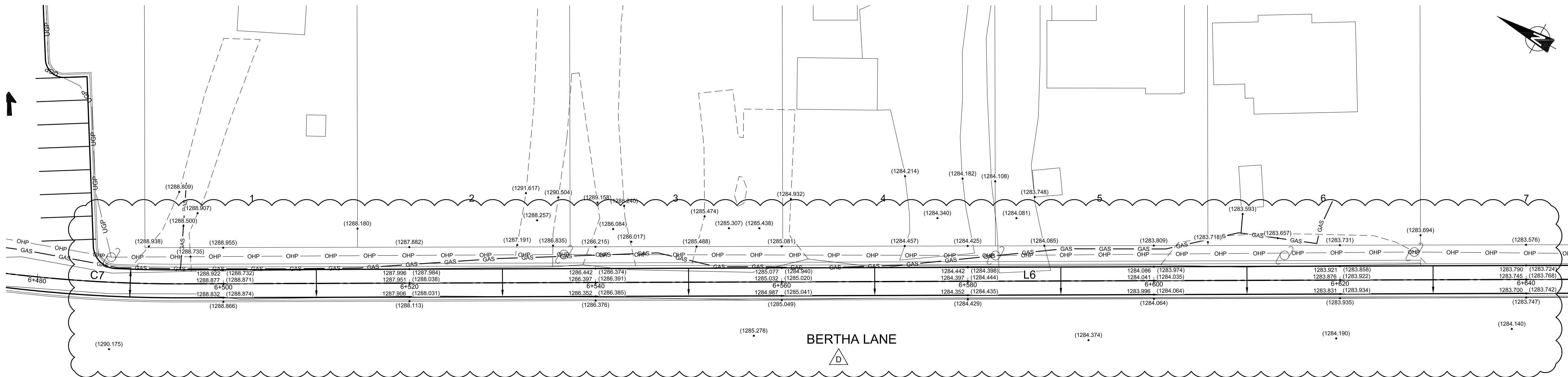


BERTHA LANE

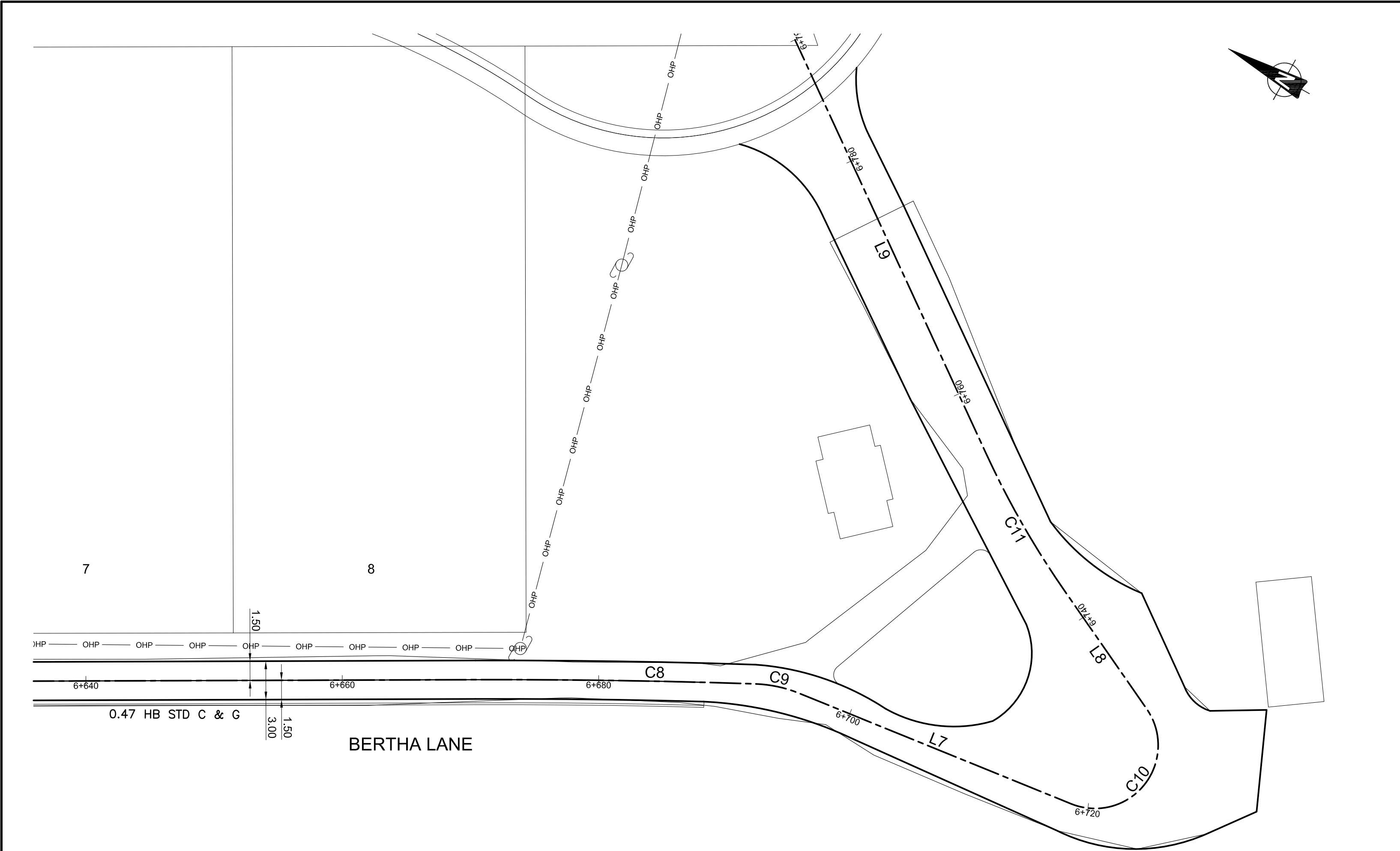
BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
L1	6+000.000	5437225.833	286913.118		20.49		S32° 17' 27.04"W
C1	6+020.495	5437208.508	286902.170	20.00	5.20	014°54'24.9"	
C2	6+025.698	5437203.799	286899.990	330.96	27.08	004°41'17.6"	
C3	6+052.778	5437177.653	286892.965	200.00	17.39	004°58'59.8"	
L2	6+070.173	5437160.539	286889.884		53.80		S07° 42' 44.80"W
C4	6+123.973	5437107.226	286882.664	80.00	21.32	015°16'19.2"	
L3	6+145.296	5437085.966	286882.636		93.28		S07° 33' 34.43"E

BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
C5	6+238.578	5436993.495	286894.908	100.00	37.02	021°12'48.0"	
L4	6+275.602	5436956.734	286892.951		156.24		S13° 39' 13.57"W
C6	6+431.838	5436804.914	286856.071	30.00	18.86	036°01'21.8"	
L5	6+450.699	5436786.415	286857.481		26.55		S22° 22' 08.19"E
C7	6+477.248	5436761.864	286867.584	152.91	18.36	006°52'48.7"	
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BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
C9	6+692.201	5436573.627	286971.282	10.00	3.53	020°13'00.3"	
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C10	6+718.644	5436547.525	286975.084	4.93	12.64	146°55'25.9"	
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C11	6+742.552	5436556.063	286989.365	70.00	12.24	010°01'08.0"	
L9	6+754.792	5436566.527	286995.686		35.63		N36° 08' 43.72"E



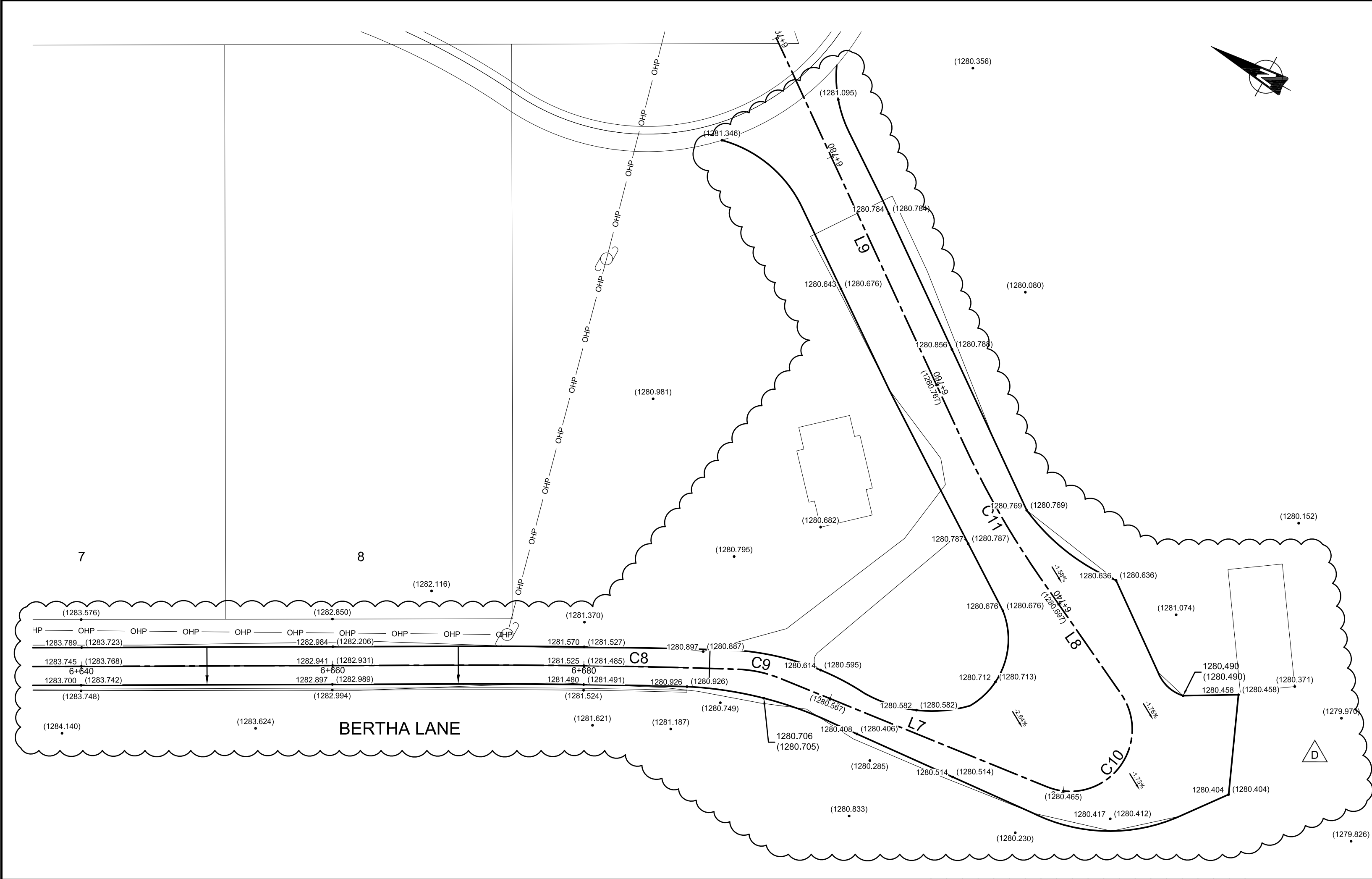
BERTHA LANE



BERTHA LANE - DESIGN CL							
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BERTHA LANE - DESIGN CL							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGHT	Δ	BEARING
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L8	6+731.288	5436545.950	286984.405		11.26		N26° 07' 35.76"E
C11	6+742.552	5436556.063	286989.365	70.00	12.24	010°01'08.0"	
L9	6+754.792	5436566.527	286995.686		35.63		N36° 08' 43.72"E



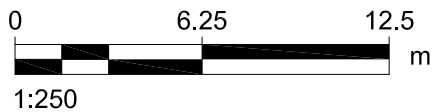
PRELIMINARY

NOT FOR CONSTRUCTION

NOTES

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(1233.45) EXISTING SURFACE ELEVATION
(1235.32) PROPOSED SURFACE ELEVATION



amec foster wheeler

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
PERMIT TO PRACTICE AMEC FOSTER WHEELER ENGINNER'S INSTRUCTIONS	
Signature Date	
PERMIT NUMBER: P04546 The Association of Professional Engineers and Geoscientists of Alberta	

Revision/	Description/Description	Date/Date
D	ISSUED FOR ADDENDUM 2	16/09/01
C	ISSUED FOR TENDER	16/09/15
B	ISSUED FOR 100% REVIEW	16/09/05
A	ISSUED FOR 90% REVIEW	16/07/20

Client/client

Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Canada

Project title/Titre du projet

**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES**

PHASE C

**WATERTON LAKES NATIONAL PARK
ALBERTA**

Approved by/Approuve par
APPROVED BY

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
R. SCHULTZ

PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC
AERM BY

Client/client
J. LAMBE

Drawing title/Titre du dessin

**SURFACE IMPROVEMENTS
BERTHA LANE
PLANS**

STA 6+640 TO STA 6+697

Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
R.075721.001	C35 OF 40	D



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

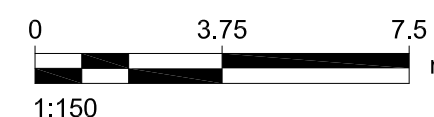
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

PRELIMINARY
NOT FOR CONSTRUCTION

NOTES

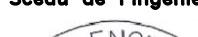
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(1233.45)	EXISTING SURFACE ELEVATION
1235.32	PROPOSED SURFACE ELEVATION



amec foster wheeler



<p>Consultant's Name Nom de l'expert-conseil</p> <p>PERMIT TO PRACTICE A/NEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE</p> <p>Signature Date</p> <p>PERMIT NUMBER: P04546 The Association of Professional Engineers and Geoscientists of Alberta</p>	<p>Eng. Stamp Sceau de l'ingénieur</p> 
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D	ISSUED FOR ADDENDUM 2	16/09/01
C	ISSUED FOR TENDER	16/08/15
B	ISSUED FOR 100% REVIEW	16/08/05
A	ISSUED FOR 90 % REVIEW	16/07/20

Revision/ Revision	Description/Description	Date/Date
Client/client		



 Parks Canada
Agence Parcs Canada

Western and Northern Region Ouest et Nord du Canada

Canada^{ca}

Project title/Titre du projet

WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES

PHASE C

WATERTON LAKES NATIONAL PARK
ALBERTA

Approved by/Approuve par
APPROVED BY

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
R. SCHULTZ

PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

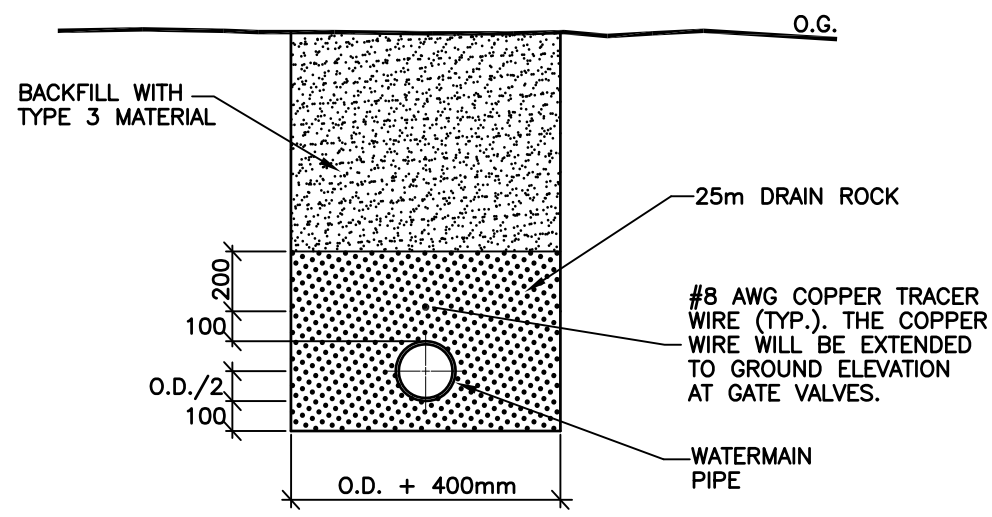
PWGSC, A
Ressource
AERM BY

Client/cliente
J. LAMBERT

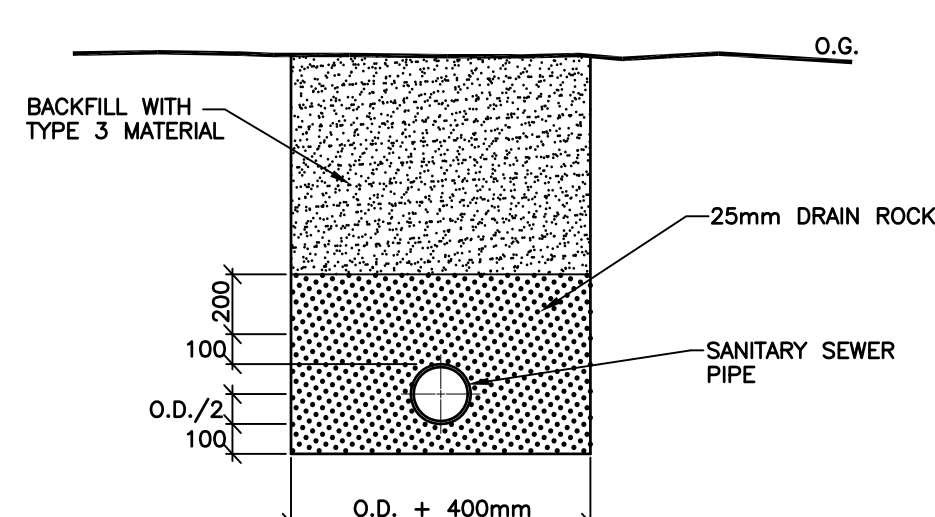
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SURFACE IMPROVEMENTS BERTHA TRAIL PARKING LOT PLAN

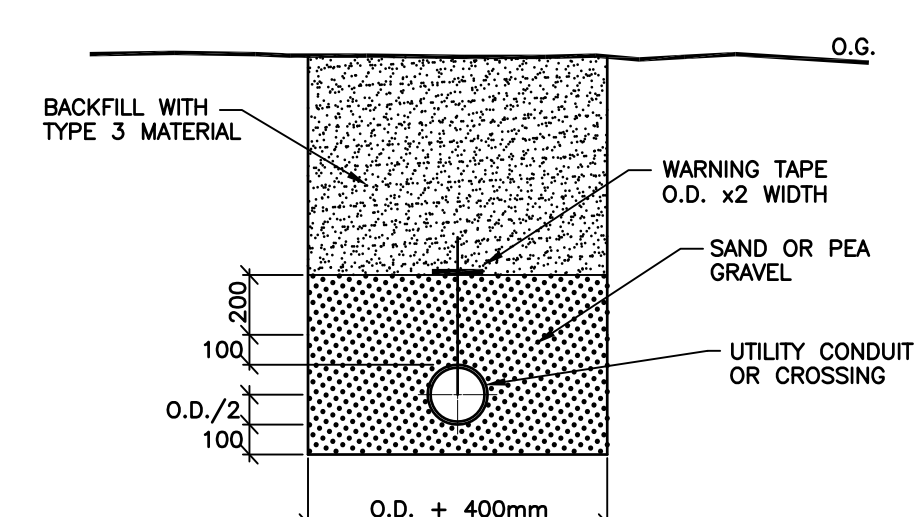
Project No./No. du projet R.075721.001	Sheet/Feuille C36	Revision no. La Révision no. D
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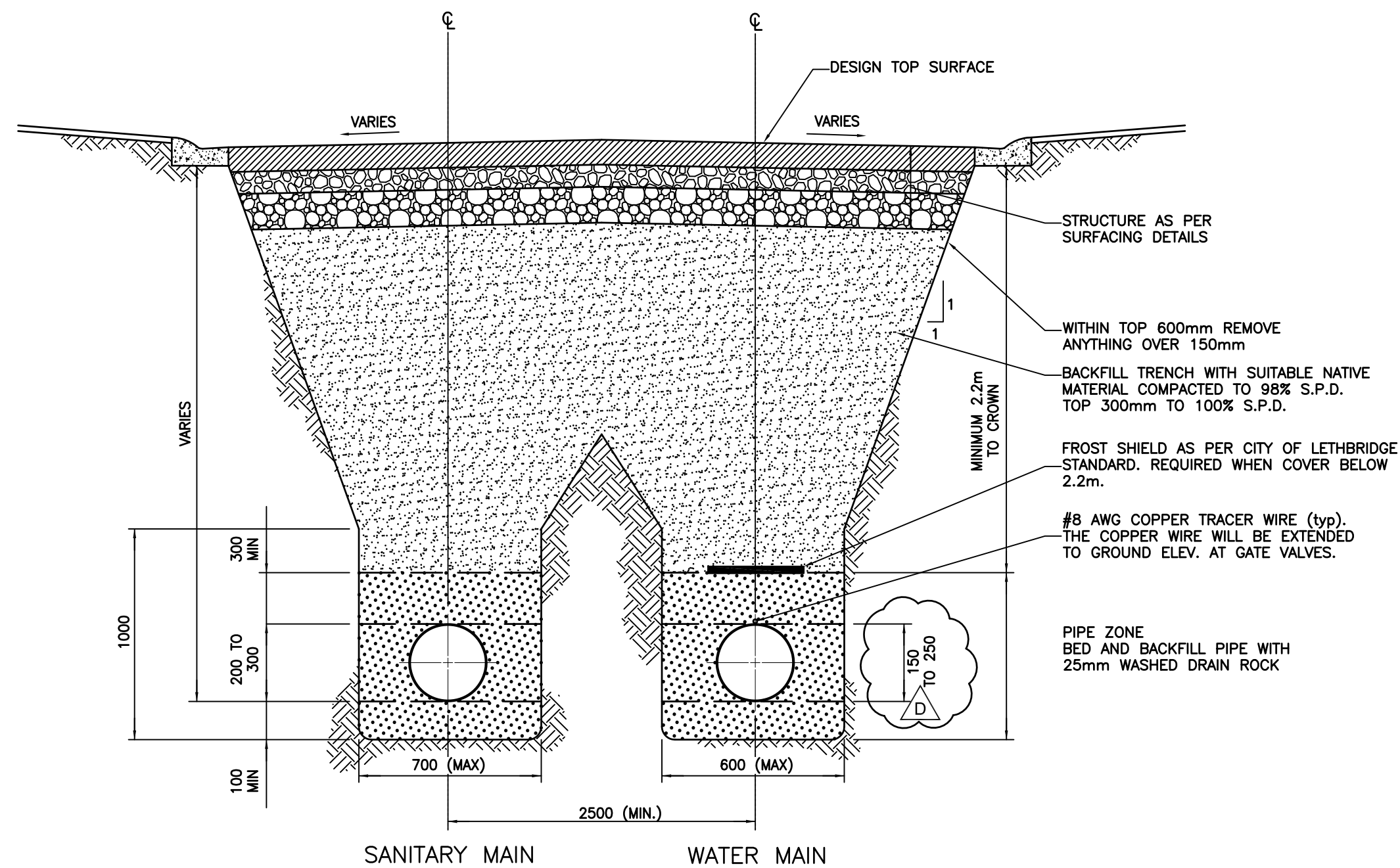
1 WATER LINE AND WATER SERVICE TRENCH DETAIL
N.T.S.



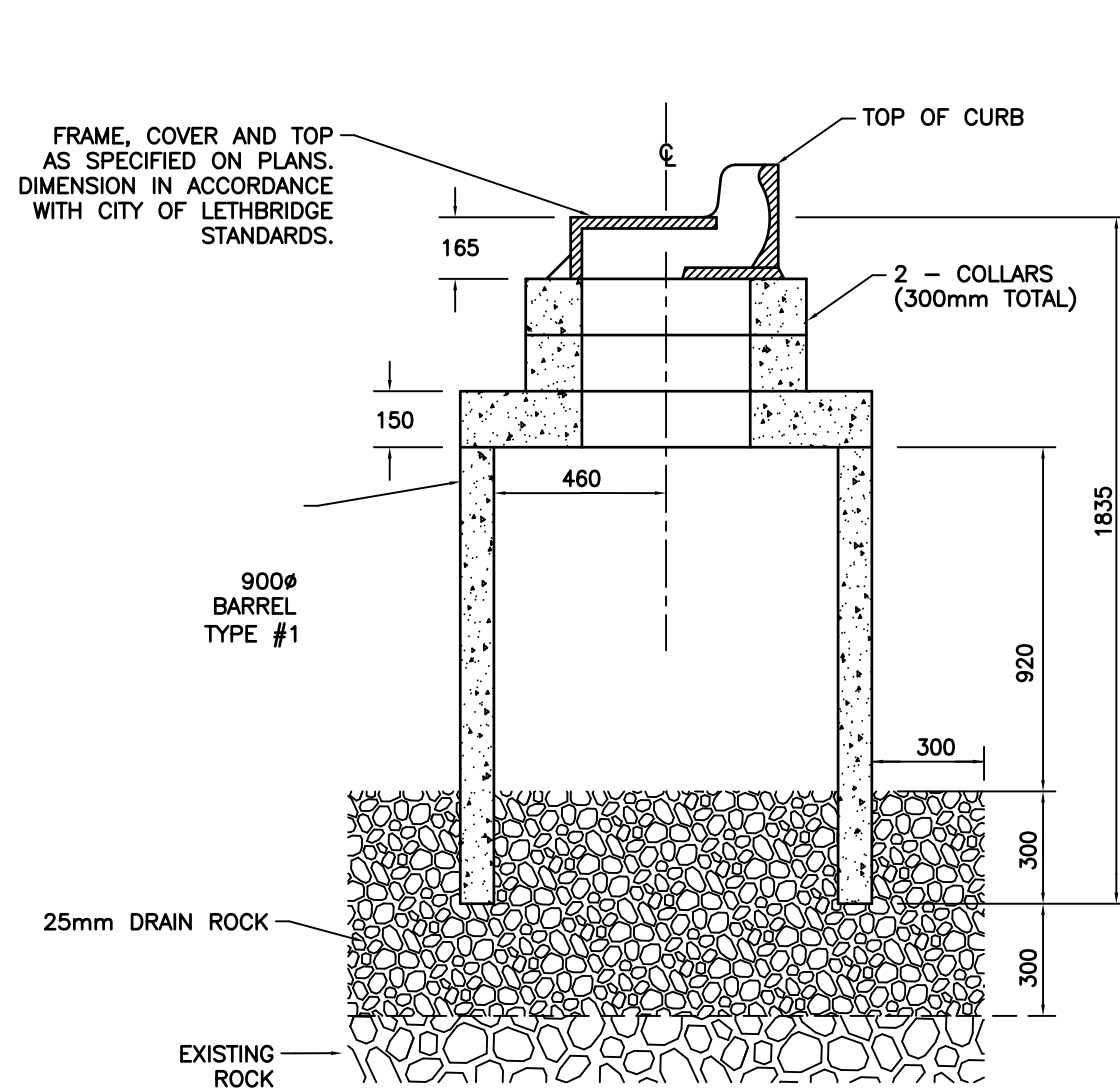
2 SANITARY SEWER AND SANITARY SERVICE TRENCH DETAIL
N.T.S.



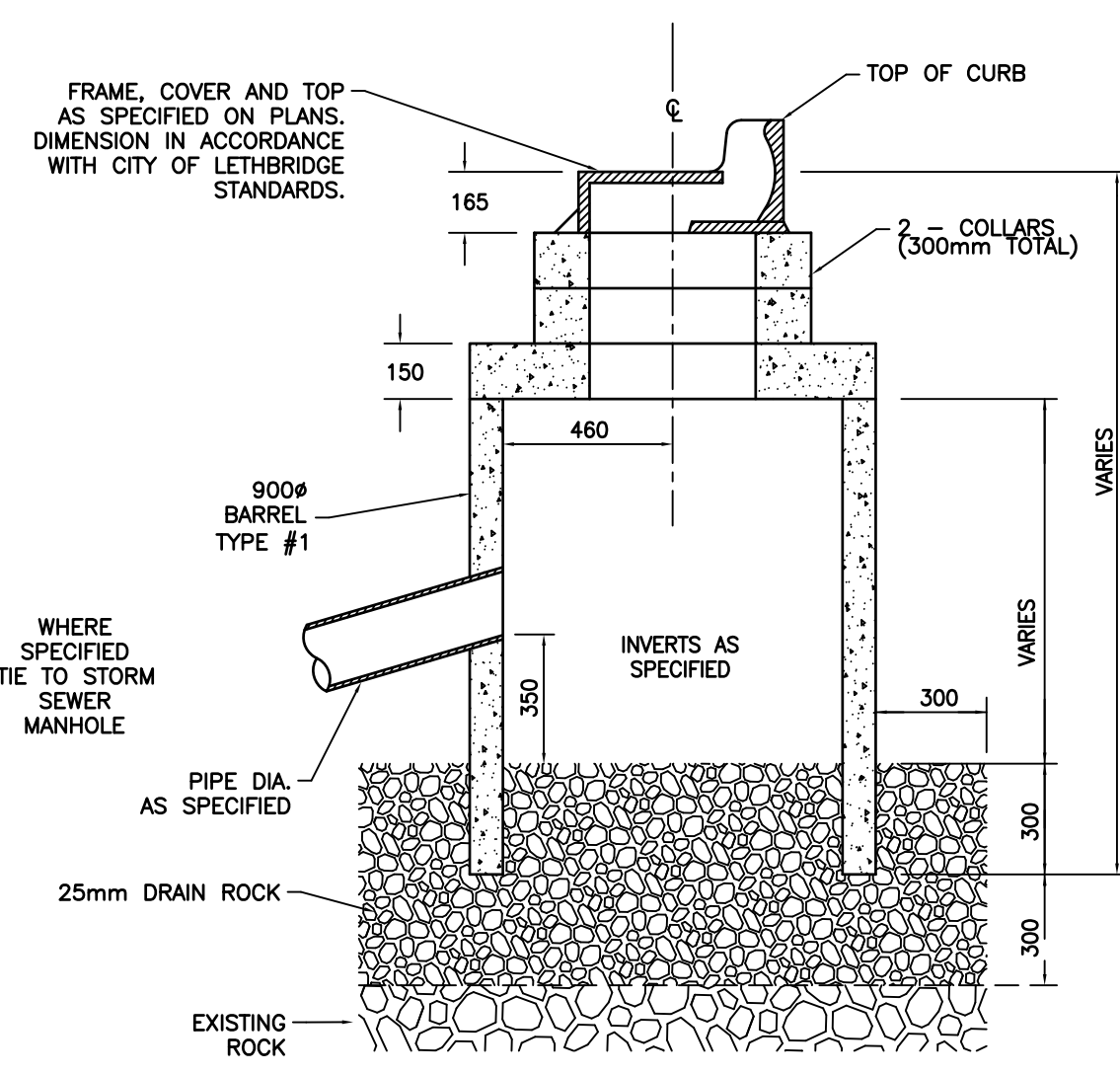
3 UTILITY BACKFILL TRENCH DETAIL
N.T.S.



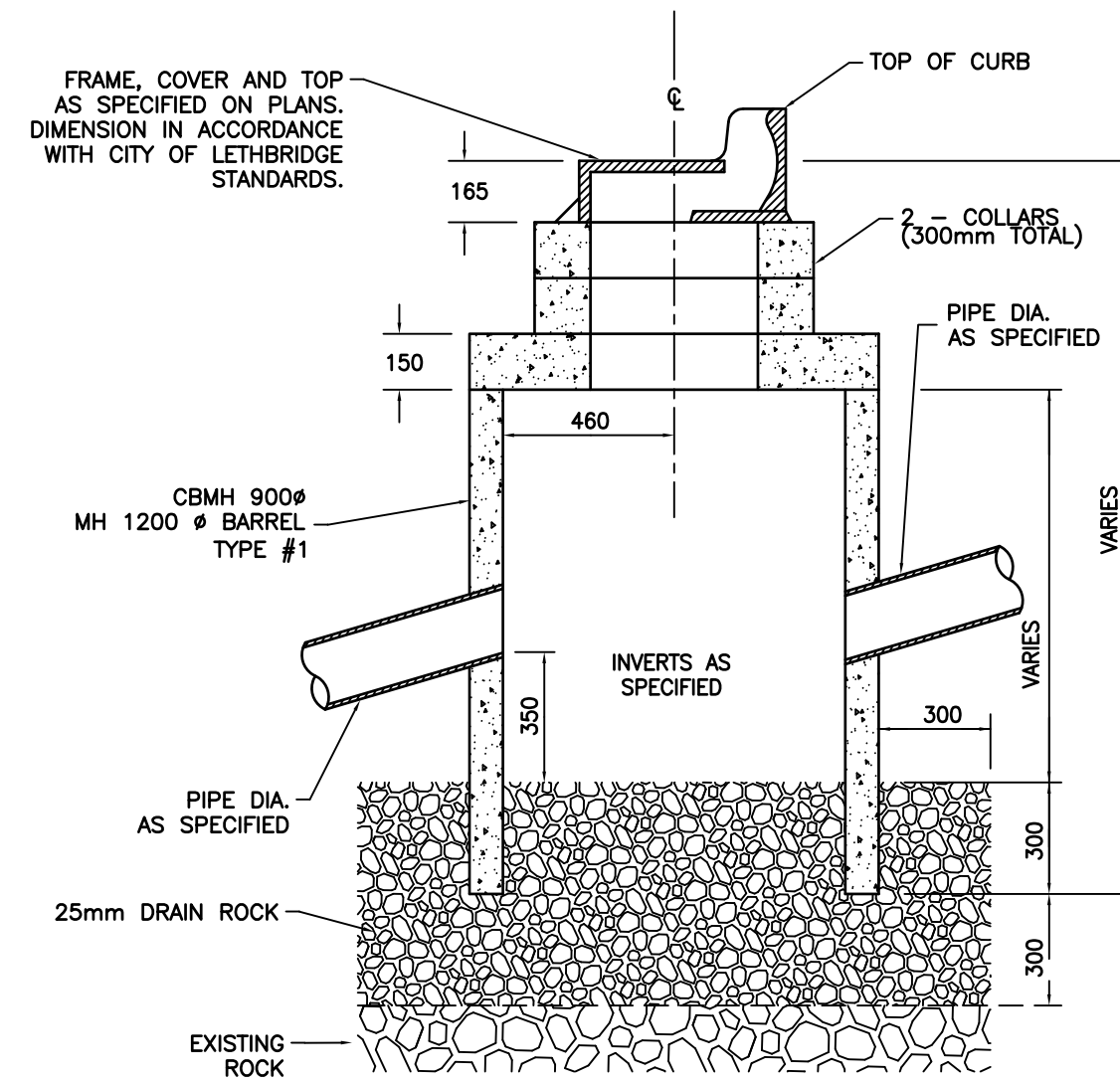
4 SIDE-BY-SIDE TRENCH DETAIL
N.T.S.



5 OPEN BOTTOM CATCH BASIN DETAIL
NO LEAD
N.T.S.



6 OPEN BOTTOM CATCH BASIN DETAIL
WITH LEAD
N.T.S.



7 OPEN BOTTOM CATCH BASIN MANHOLE
& MANHOLE DETAIL
N.T.S.

PRELIMINARY NOT FOR CONSTRUCTION

NOTES

- SEE MANHOLE TABLES FOR TYPE OF CB, CBMH & MANHOLE SPECIFIED FOR EACH LOCATION.

amec foster wheeler

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
PERMIT TO PRACTICE AMEC FOSTER WHEELER ENVIRONMENTAL INFRASTRUCTURE	
Signature Date	
PERMIT NUMBER: P04546 The Association of Professional Engineers and Geoscientists of Alberta	

Revision/ Révision	Description/Description	Date/Date
D	ISSUED FOR ADDENDUM 2	18/09/01
C	ISSUED FOR TENDER	18/09/15
B	ISSUED FOR 100% REVIEW	18/09/05
A	ISSUED FOR 90% REVIEW	18/07/20

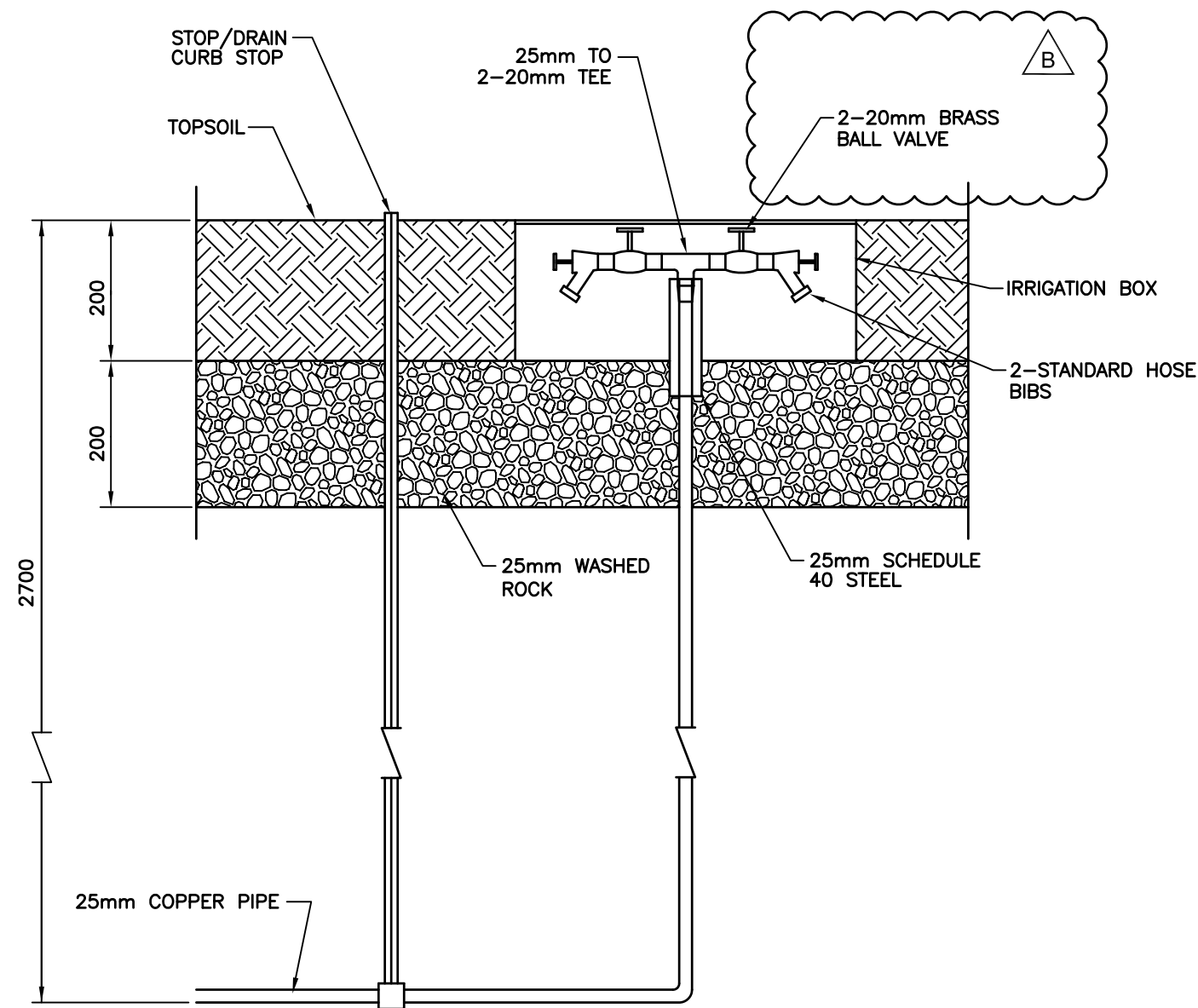
Client/client	
Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Canada

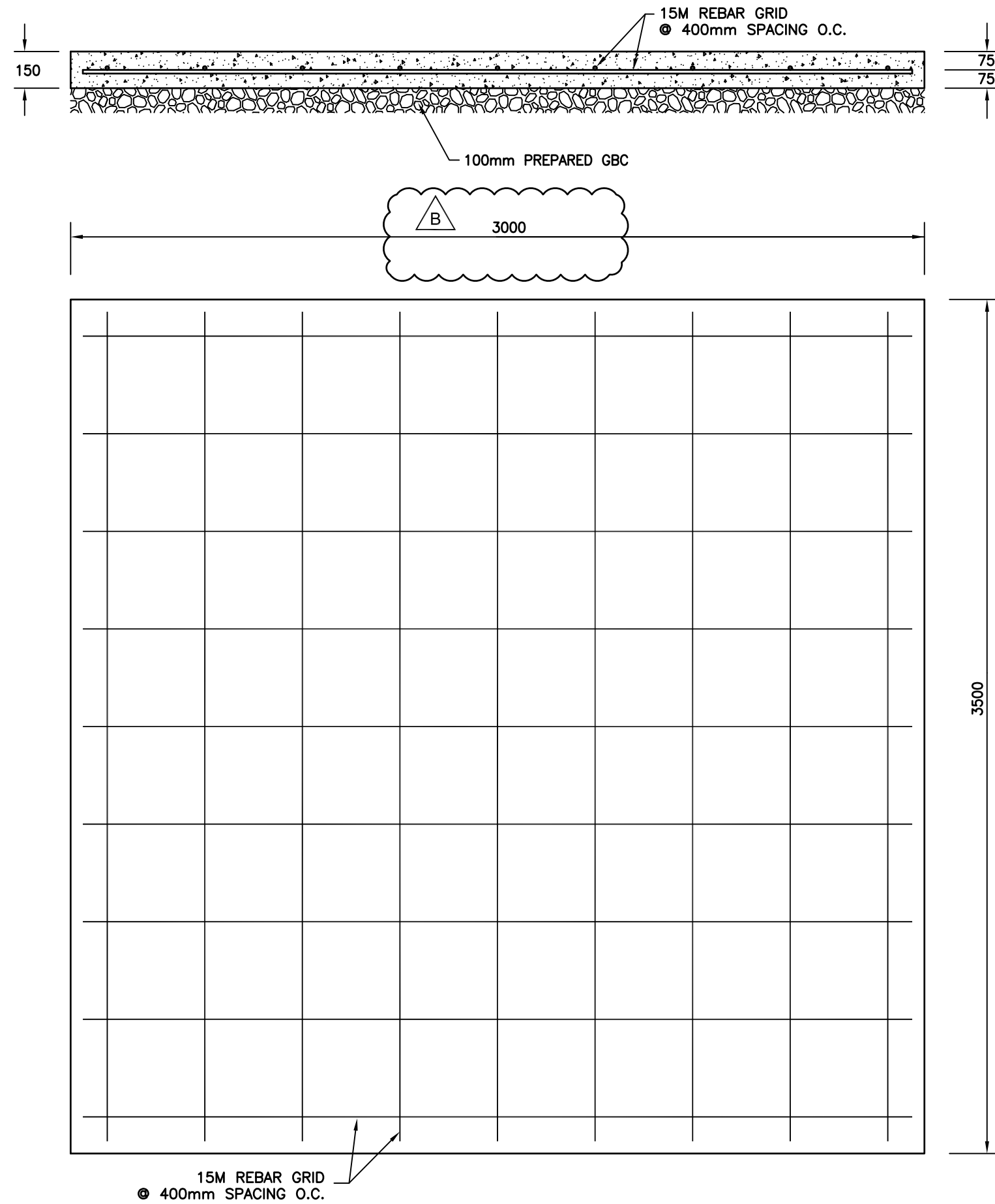
Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES
PHASE C
WATERTON LAKES NATIONAL PARK ALBERTA

Approved by/Approuvé par APPROVED BY
Designed by/Concept par B. ZACHER
Drawn by/Dessiné par B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TPSGC M. BURKE
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSGC AERM BY
Client/client J. LAMBE
Drawing title/Titre du dessin

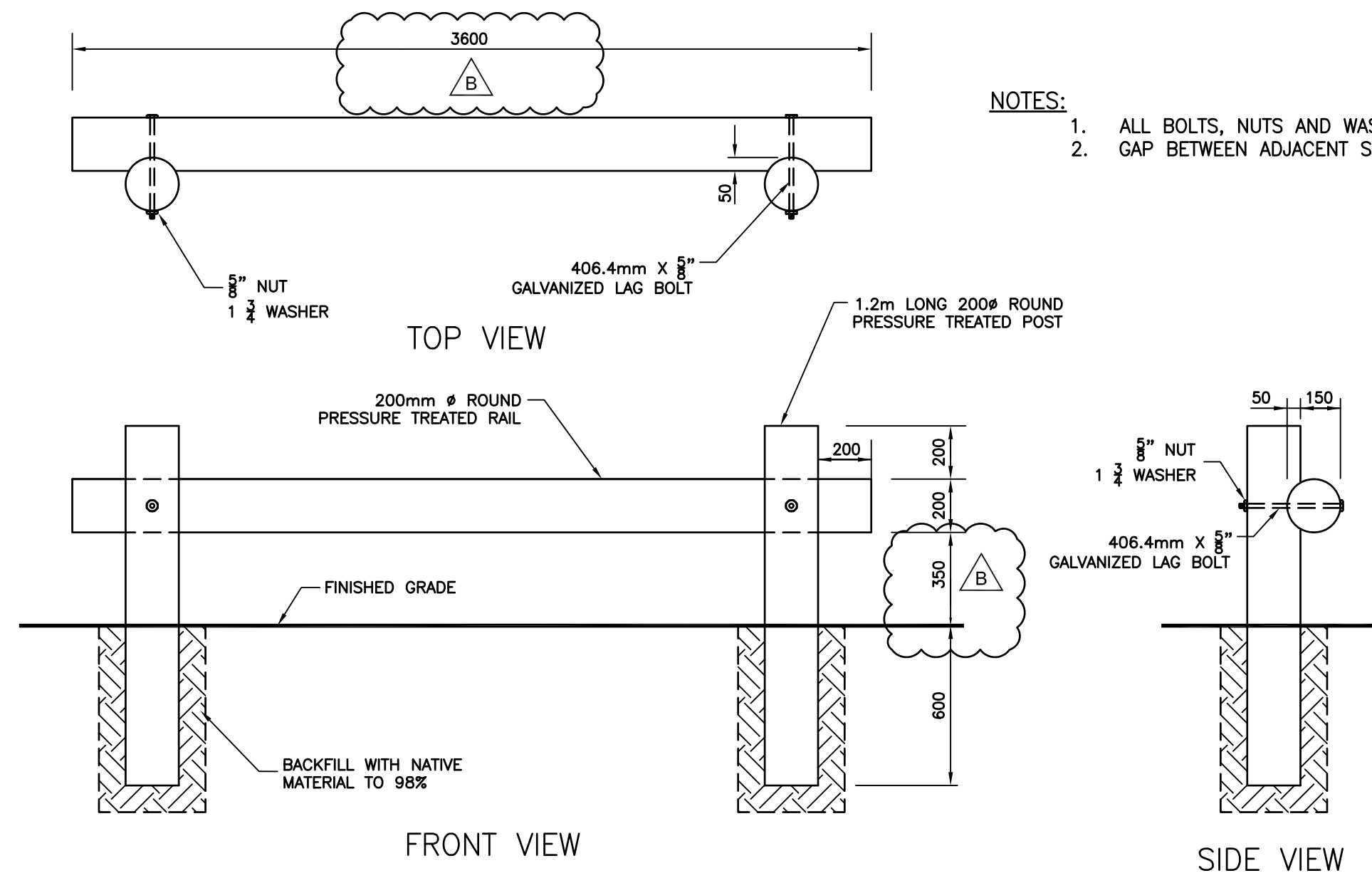
Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
R.075721.001	C37 OF 40	D



8 STAND PIPE DETAIL
N.T.S.

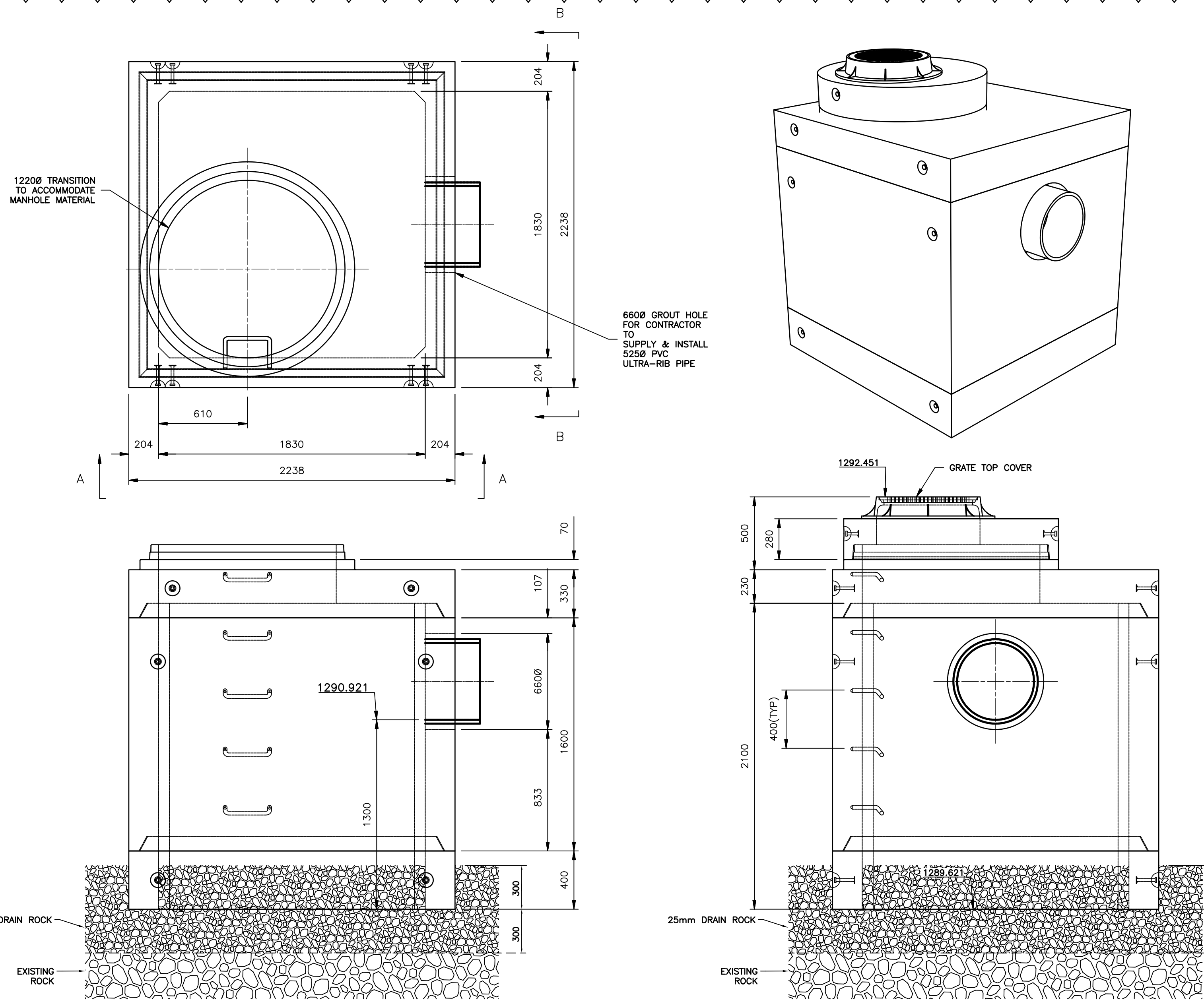


9 CONCRETE BASE FOR SINGLE GARBAGE BIN
N.T.S.



- NOTES:
1. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
 2. GAP BETWEEN ADJACENT SECTIONS TO BE 1m.

10 POST AND RAIL FENCE
N.T.S.



11 VAULT STRUCTURE VS 504
N.T.S.

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

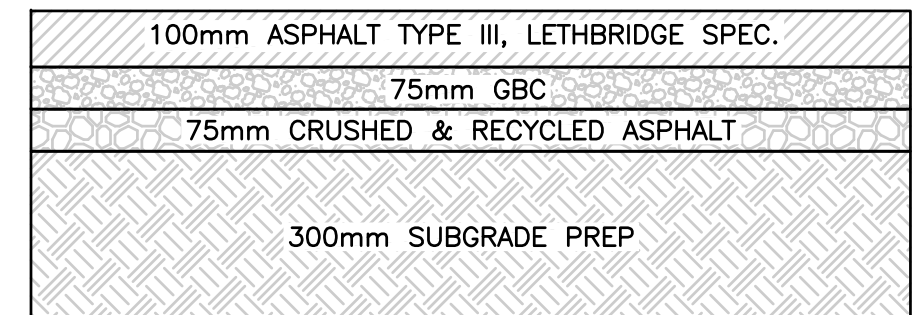
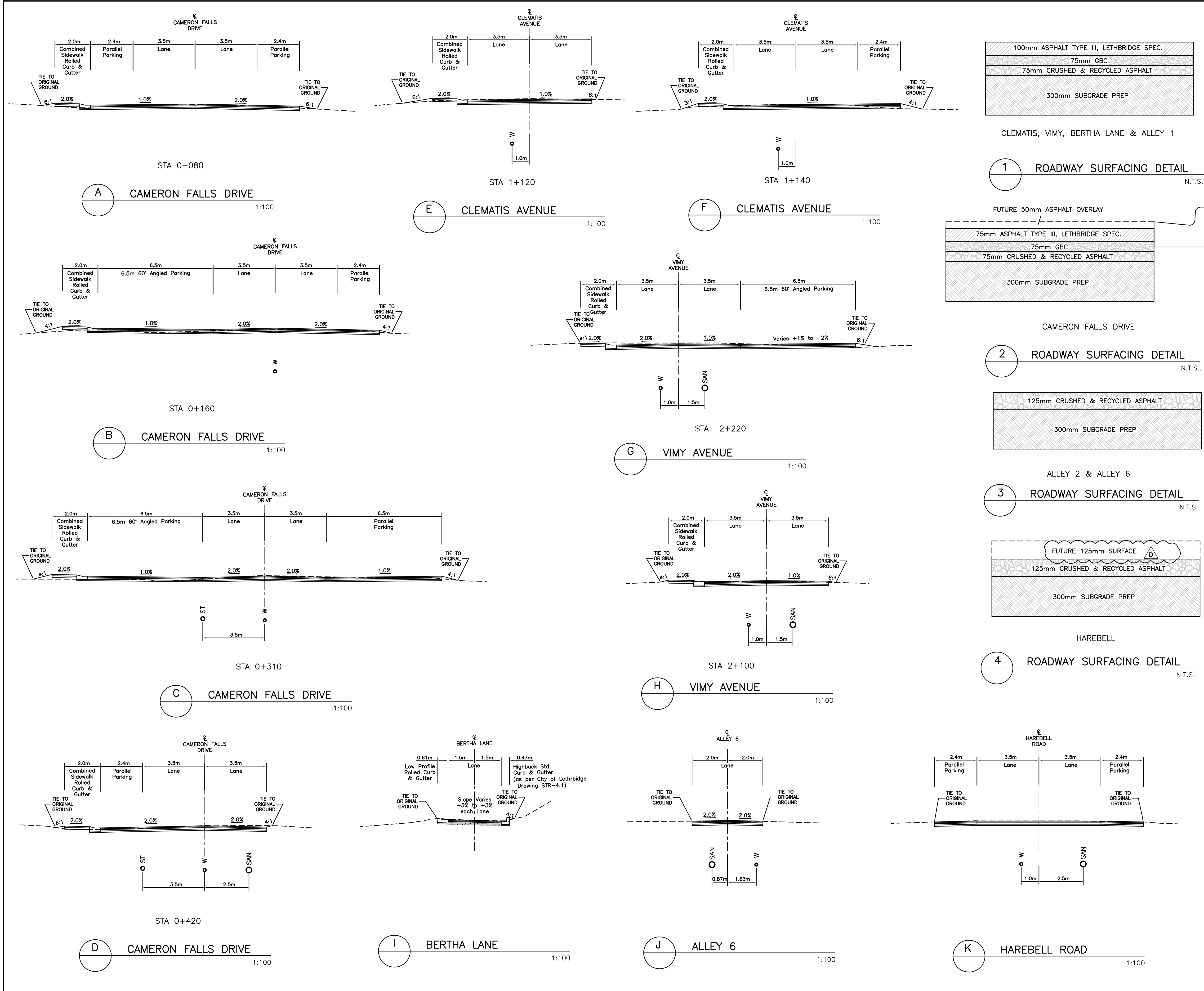
PRELIMINARY

NOT FOR CONSTRUCTION

NOTES

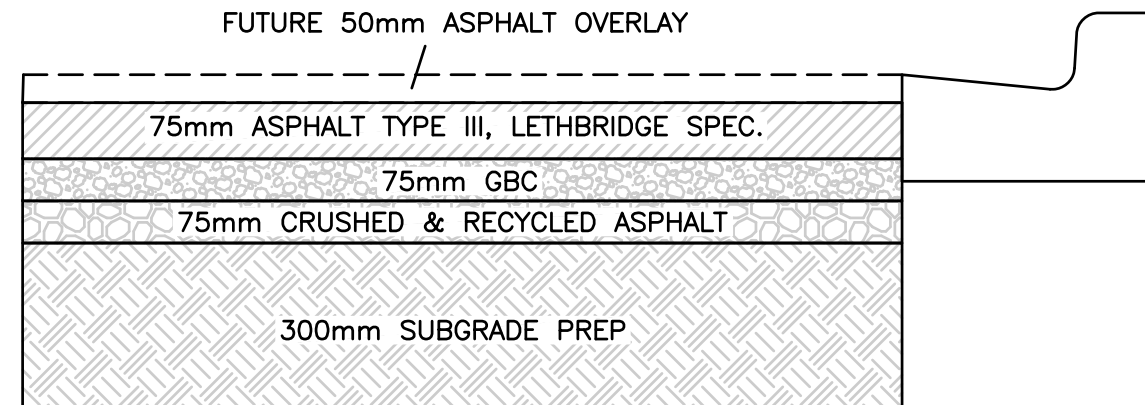
1. SEE MANHOLE TABLES FOR TYPE OF CB, CBMH & MANHOLE SPECIFIED FOR EACH LOCATION.

Consultant's Name Nom de l'expert-conseil PERMIT TO PRACTICE AMEC FOSTER WHEELER ENVIRONMENTAL INFRASTRUCTURE Signature: <i>[Signature]</i> Date: <i>Sept 21/16</i> PERMIT NUMBER: P04546 The Association of Professional Engineers and Geoscientists of Alberta		Eng. Stamp Sceau de l'ingénieur
B	ISSUED FOR ADDENDUM 2	16/09/01
A	ISSUED FOR TENDER	16/08/15
Revision/	Description/Description	Date/Date
Client/client		
Parks Canada Agency Western and Northern Region		L'Agence Parcs Canada Ouest et Nord du Canada
<h1>Canada</h1>		
Project title/Titre du projet WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE C WATERTON LAKES NATIONAL PARK ALBERTA		
Approved by/Approuvé par APPROVED BY		
Designed by/Concept par B. ZACHER		
Drawn by/Dessiné par B. JOHNSON		
PWGSC Project Manager/Administrateur de Projets TPSGC M. BURKE		
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC AERM BY		
Client/client J. LAMBE		
Drawing title/Titre du dessin DETAILS		
Project No./No. du projet R.075721.001	Sheet/Fauille C38 OF 40	Revision no./La Révision no. B



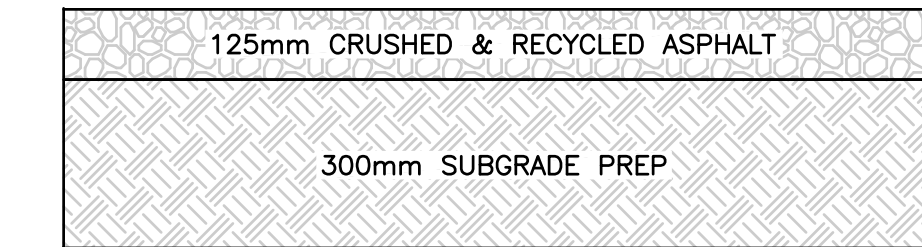
CLEMATIS, VIMY, BERTHA LANE & ALLEY 1

1 ROADWAY SURFACING DETAIL N.T.S..



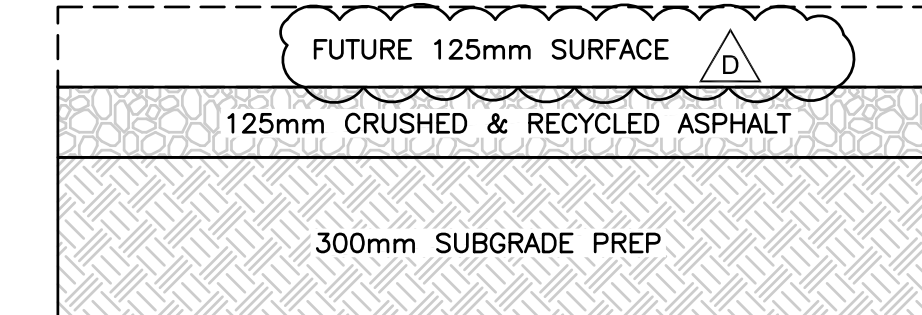
CAMERON FALLS DRIVE

2 ROADWAY SURFACING DETAIL N.T.S..




ALLEY 2 & ALLEY 6

3 ROADWAY SURFACING DETAIL N.T.S..



HAREBELL

4 ROADWAY SURFACING DETAIL N.T.S..



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

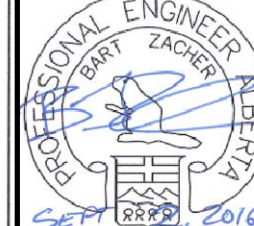
PRELIMINARY

NOT FOR CONSTRUCTION


NOTES

1. NEW UTILITIES SHOWN FOR OFFSET
REFERENCE ONLY.

Consultant's Name
Nom de l'expert-conseil
PERMIT TO PRACTICE
AMEC FOSTER WHEELER
ENVIRONMENTAL & INFRASTRUCTURE
Signature: *[Signature]*
Date: *Sept 21/16*
PERMIT NUMBER: P04546
The Association of Professional
Engineers and Geoscientists of Alberta

Eng. Stamp
Sceau de l'ingénieur


Revision/	Description/Description	Date/Date
D	ISSUED FOR ADDENDUM 2	16/09/01
C	ISSUED FOR TENDER	16/09/15
B	ISSUED FOR 100% REVIEW	16/08/05
A	ISSUED FOR 90% REVIEW	16/07/20

Client/client


Parks Canada
Agency

L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES**
PHASE C
WATERTON LAKES NATIONAL PARK
ALBERTA

Approved by/Approuvé par
APPROVED BY

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC
AERM BY

Client/client
J. LAMBE

Drawing title/Titre du dessin
TYPICAL SECTIONS

Project No./No. du projet R.075721.001	Sheet/Fauille C39 OF 40	Revision no./ La Révision no. D
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CAMERON FALLS DRIVE - NEW WATER UTILITY DATA				
REFERENCE	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	INVERT ELEVATION (m)	DESCRIPTION
F1	0+179.43	-4.52		250 45° ELBOW
F2	0+184.25	0.00		250 45° ELBOW
F3	0+233.89	0.00		250 x 250 x 200 x 200 CROSS
F30	0+233.89	-2.47		200 x 150 REDUCER
V1	0+233.89	1.66		200 VALVE
S.P. 1	0+235.40	-13.53		STOP DRAIN & STAND PIPE
V2	0+237.90	0.00		250 VALVE
V3	0+236.58	-15.00		150 VALVE
F5	0+272.94	0.00		250 x 250 x 150 TEE
HV1	0+272.94	-2.00		150 VALVE
H1	0.272.94	-7.51		HYDRANT
V4	0+274.93	0.00		250 VALVE
F6	0+291.16	0.00		250 x 250 x 150 TEE
V24	0+291.12	10.04		150 VALVE
F7	0+305.12	0.00		250 x 250 x 150 TEE
V5	0+305.12	-2.00		150 VALVE
F8	0+305.12	-16.81		150 PLUG
V6	0+307.12	0.00		250 VALVE
F9	0+335.90	0.00		250 x 250 x 150 TEE
HV2	0+335.90	7.72		150 VALVE
H2	0+335.90	10.69		HYDRANT
F10	0+351.45	0.00		250 x 250 x 150 TEE
F11	0+355.02	0.00		250 x 250 x 150 TEE
V7	0+358.58	0.00		250 VALVE
F31	0+421.24	0.00		250 x 250 x 150 TEE
V23	0+421.26	-8.10		150 VALVE
F32	0+421.90	0.00		250 5° ELBOW
F33	0+430.00	0.91		250 5° ELBOW
F4	0+430.80	0.97		250 x 200 REDUCER
V8	0+432.53	1.00		200 VALVE

CLEMATIS AVENUE - NEW WATER UTILITY DATA				
REFERENCE	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	INVERT ELEVATION (m)	DESCRIPTION
V1	1+001.51	-3.51		200 VALVE
F12	1+003.11	-3.82		200 45° ELBOW
F13	1+007.38	0.50		200 45° ELBOW
H3	1+117.23	8.59		HYDRANT
HV3	1+118.82	10.11		150 VALVE
V10	1+119.65	13.71		150 VALVE
F16	1+120.97	12.19		150 x 150 x 150 TEE
V9	1+125.76	-9.94		150 VALVE
F14	1+126.37	0.53		200 x 200 x 150 x 150 CROSS
F15	1+126.66	5.72		200 45° ELBOW
V11	1+130.27	0.59		200 VALVE
F17	1+182.57	3.78		200 X 200 X 150 TEE
V12	1+182.68	0.27		150 VALVE
F18	1+193.50	0.00		200 45° ELBOW
F40	1+216.30	0.00		200 X 150 FLANGED REDUCER

VIMY AVENUE - NEW WATER UTILITY DATA				
REFERENCE	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	INVERT ELEVATION (m)	DESCRIPTION
F17	2+020.31	-1.00		200 X 200 X 150 TEE
V12	2+023.82	-1.00		150 VALVE
H4	2+076.00	11.87		HYDRANT
HV4	2+078.53	12.12		150 VALVE
F19	2+079.29	-1.00		150 45° ELBOW
V13	2+081.15	23.13		150 VALVE
F21	2+082.49	12.51		150 x 150 x 150 TEE
F20	2+083.62	3.59		150 45° ELBOW
F24	2+171.21	-1.00		150 x 150 x 150 TEE
F26	2+188.60	-0.88		150 x 150 x 150 TEE
HV5	2+188.60	-4.48		150 VALVE
H5	2+188.60	-6.07		HYDRANT
V18	2+226.38	-0.75		150 VALVE
F27	2+229.46	-0.74		150 x 150 x 150 TEE
F28	2+270.54	-0.59		150 45° ELBOW
F29	2+271.22	0.10		150 45° ELBOW

HAREBELL ROAD - NEW WATER UTILITY DATA				
REFERENCE	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	INVERT ELEVATION (m)	DESCRIPTION
V14	3+141.26	14.31		150 VALVE
F22	3+142.30	3.51		150 45° ELBOW
F23	3+144.71	1.50		150 45° ELBOW
V15	3+194.83	1.50		150 VALVE
F24	3+196.84	1.50		150 x 150 x 150 TEE
V16	3+198.85	1.50		150 VALVE
F25	3+211.17	1.50		150 22.5° ELBOW
V17	3+217.65	4.18		150 VALVE
TIE IN	3+217.70	4.20		
F10	3+000.00	1.00		250 x 250 x 150 TEE
V20	3+003.00	1.00		150 VALVE
F26	3+048.58	1.00		150 45° ELBOW

ALLEY 6 - NEW WATER UTILITY DATA				
REFERENCE	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	INVERT ELEVATION (m)	DESCRIPTION
F10	4+000.00	0.00		250 x 250 x 150 TEE
V20	4+003.00	0.00		150 VALVE
F26	4+048.53	0.00		150 45° ELBOW
S.P. 2	4+077.64	-13.66		STOP DRAIN & STAND PIPE
F34	4+119.53	0.00		150 45° ELBOW
F28	4+135.61	0.00		150 x 150 x 150 TEE
HV6	4+135.61	-1.00		150 VALVE
H6	4+135.61	-5.60		HYRANT
V19	4+227.40	0.00		150 VALVE
F27	4+232.17	0.00		150 X 150 X 150 TEE

ALLEY 2 - NEW WATER UTILITY DATA				
REFERENCE	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	INVERT ELEVATION (m)	DESCRIPTION
V21	5+006.10	-1.37		150 VALVE
F35	5+008.00	-1.36		FLANGED REDUCER 200 HDPE TO 150 PVC
F36	5+081.70	-1.56		FLANGED REDUCER 200 HDPE TO 150 PVC
V22	5+085.33	-1.56		150 VALVE
F38	5+087.24	-1.56		FLANGED REDUCER 150 PVC TO 100 CAST IRON

PR ST CAMERON FALLS DR				
STUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
CB 90	0+185.12	-3.500	1289.927	DETAIL 5 SHEET C37 WITH GRADED ROUND TOP
CB 99	0+269.94	-3.500	1287.769	TYPE 1 BARREL C/W FRAME AND GRADED ROUND TOP
CBMH 98	0+318.03	-3.500	1286.545	DETAIL 5 SHEET C37 WITH GRADED ROUND TOP
CB 9B	0+340.90	4.250	1285.935	STANDARD CATCH BASIN WITH ROLLED CURB FRAME & GRATE
CB 9A	0+349.76	-6.250	1285.696	STANDARD CATCH BASIN WITH ROLLED CURB FRAME & GRATE

PR SAN SOUTH				
STRUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
MH 80	0+352.76	43.187	1285.749	
MH 81	0+353.89	2.500	1285.712	
MH 110	2+221.53	-118.789	1284.478	
MH 111	2+227.26	-63.003	1283.986	
MH 108	2+233.73	1.655	1283.360	

PR ST VIMY AVE				
STUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
CB 94	0+331.56	192.123	1285.002	DETAIL 5 SHEET C37 WITH ROLLED CURB FRAME & GRATE
CB 95	0+415.17	201.993	1283.175	DETAIL 5 SHEET C37 WITH ROLLED CURB FRAME & GRATE

PR SAN VIMY AVE				
STUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
MH 107	2+173.95	1.568	1284.656	
MH 108	2+233.73	1.655	1283.360	


PR ST BERTHA LANE				
STUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
CBMH 500	6+120.00	1.700	1296.842	DETAIL 7 SHEET C37 WITH STANDARD CURB FRAME & GRATE
CBMH 501	6+165.00	1.700	1293.872	DETAIL 7 SHEET C37 WITH STANDARD CURB FRAME & GRATE
CBMH 502	6+208.53	1.700	1292.756	DETAIL 7 SHEET C37 WITH STANDARD CURB FRAME & GRATE
MH 503	6+241.35	0.384	1293.946	TYPE 1 MANHOLE
VS 504	6+255.75	-16.595	1292.451	DETAIL 11 SHEET C38 OPEN BOTTOM VAULT STRUCTURE
CBMH 550	6+466.42	-35.514	1287.400	DETAIL 5 SHEET C37 WITH STANDARD CURB FRAME & GRATE
CBMH 551	6+482.93	-22.042	1287.883	DETAIL 5 SHEET C37 WITH STANDARD CURB FRAME & GRATE

PR ST CLEMATIS AVE				
STUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
CB 93	0+205.40	159.207	1286.981	DETAIL 5 SHEET C37 WITH ROLLED CURB FRAME & GRATE
CB 92	0+212.76	113.289	1286.919	DETAIL 5 SHEET C37 WITH ROLLED CURB FRAME & GRATE
CB 91	0+219.14	80.160	1286.885	DETAIL 5 SHEET C37 WITH ROLLED CURB FRAME & GRATE

PR SAN CLEMATIS AVE				
STUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
MH 112	1+042.21	-2.000	1287.560	
MH 104	1+125.22	-1.977	1287.015	

PR SAN ALLEY 2				
STRUCTURE NAME	ALIGNMENT STATION	ALIGNMENT OFFSET (m)	RIM ELEVATION (m)	DESCRIPTION
MH 303	5+080.73	-0.455	1285.805	
MH 302	5+169.11	0.940	1287.757	
MH 301	5+214.31	-7.548	1288.720	
MH 300	5+225.71	10.802	1289.034	

C	ISSUED FOR ADDENDUM 2	16/09/01
B	ISSUED FOR TENDER	16/08/15
A	ISSUED FOR 100% REVIEW	16/08/05

Revision/ Révision	Description/Description	Date/Date
Client/client		
	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Approved by/Approuve par APPROVED BY
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PWGSC Project Manager/Administrateur de Projets TP5GC M. BURKE
PWGSC Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TP5GC AERM BY
Client/client J. LAMBE
Drawing title/Titre du dessin NEW UTILITY DATA