



Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

## REAL PROPERTY SERVICES

Western Region

## SERVICES IMMOBILIERS

Région de l'ouest

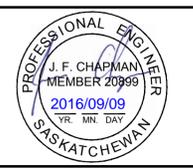
# NEW DRIVER TRAINING TRACK

## 4X4 COURSE

### Track #4

## Regina Saskatchewan

PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



Association of Professional Engineers & Geoscientists of Saskatchewan  
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Morrison Herold Limited  
Number C0019  
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Discipline: CIVIL, 20899, Signature: JFC

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
4X4 COURSE**

Approved by/Approuvé par  
JFC  
Designed by/Concept par  
TST  
Drawn by/Dessiné par  
TST  
PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**TRACK ALIGNMENT**

Project No./No. du projet: 3104102  
Sheet/Feuille: ALGN-01  
Revision no./La Révision no.: 2.0  
02 OF 29





**LEGEND**

- - - - - 0.50m CONTOUR - MAJOR
- - - - - 0.50m CONTOUR - MINOR



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4X4 COURSE**

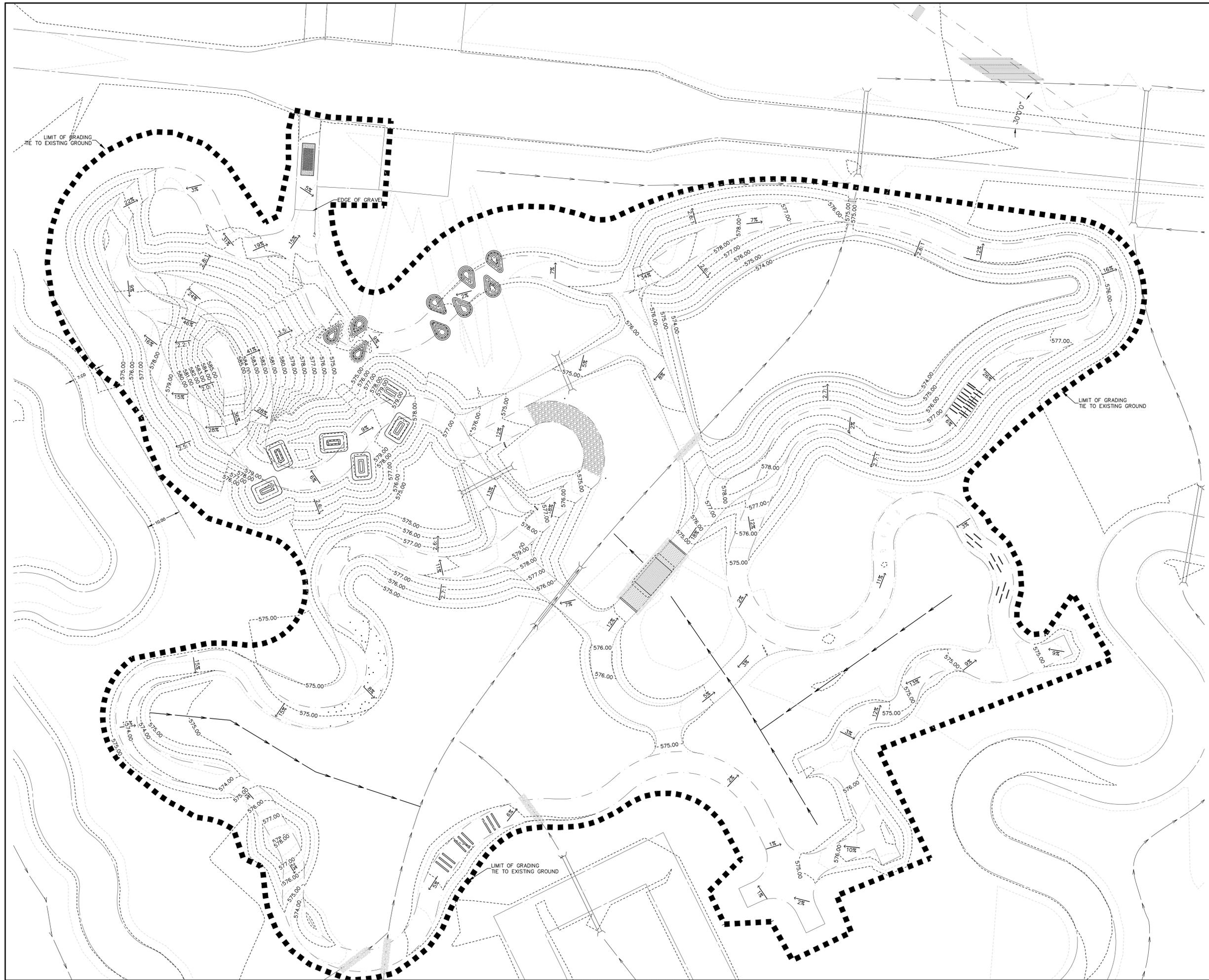
Approved by/Approuvé par: **JFC**  
Designed by/Concepté par: **TST**  
Drawn by/Dessiné par: **TST**

PWGSC Project Manager/Administrateur de Projets TPSGC  
**LIONEL OATWAY**  
PWGSC, Architectural and Engineering Resources Manager /  
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin  
**TRACK GRADING PLAN**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>SURF-02</b> 04 OF 29	Revision no./ La Révision no. <b>2.0</b>
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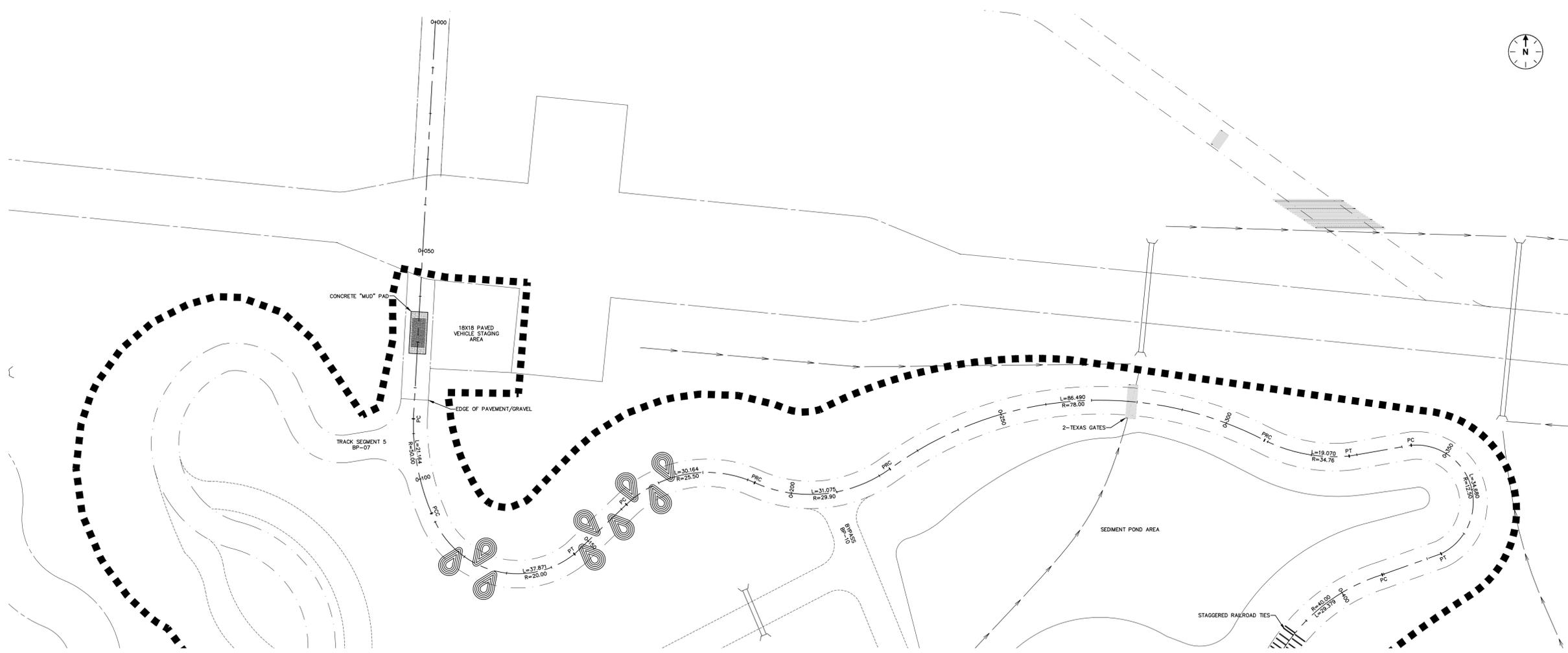
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**PWGS**  
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Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

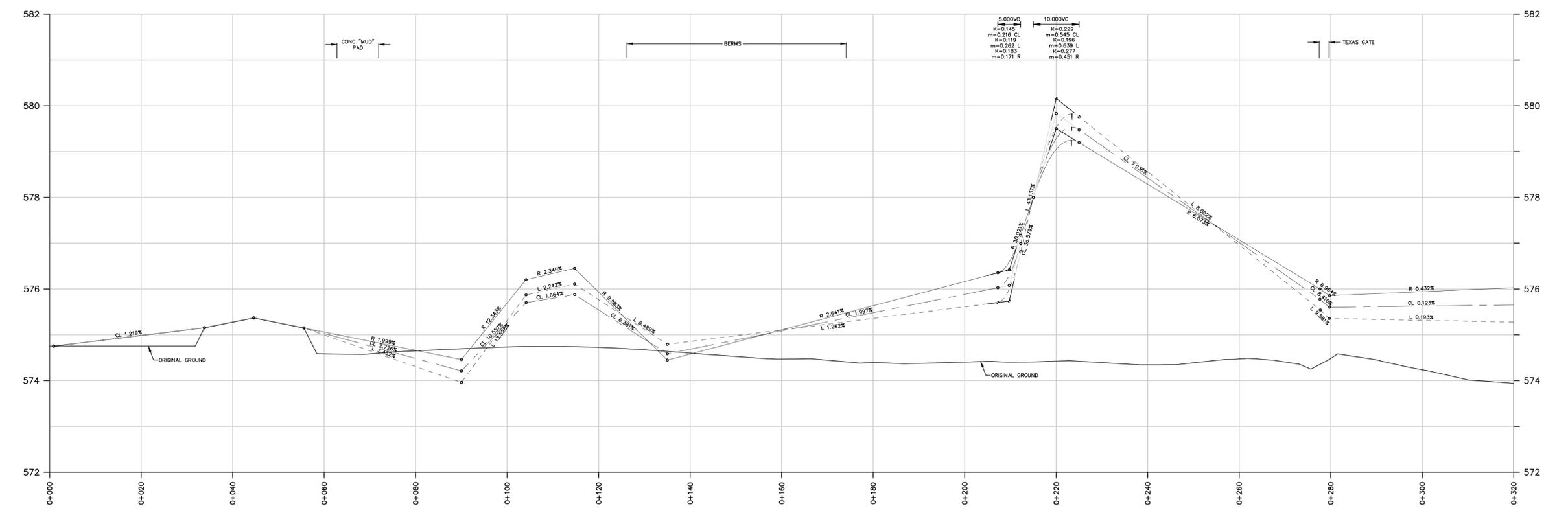
Approved by/Approve par  
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Designed by/Concept par  
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Drawn by/Dessine par  
TST  
PWGS Project Manager/Administrateur de Projets TPWSC  
LIONEL OATWAY  
PWGS, Architectural and Engineering Resources Manager/  
Resources Architectural et de Directeur d'Ingénierie, TPWSC

Client/client  
Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 1 STA 0+000 TO STA 0+320**

Project No./No. du projet 3104102	Sheet/Feuille BP-01 05 OF 29	Revision no./ La Révision no. 2.0
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- 0+000.000 PM  
CL 574.250  
L 574.250  
R 574.250
- 0+033.818 TIE  
CL 575.152  
L 575.152  
R 575.152
- 0+055.572 TIE  
CL 575.147  
L 575.147  
R 575.147
- 0+064.720 PC  
CL 575.250 TIE R  
0+064.720 PM  
0+064.720 PRC  
L 575.159  
0+064.720 TIE R  
0+064.720 R  
L 574.497
- 0+104.131 PM  
CL 575.791  
R 576.200  
0+107.834 PCC  
CL 575.764  
0+114.238 PM  
CL 576.107  
L 576.107  
R 576.450
- 0+135.000 PM  
CL 574.394  
L 574.391  
R 574.446
- 0+145.800 PT  
CL 574.620
- 0+191.465 PC  
CL 575.114
- 0+191.660 PRC  
CL 575.716
- 0+206.300 INT R  
CL 576.742 PM  
0+206.300 PRC  
L 576.527  
R 576.450  
0+206.300 INT L  
R 577.884
- 0+220.000 PM  
CL 576.829  
R 576.800  
0+222.735 PRC  
CL 576.318 HP  
R 575.247  
CL 575.534  
L 575.822
- 0+277.627 PM  
CL 575.740  
L 575.740  
0+279.960 PM  
CL 575.351  
L 575.351  
R 575.854
- 0+309.225 PRC  
CL 575.638



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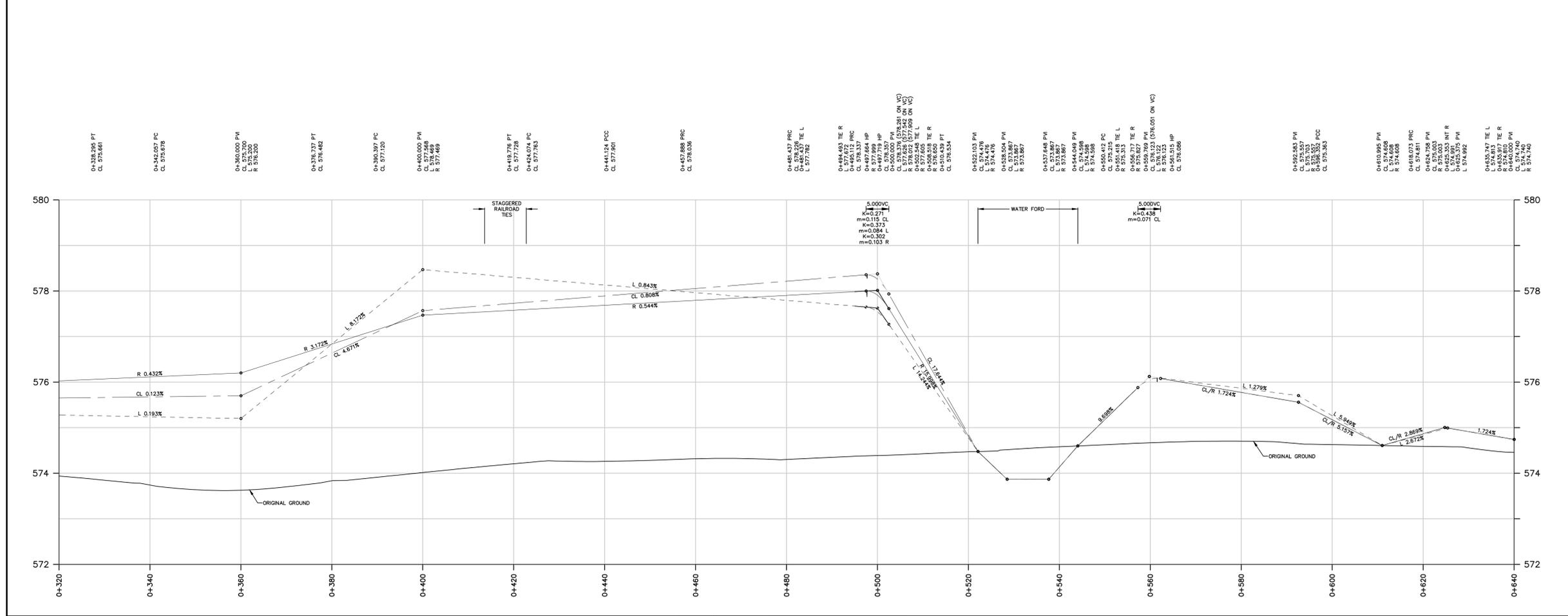
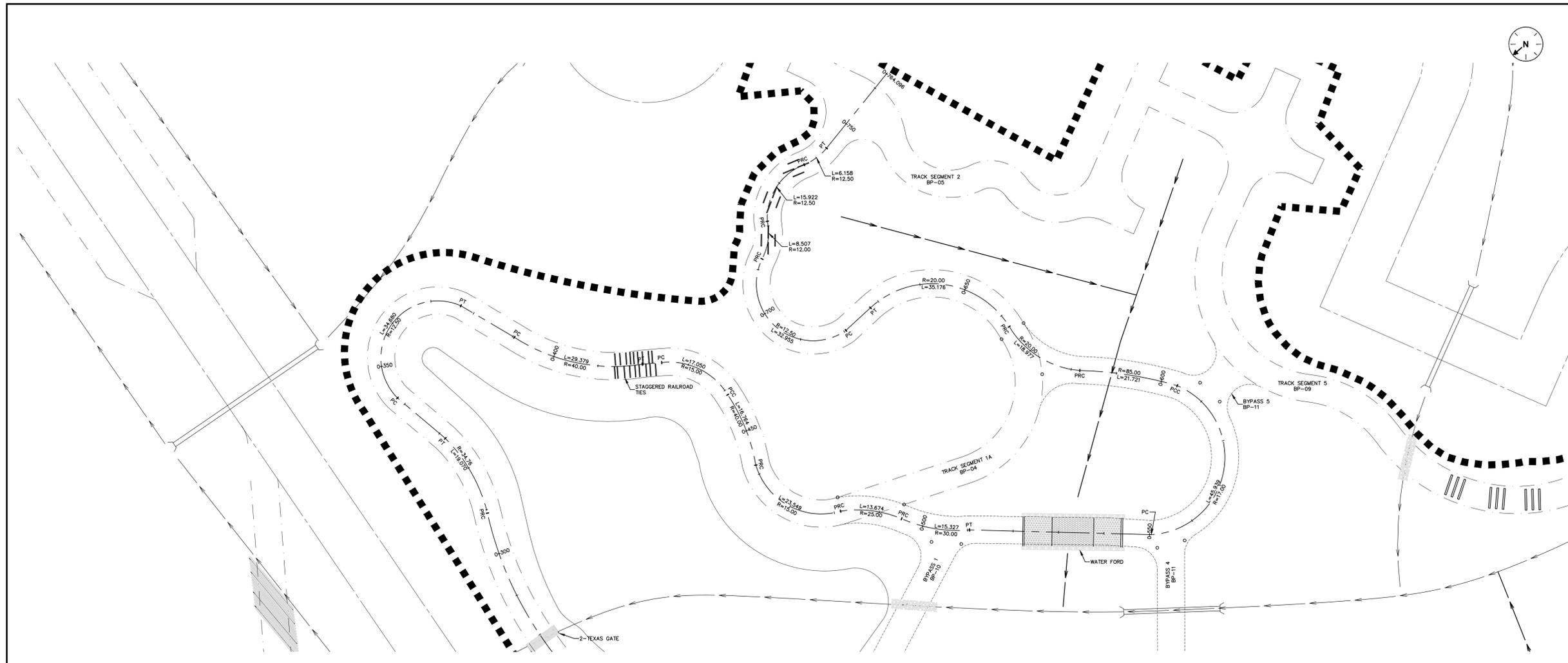
Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

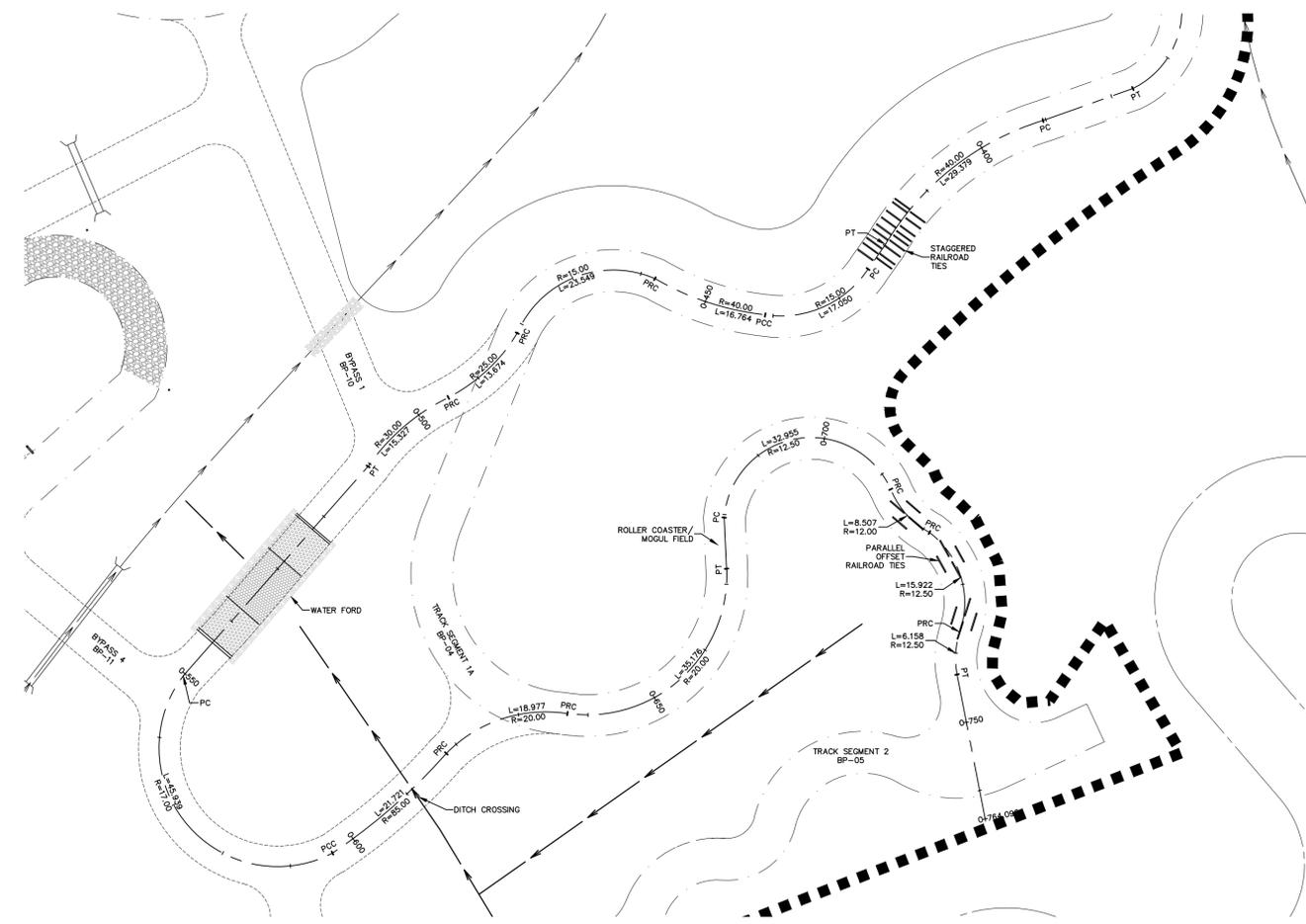
Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approuvé par  
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TST  
Drawn by/Dessiné par  
TST  
PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 1 STA 0+320 TO STA 0+640**

Project No./No. du projet 3104102	Sheet/Feuille BP-02 06 OF 29	Revision no./ La Révision no. 2.0
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Revision/	Description/Description	Date/Date
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Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

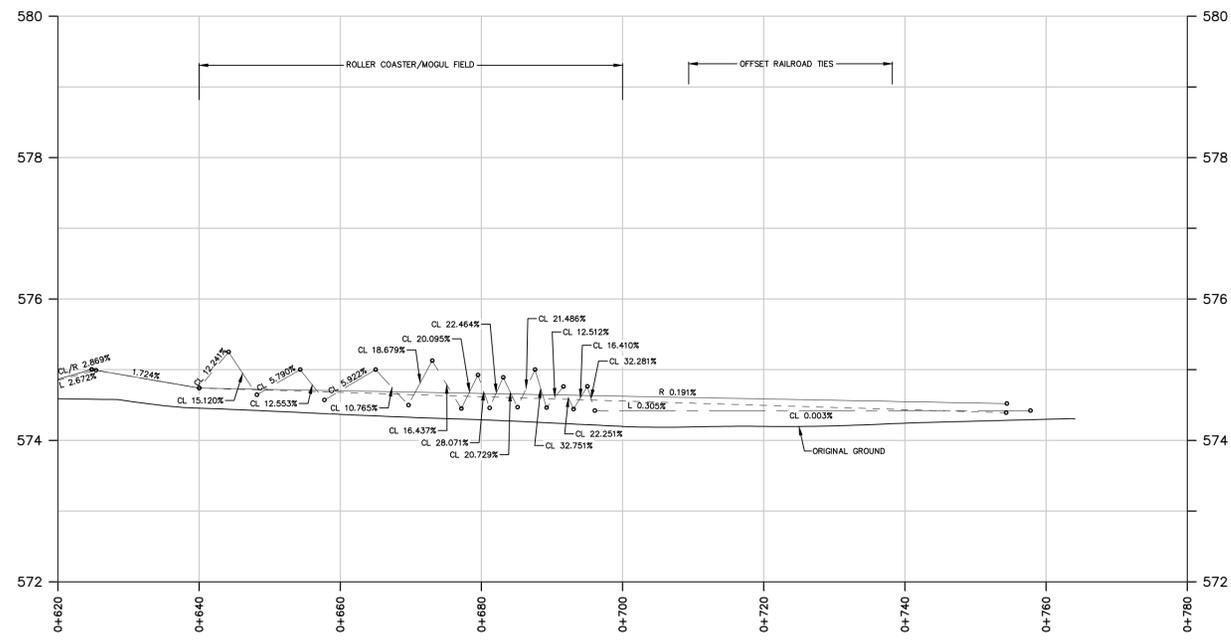
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Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 1 STA 0+620 TO STA 0+780**

Project No./No. du projet  
3104102

Sheet/Feuille  
BP-03  
07 OF 29

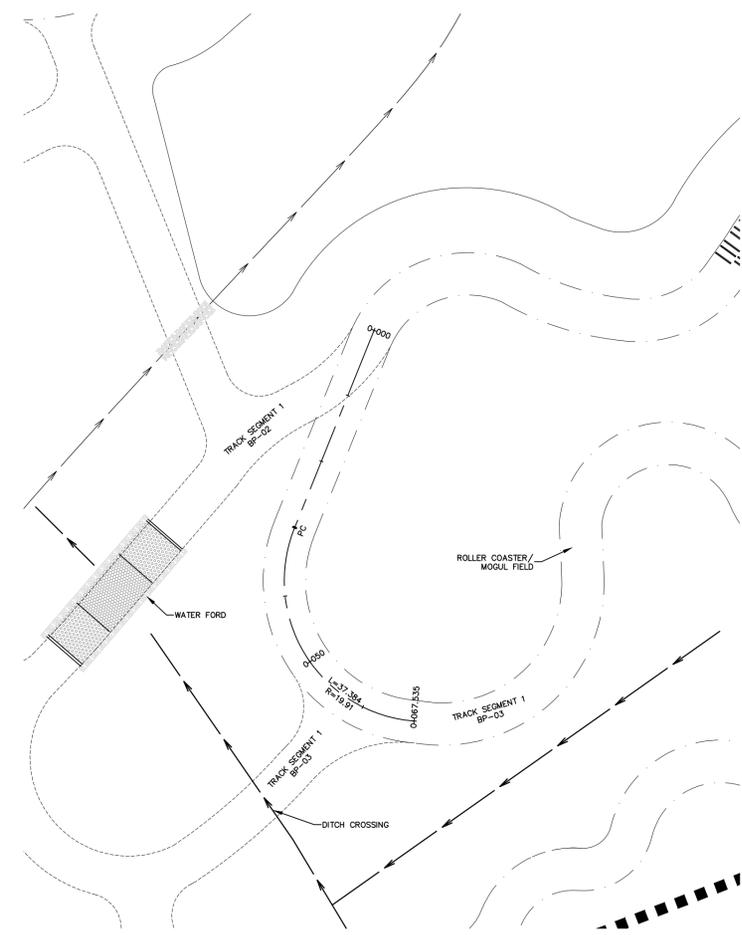
Revision no./  
La Révision  
no. 2.0

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R 574.746  
L 574.992
- 0+640.000 PM  
CL 574.740  
R 574.746  
L 574.250
- 0+654.320 PM  
CL 575.000  
R 575.000  
L 574.570
- 0+665.000 PM  
CL 574.499  
R 574.979  
L 574.022
- 0+672.000 PM  
CL 574.979  
R 574.979  
L 574.979
- 0+677.147 PM  
CL 574.925  
R 574.925  
L 574.925
- 0+681.159 PM  
CL 574.915  
R 574.915  
L 574.915
- 0+683.076 PM  
CL 574.899  
R 574.469  
L 574.469
- 0+692.222 PM  
CL 574.469  
R 574.469  
L 574.469
- 0+693.000 PM  
CL 574.442  
R 574.763  
L 574.422
- 0+712.503 PRC  
CL 574.421
- 0+721.011 PRC  
CL 574.421
- 0+736.933 PRC  
CL 574.421
- 0+743.091 PT  
CL 574.421
- 0+744.331 TIE R  
0+744.424 TIE R  
0+744.517 TIE R  
0+744.591 CL TIE  
0+744.420





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0+000.000 PVI  
R 0.771782  
L 0.001397 PVI/TE L  
L 577.782

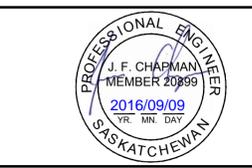
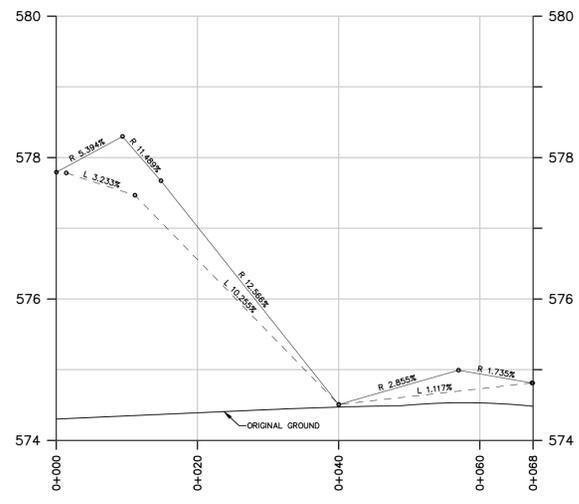
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R 0.782297 PVI  
L 577.487  
0+014.814 PVI/TE L  
R 577.672

0+020.151 FC  
L 575.517

0+040.000 PVI  
L 574.507  
R 574.507

0+056.981 PVI/NT L  
R 574.992

0+087.375 TE L  
L 574.813  
R 574.810



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Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approuvé par  
JFC  
Designed by/Concept par  
TST  
Drawn by/Dessiné par  
TST

PWGC Project Manager/Administrateur de Projets TP5GC  
LIONEL OATWAY  
PWGC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TP5GC

Client/client

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**PLAN & PROFILE  
SEGMENT 1A**

Project No./No. du projet  
3104102  
Sheet/Feuille  
BP-04  
Revision no./La Révision no.  
2.0

08 OF 29





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Revision/	Description/Description	Date/Date
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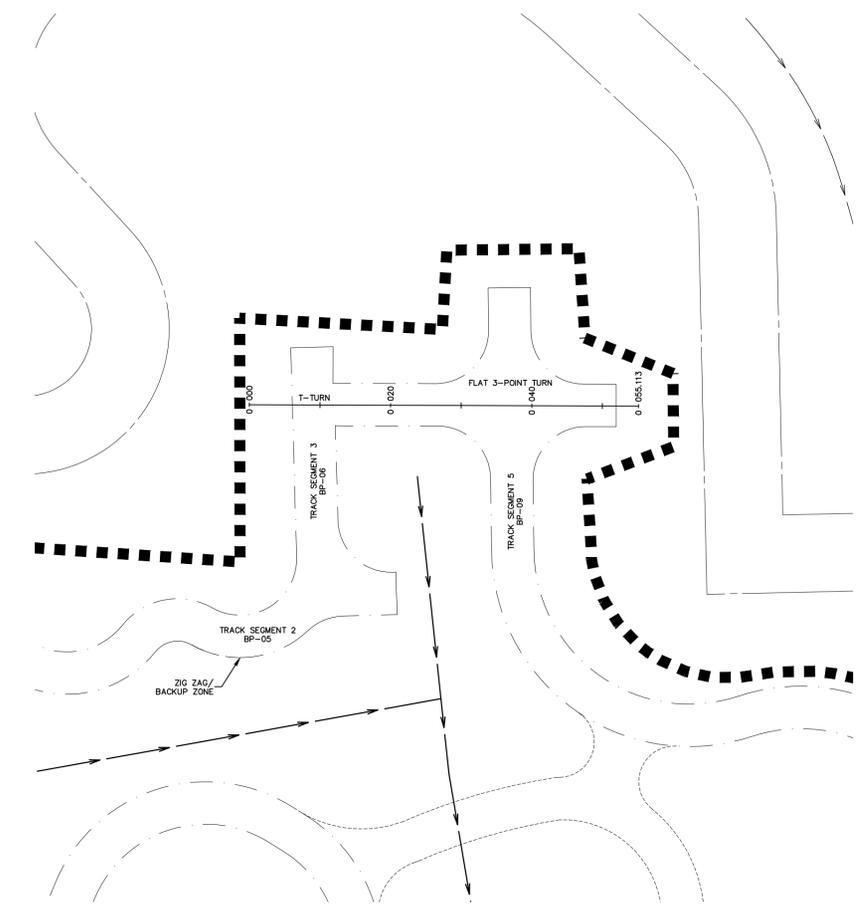
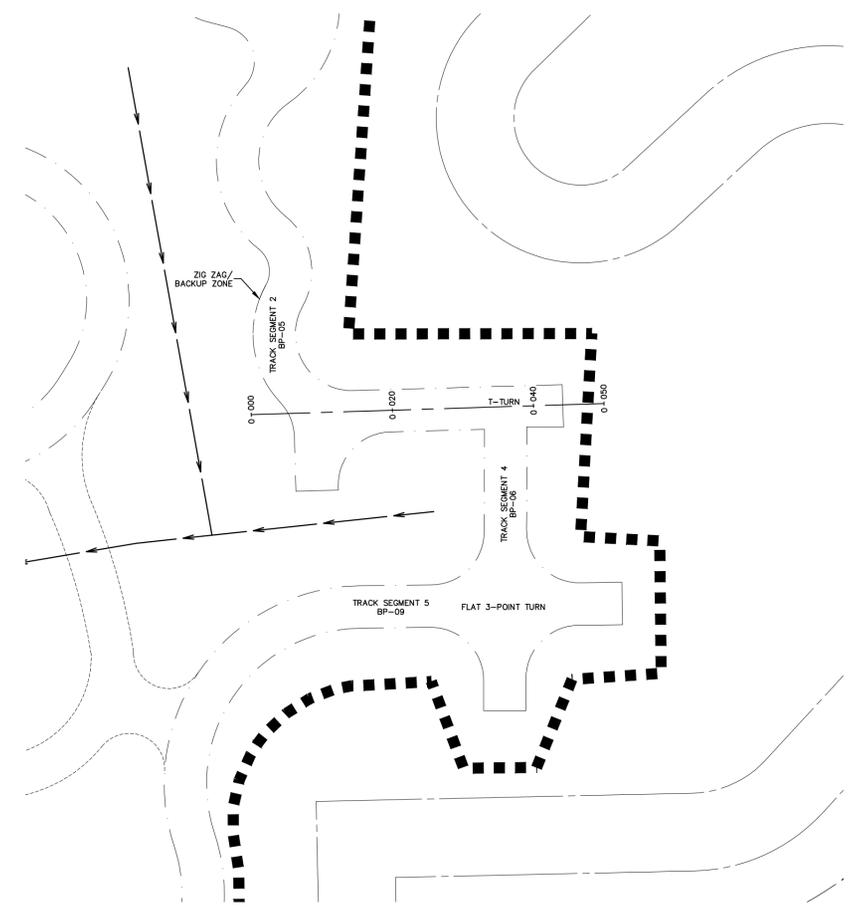
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1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

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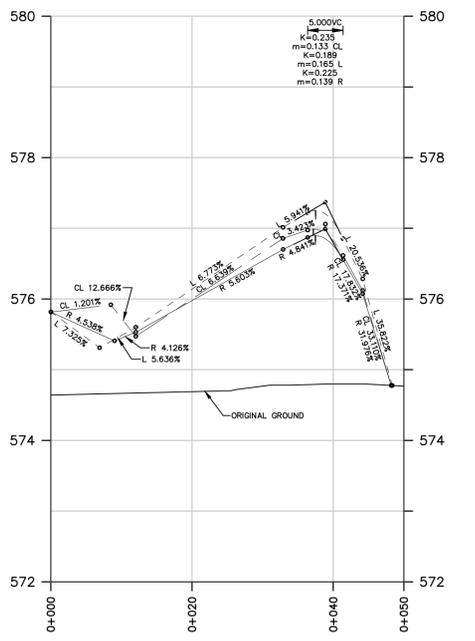
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Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 3 & 4**

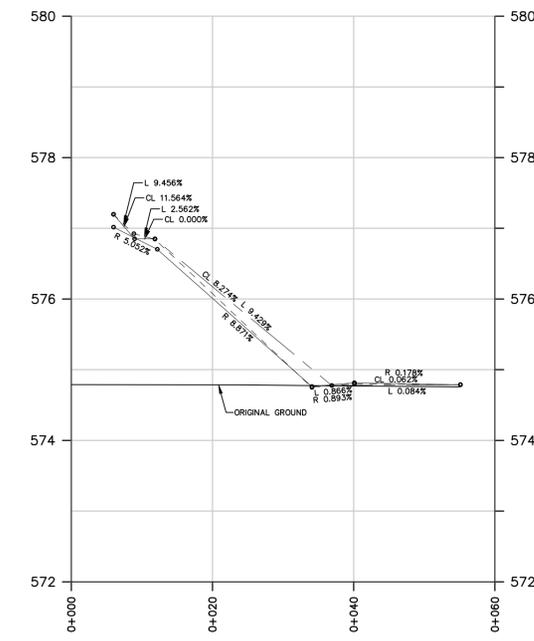
Project No./No. du projet 3104102	Sheet/Feuille BP-06 10 OF 29	Revision no./ La Révision no. 2.0
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R 576.816  
L 576.816  
0+000.492 PM  
L 575.311  
0+000.818 PM  
R 575.407  
R 575.407  
0+001.204 PM  
L 575.569  
R 575.531  
0+002.872 PM  
L 576.025  
L 577.002  
R 576.151  
CL 576.690  
R 576.896  
0+003.498 PM  
D+003.888 PM  
CL 577.088 (576.928 ON VC)  
L 576.385  
R 576.890 (576.851 ON VC)  
0+044.162 PM  
L 574.452  
R 574.477  
0+048.217 PM  
R 574.777



0+005.968 PM  
CL 577.197  
R 577.077  
0+006.863 PM  
D+006.967 PM  
0+011.827 PM  
CL 576.850  
R 576.703  
0+033.072 TE L  
L 574.758  
0+034.078 PM  
D+034.077 TE L  
R 574.893  
CL 574.776  
0+040.081 PM/TE R  
L 574.814  
R 574.814  
0+055.113 PM  
CL 574.797  
R 574.787



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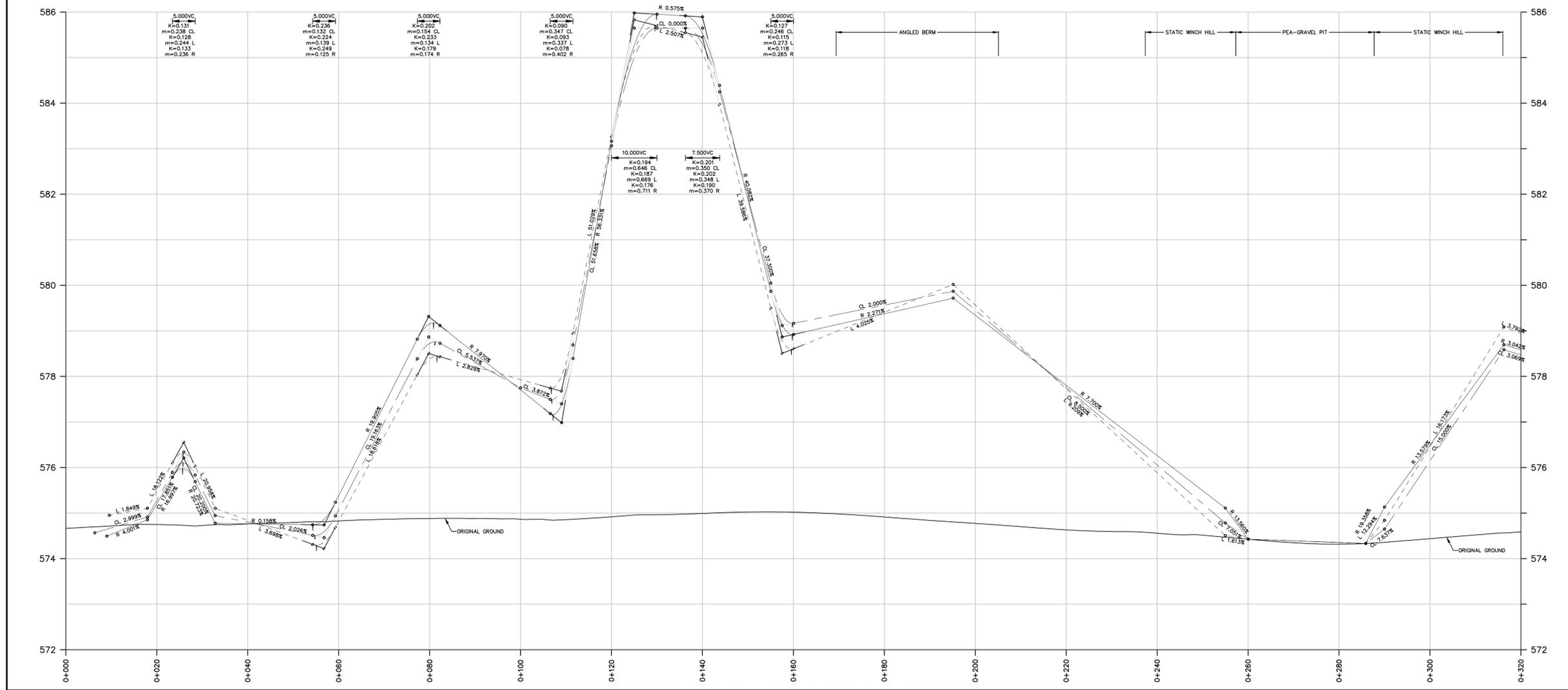
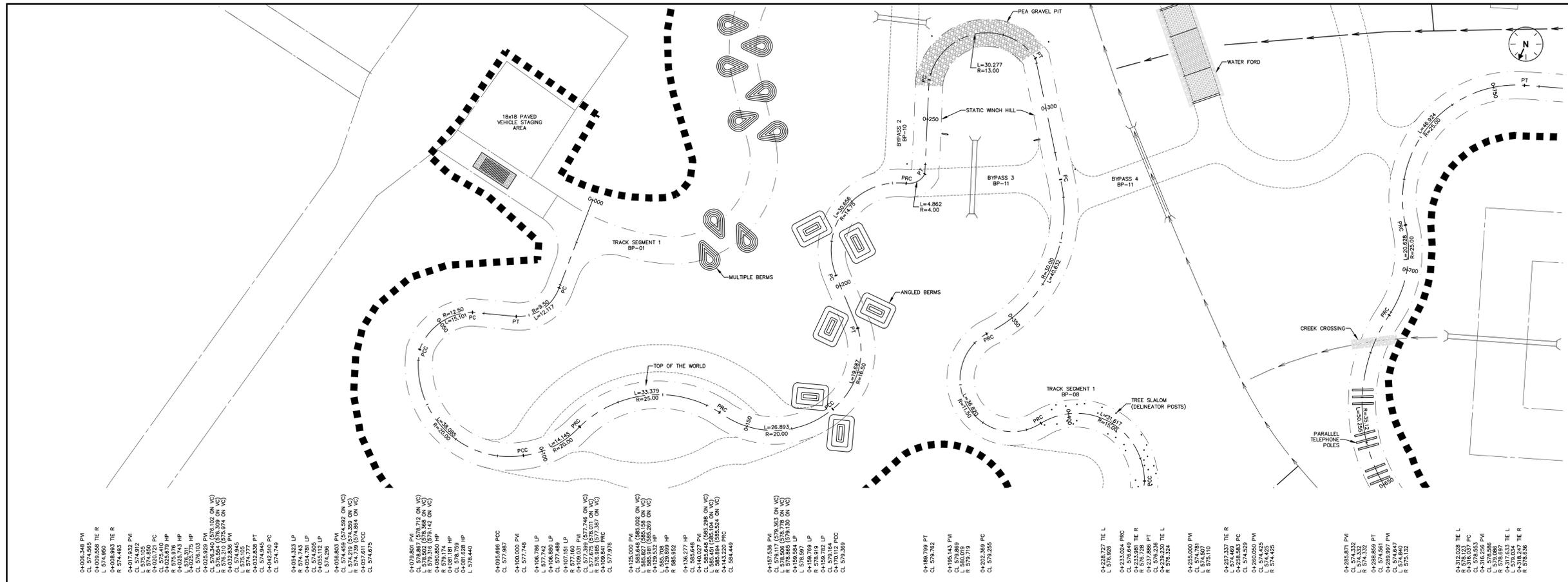
**NEW DRIVER TRAINING TRACK  
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TST  
PWGC Project Manager/Administrateur de Projets TPSC  
LIONEL OATWAY

PWGC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSC

Client/client  
Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 5 STA 0+000 TO 0+320**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>BP-07</b> 11 OF 29	Revision no./ La Révision no. <b>2.0</b>
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1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08
2	ISSUED FOR TENDER	2016-09-09

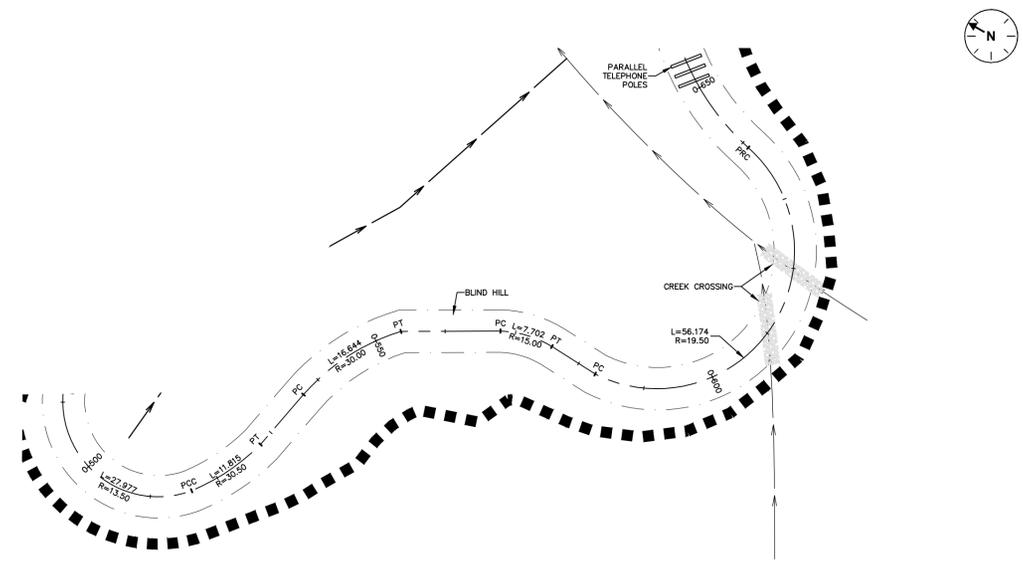
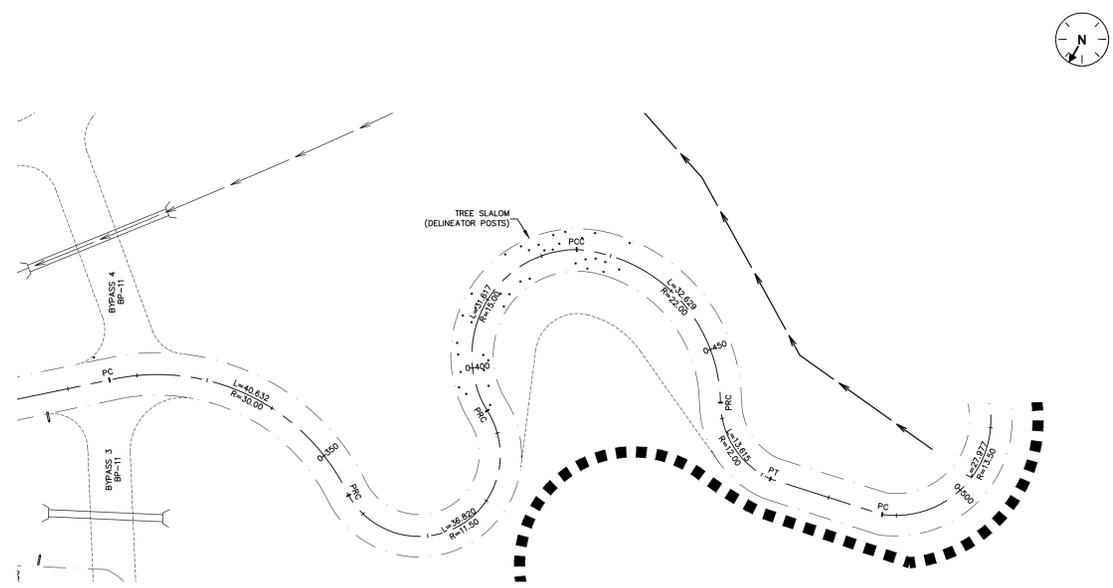
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**NEW DRIVER TRAINING TRACK  
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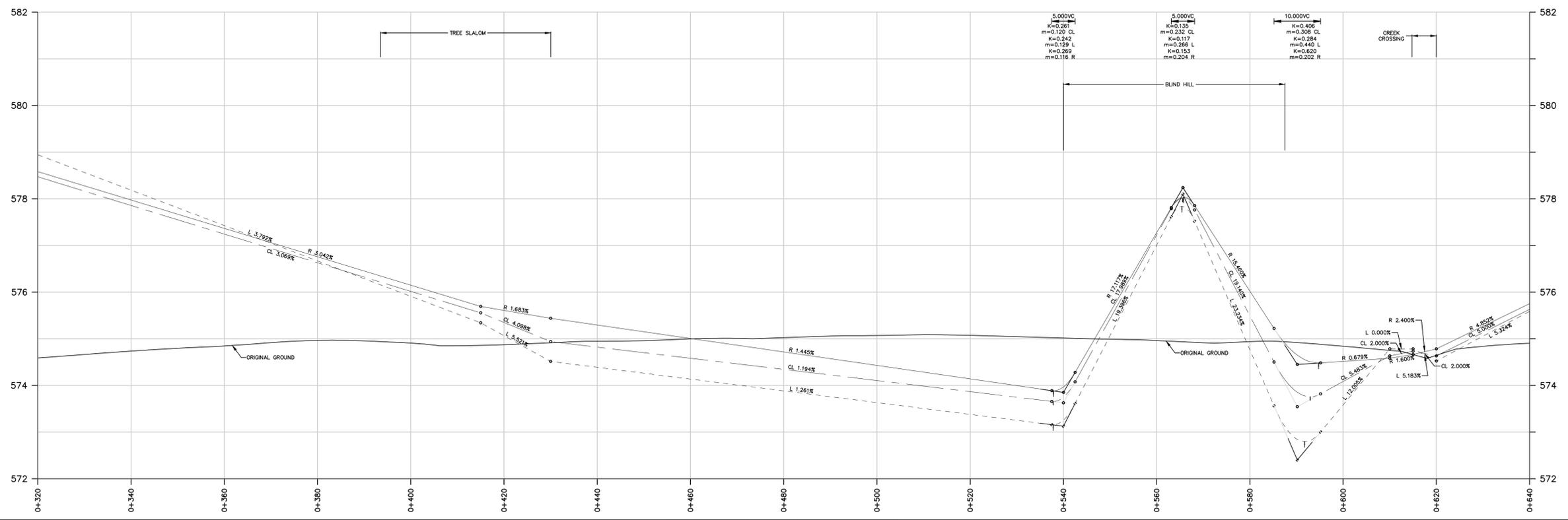
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**PLAN & PROFILE  
SEGMENT 5 STA 0+320 TO STA 0+640**

Project No./No. du projet 3104102	Sheet/Feuille BP-08 12 OF 29	Revision no./ La Révision no. 2.0
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- 0+323.296 Tie R  
L 576.820
- 0+326.669 PRC  
CL 577.346
- 0+331.469 PRC  
CL 576.216
- 0+415.000 PV  
L 573.332  
R 575.693
- 0+425.106 PCC  
CL 575.141
- 0+435.516 PV  
CL 574.240  
L 574.534  
R 575.144
- 0+437.735 PRC  
CL 574.659
- 0+471.350 PT  
CL 574.447
- 0+487.771 PC  
CL 574.248
- 0+415.548 PCC  
CL 573.814
- 0+427.783 PT  
CL 573.773
- 0+437.887 PC  
CL 573.867
- 0+437.800 LP  
CL 573.811
- 0+437.811 LP  
CL 573.658
- 0+437.884 LP  
CL 573.884
- 0+440.000 PV  
CL 573.677 (573.747 ON VC)  
R 573.851 (573.867 ON VC)
- 0+453.730 PT  
CL 576.077
- 0+465.416 HP  
L 577.636
- 0+465.564 HP  
CL 576.544
- 0+465.541 PV  
CL 576.201 (576.208 ON VC)  
R 576.440 (576.038 ON VC)
- 0+467.824 HP  
L 578.037
- 0+467.824 PC  
CL 576.526
- 0+475.526 PT  
CL 576.348
- 0+482.790 PC  
CL 574.957
- 0+500.169 PV  
CL 573.544 (573.853 ON VC)  
R 574.449 (574.649 ON VC)
- 0+501.782 LP  
CL 574.732
- 0+502.842 LP  
CL 573.758
- 0+502.842 LP  
R 574.480
- 0+610.000 PV  
CL 574.832  
R 574.306
- 0+610.000 PV  
CL 574.732  
R 574.652
- 0+610.000 PV  
L 574.523  
R 574.762
- 0+638.885 PRC  
CL 575.581



PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Herold Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, 20899, Signature: [Signature]

Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

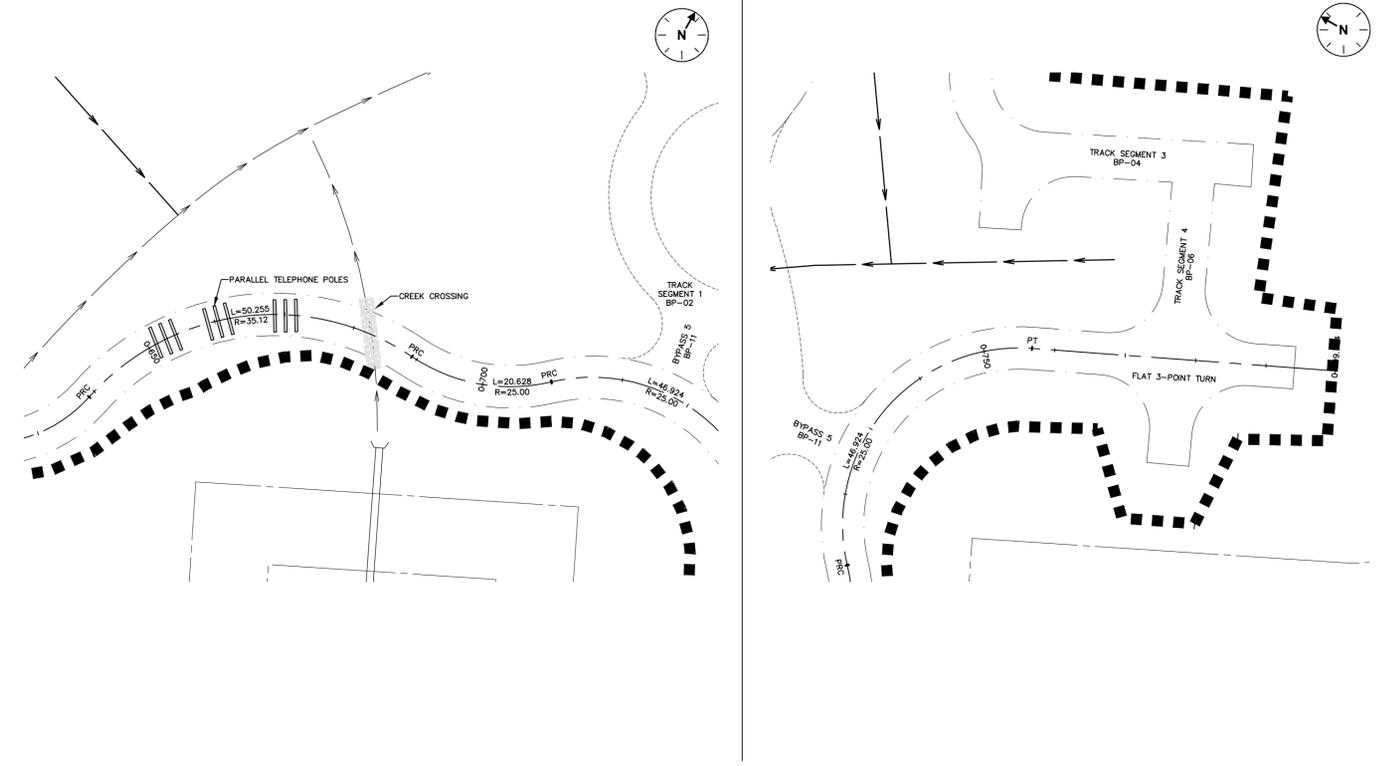
PWGSC Project Manager/Administrateur de Projets TPSC  
LIONEL OATWAY

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSC

Client/client

Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 5 STA 0+640 TO STA 0+800**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>BP-09</b> 13 OF 29	Revision no./La Révision no. <b>2.0</b>
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0+653.676 PVI  
CL 576.316  
R 576.416  
L 576.416

0+680.003 PVI  
CL 574.820  
R 575.050  
L 575.050

0+689.220 PRC  
CL 574.922

0+709.848 PRC  
CL 574.888

0+723.391 TIE R  
L 574.782

0+726.765 TIE L  
L 574.780

0+756.772 PT  
CL 574.810

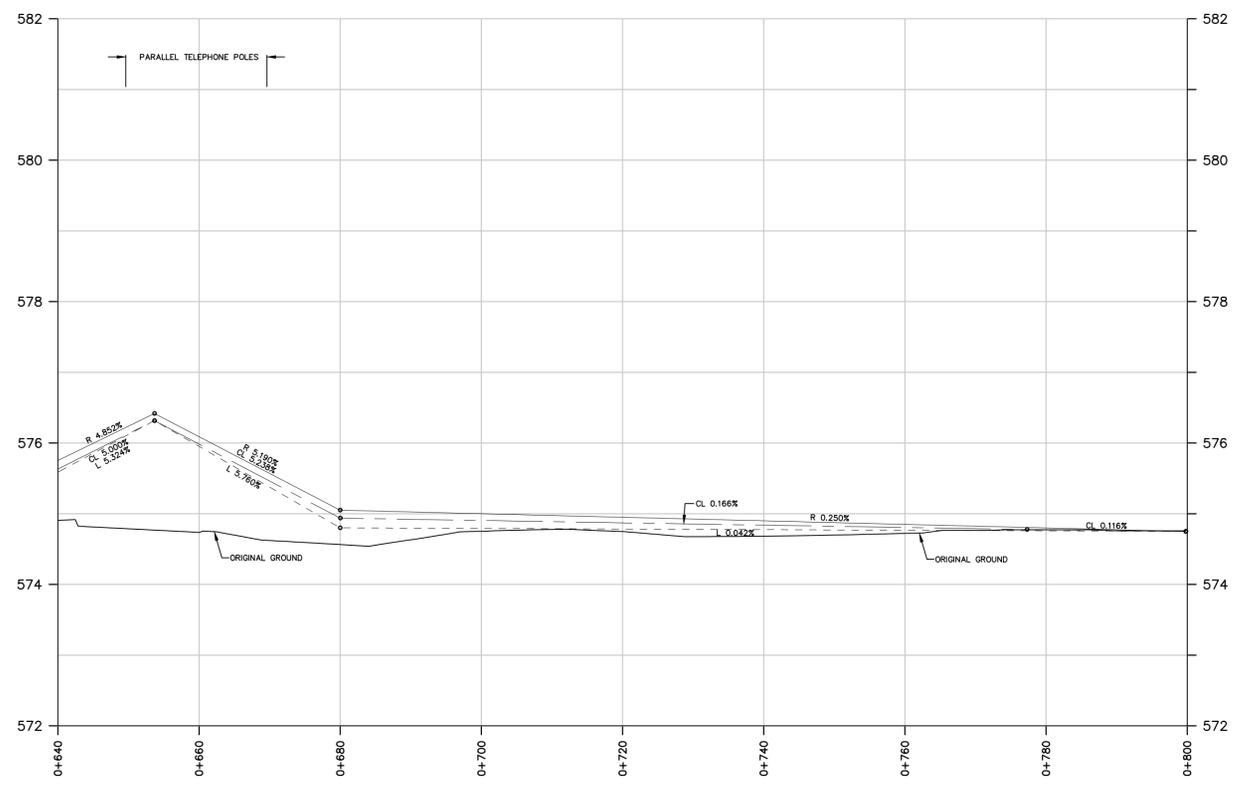
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R 574.804  
L 574.804

0+774.461 TIE R  
L 574.804

0+777.203 PVI  
CL 574.778  
R 574.778  
L 574.778

0+784.899 TIE L  
L 574.788

0+799.784 PVI  
CL 574.750  
R 574.750  
L 574.750



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PCC - POINT OF COMPOUND CURVATURE  
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R - RIGHT EDGE OF TRACK  
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LP - LOW POINT



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Permission to Consult held by:  
Discipline: CIVIL, 20899, Signature: JFC

2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approuvé par  
JFC

Designed by/Concepté par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY

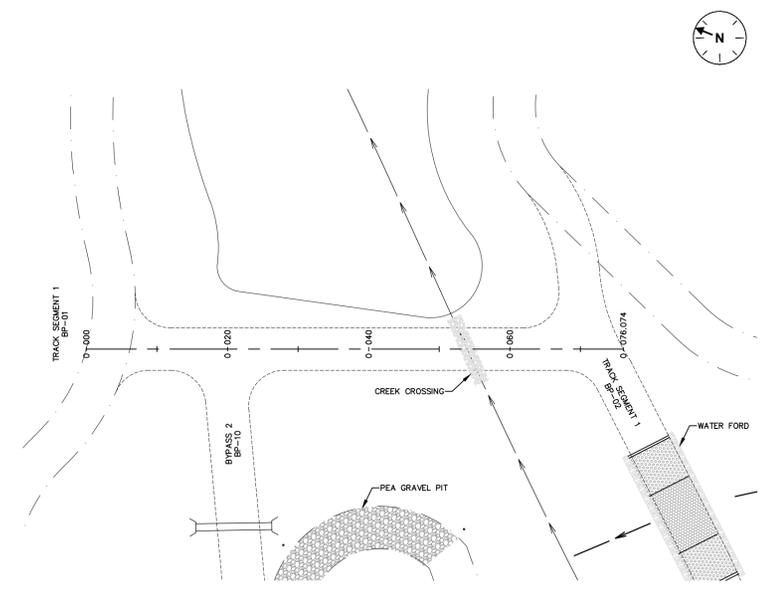
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**PLAN & PROFILE  
BYPASS AREA 1 & 2**

Project No./No. du projet  
3104102

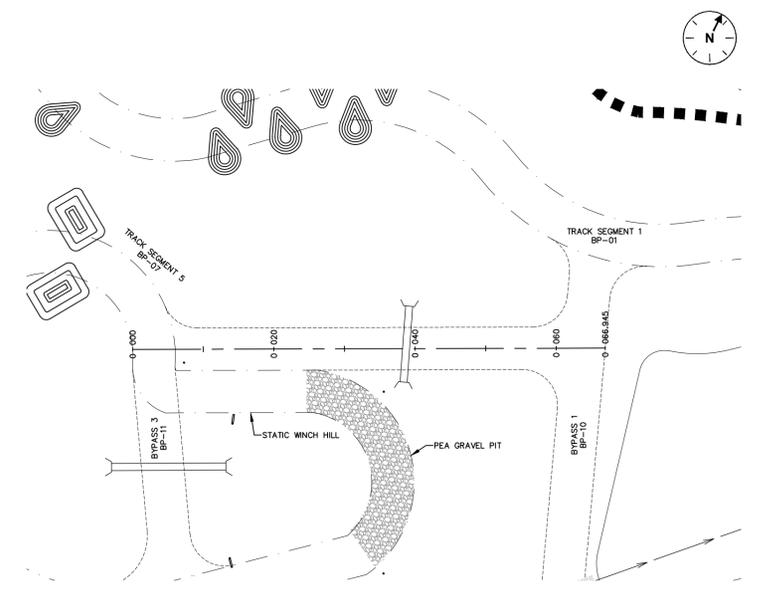
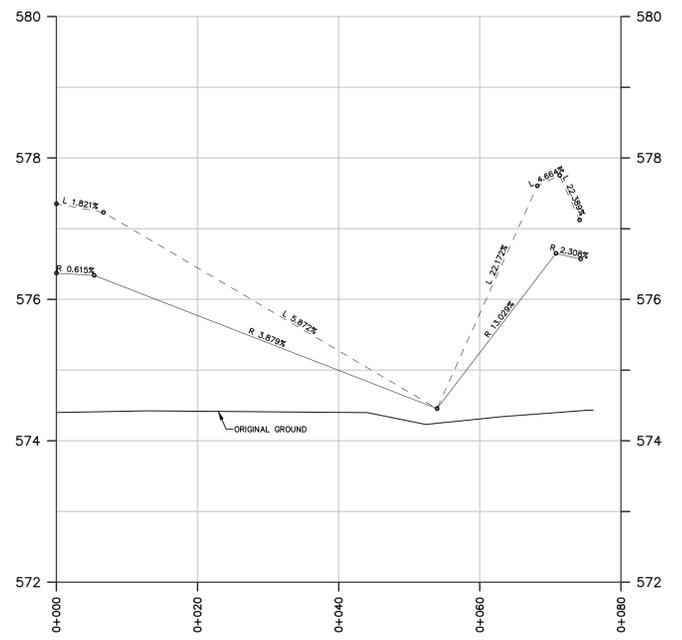
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**BP-10**  
14 OF 29

Revision no./  
La Révision  
no. **2.0**



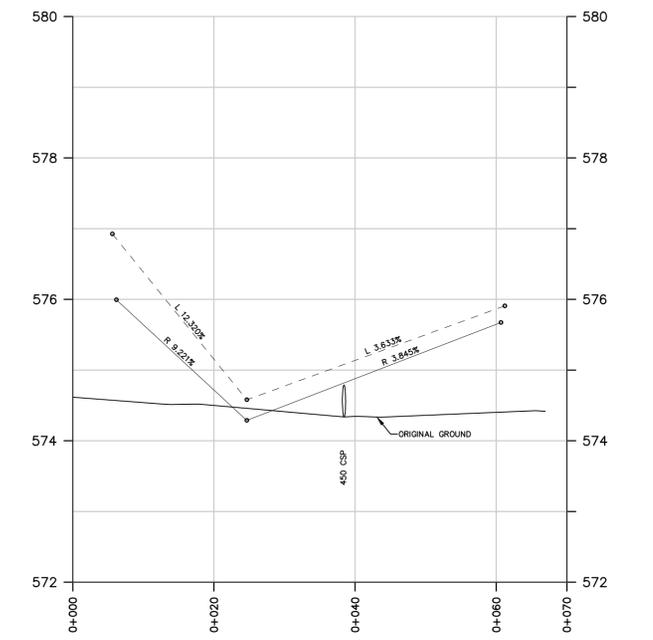
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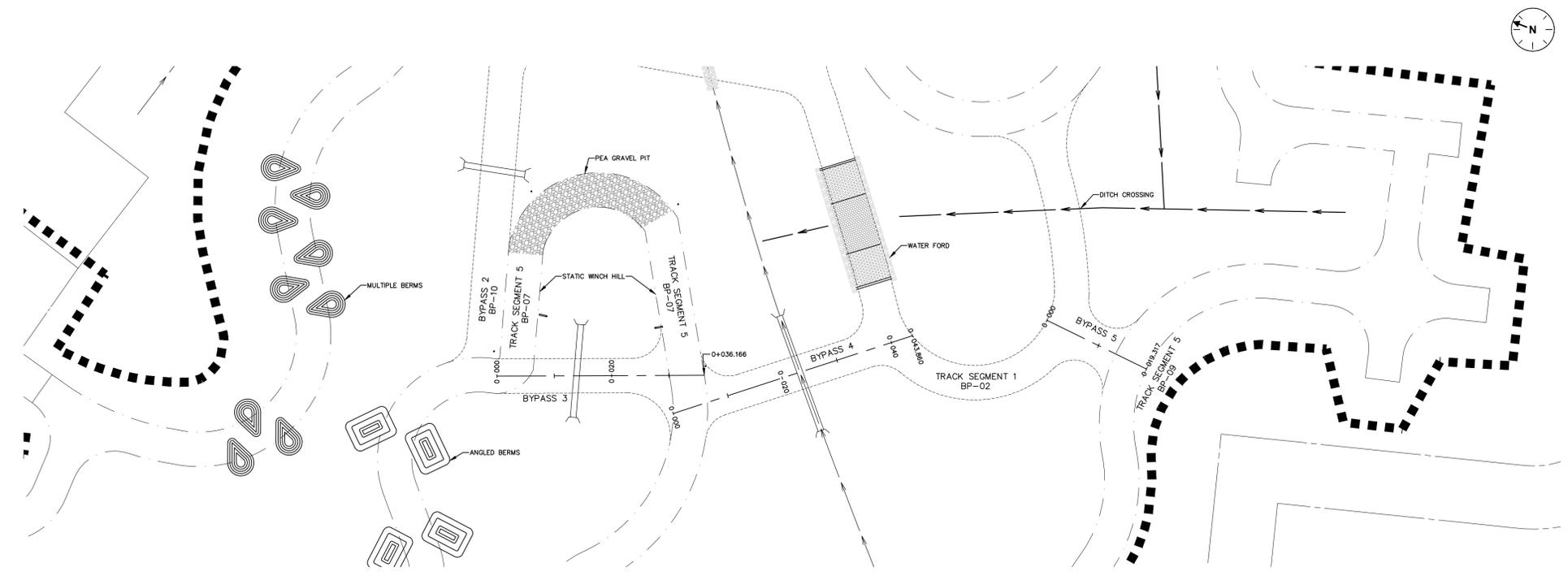
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L 577.530  
R 576.371  
0+005.368 TIE R  
L 577.530  
R 576.371  
0+006.974 TIE R  
L 577.220  
0+005.602 PVI  
L 574.455  
R 574.455  
0+068.141 PVI  
L 577.605  
0+070.782 TIE R  
L 574.455  
R 574.455  
0+071.313 TIE R  
L 577.733  
R 577.733  
0+071.312 PVI  
L 577.122  
R 576.969



BYPASS 2

0+005.602 TIE L  
L 576.926  
R 575.994  
0+024.652 PVI  
L 574.672  
R 574.672  
0+024.652 TIE L  
L 574.672  
R 574.672  
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R 575.673  
L 576.697  
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L 576.697



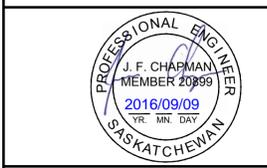
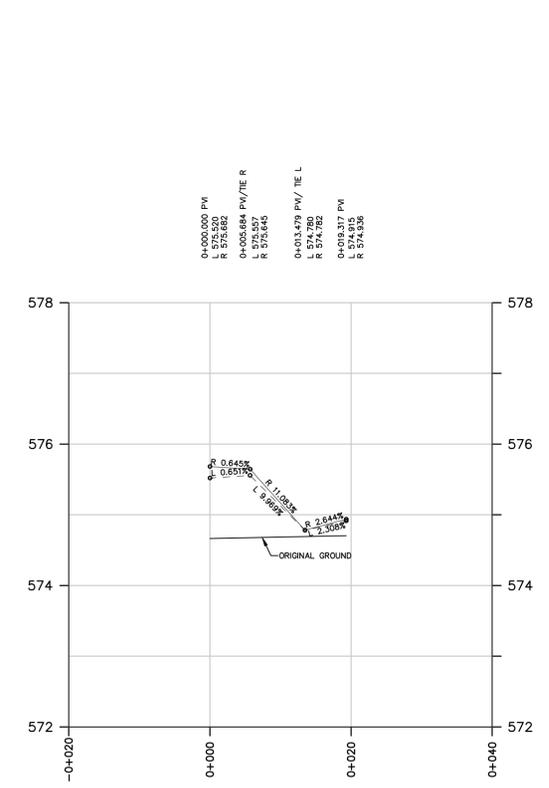
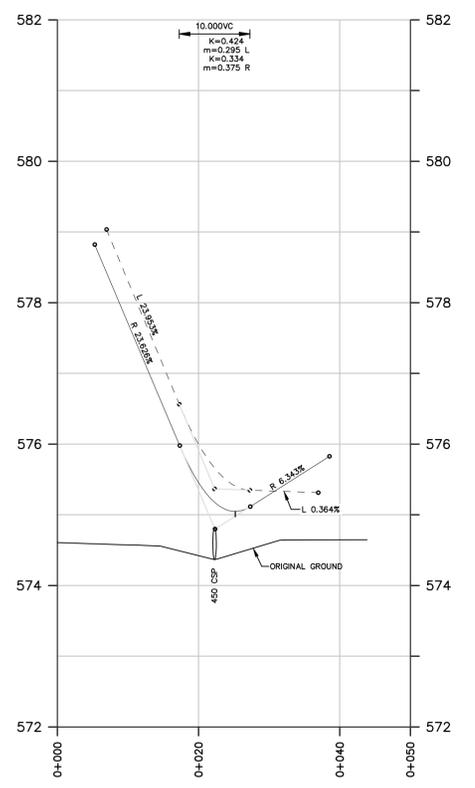
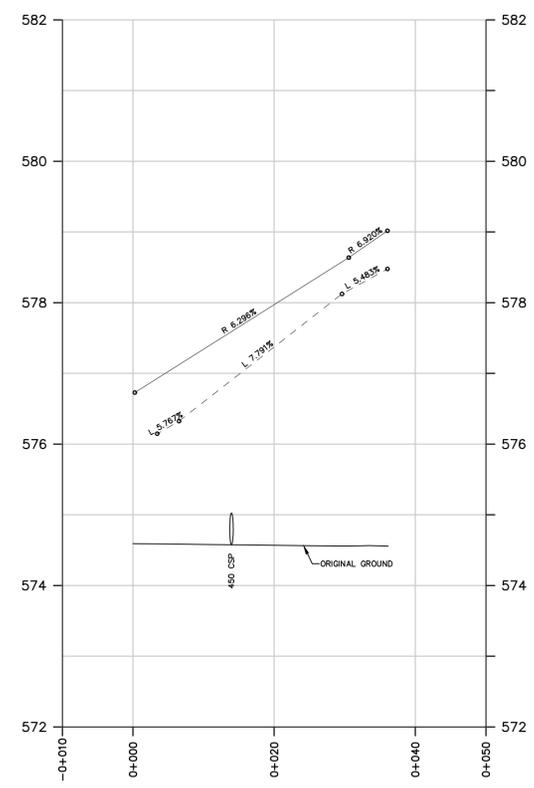


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PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT  
CSP - CORRUGATED STEEL PIPE

BYPASS 3  
0+050.248 TIE R  
R 576.728  
0+003.416 TIE R  
R 576.728  
0+000.000 PVI  
L 576.324  
0+020.609 PVI/TIE R  
L 576.123  
0+030.554 PVI/TIE R  
R 576.046  
0+030.000 PVI  
L 576.478  
R 576.016

BYPASS 4  
0+050.248 TIE L  
L 576.034  
0+006.954 TIE L  
L 576.034  
0+022.265 PVI  
L 576.366 (275.661 ON VC)  
L 576.012 (275.661 ON VC)  
0+025.001 LP  
R 576.048  
0+036.946 TIE R  
R 576.627  
0+038.340 TIE R  
R 576.627

BYPASS 5



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Morrison Herold Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, 20899, Signature: JFC

Revision/Revisão	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approve par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessine par  
TST

PWGSC Project Manager/Administrateur de Projets TPSC  
LIONEL OATWAY

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSC

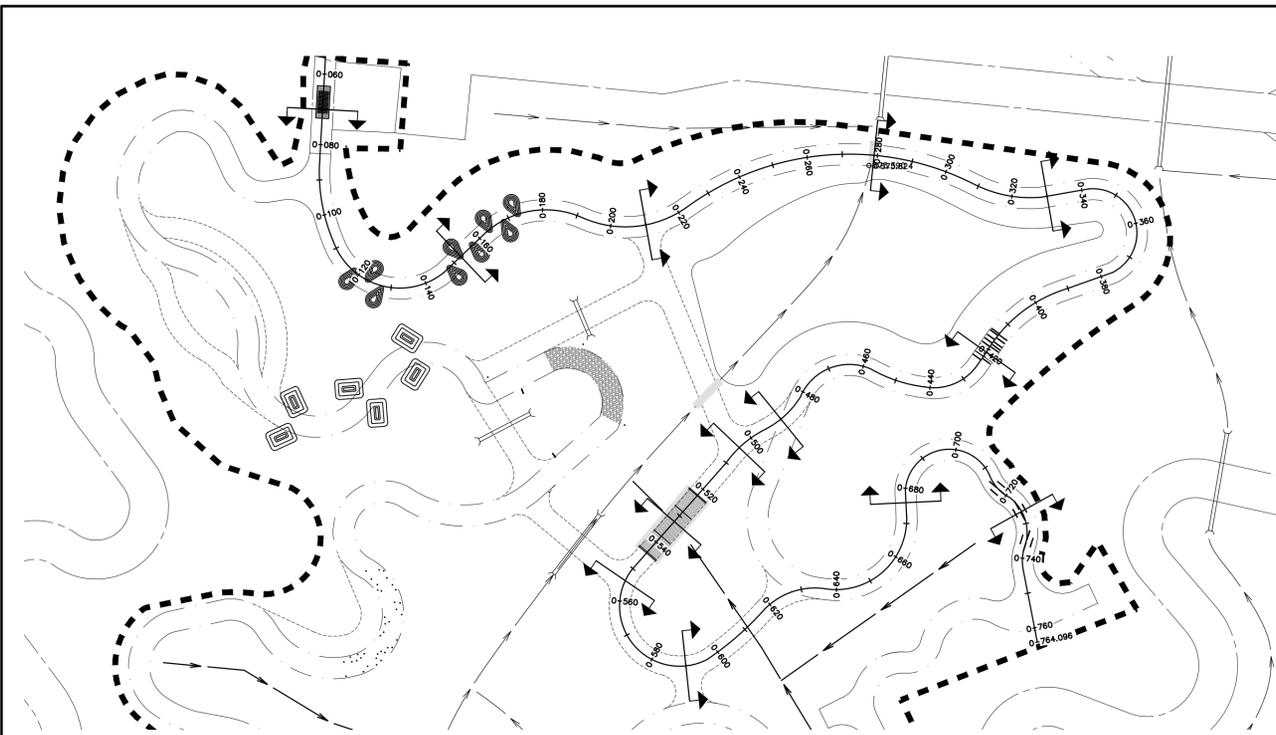
Client/client  
**PLAN & PROFILE  
BYPASS AREA 3, 4 & 5**

Project No./No. du projet  
3104102

Sheet/Feuille  
**BP-11**  
15 OF 29

Revision no./  
La Révision  
no.  
**2.0**





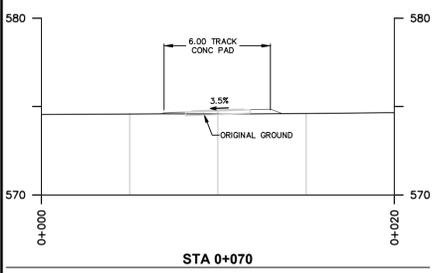
REFER TO CHAINAGE ON PLAN FOR LOCATION



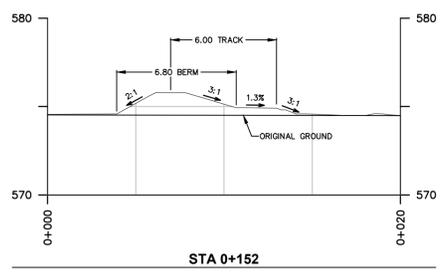
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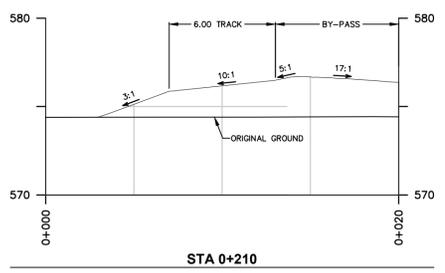
Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Hemphill Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, 20899, Signature: JFC



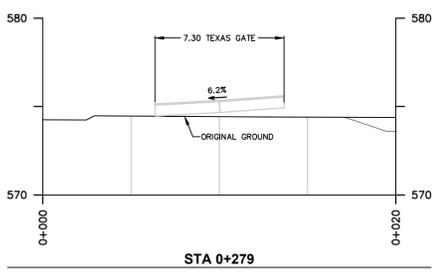
STA 0+070



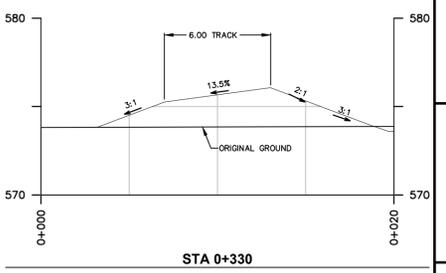
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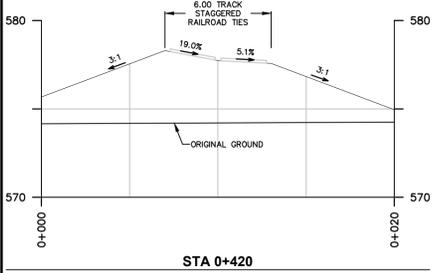
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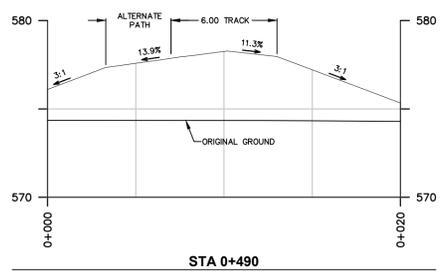
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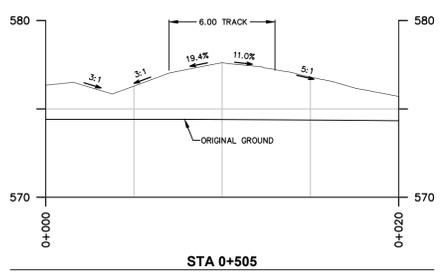
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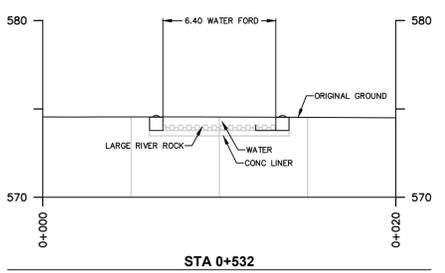
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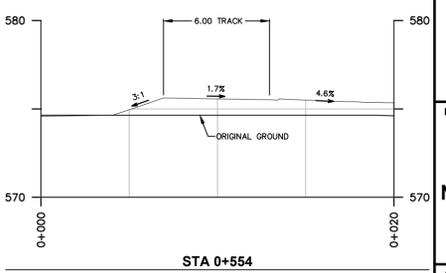
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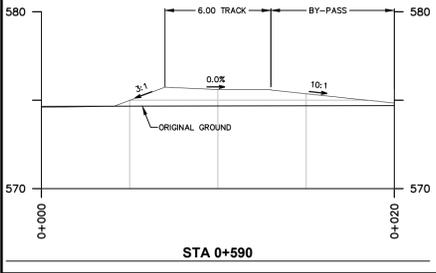
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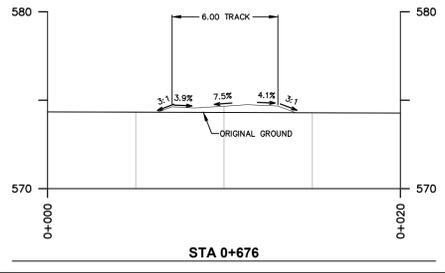
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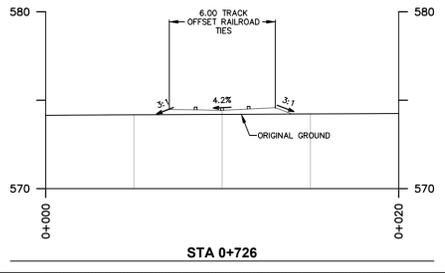
STA 0+554



STA 0+590



STA 0+676



STA 0+726

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
CROSS-SECTION**

Approved by/Approve par  
JFC  
Designed by/Concept par  
TST  
Drawn by/Dessine par  
TST  
PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**CROSS-SECTION  
SEGMENT 1**

Project No./No. du projet 3104102	Sheet/Feuille CS-01 16 OF 29	Revision no./La Révision no. 2.0
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REFER TO CHAINAGE ON PLAN FOR LOCATION



Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
Morrison Herdfield Limited  
Number: C0019  
Permission to Consult held by:  
Discipline: CIVIL, SA Reg. No. 20899, Signature: JFC

2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08

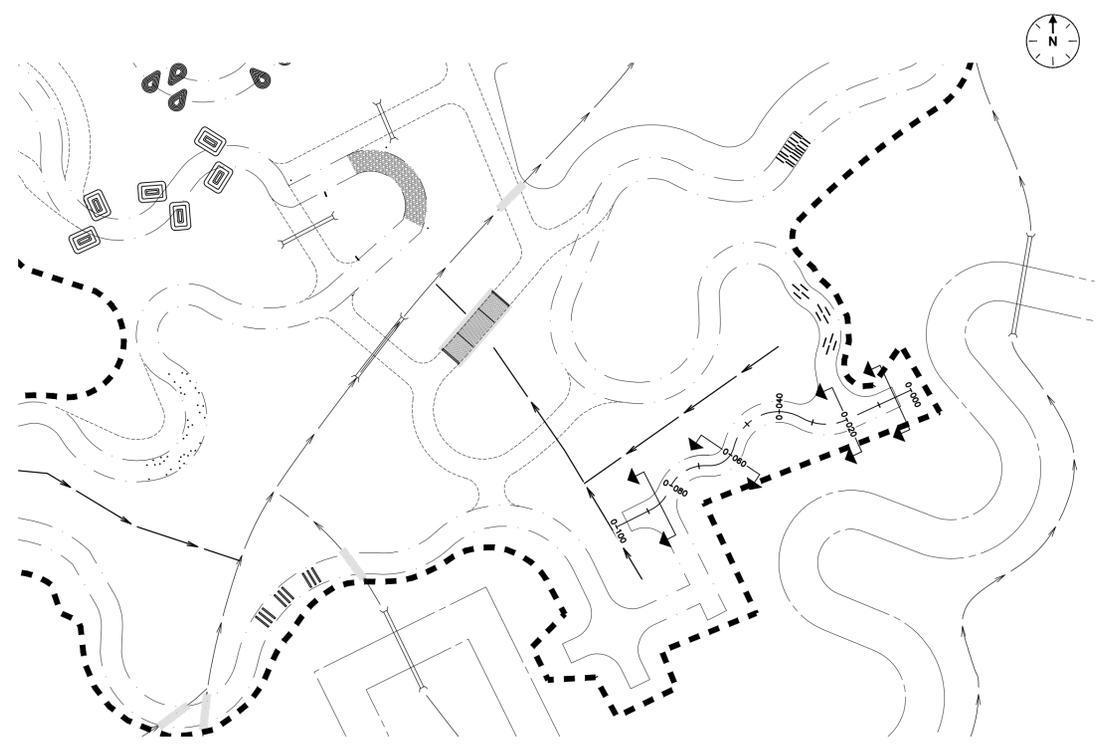
Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK CROSS-SECTION**

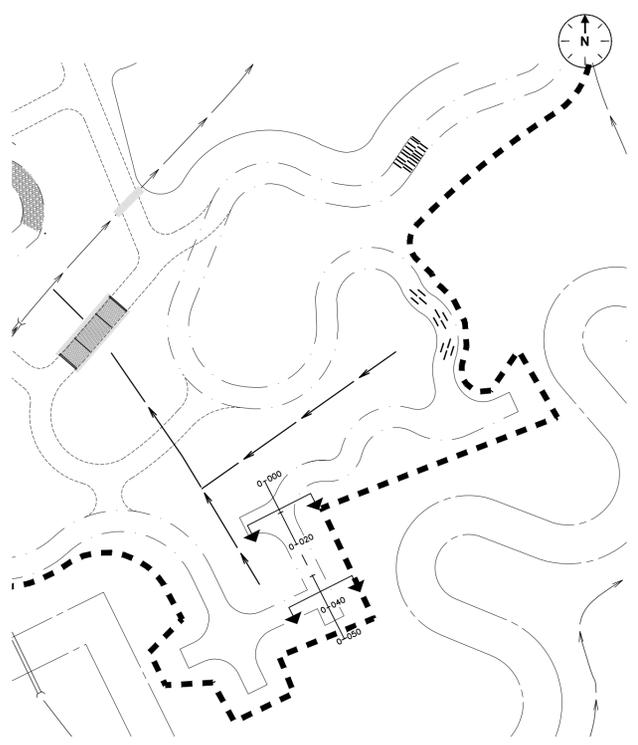
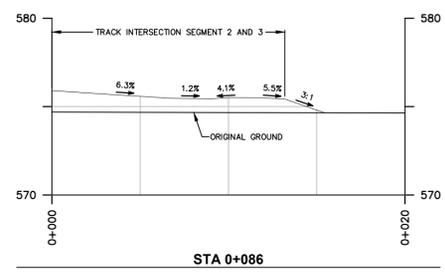
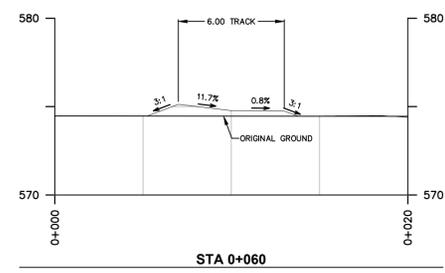
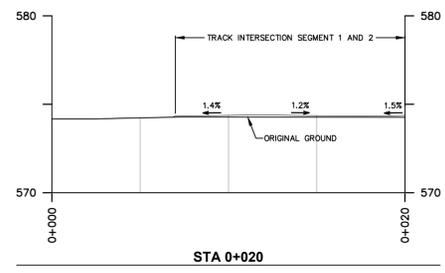
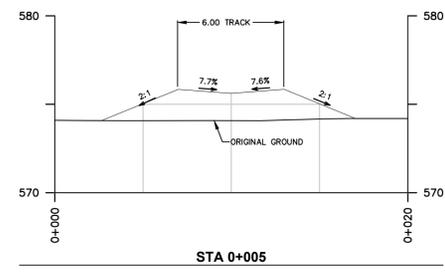
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JFC  
Designed by/Concepté par  
TST  
Drawn by/Dessiné par  
TST  
PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architecturale et de Directeur d'Ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**CROSS-SECTION SEGMENTS 2, 3 & 4**

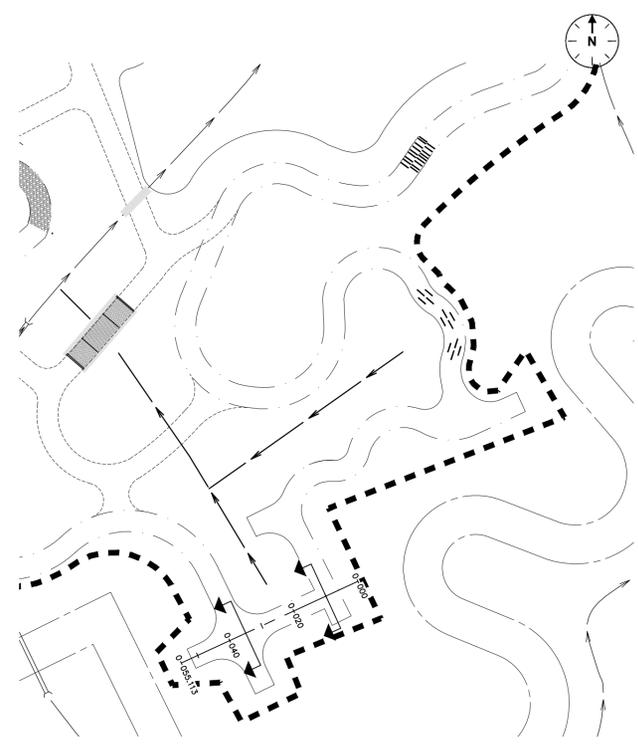
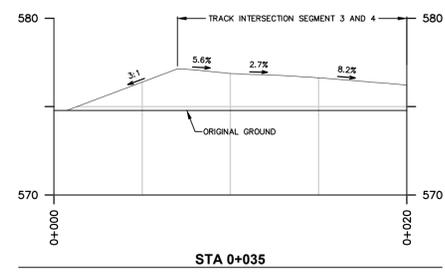
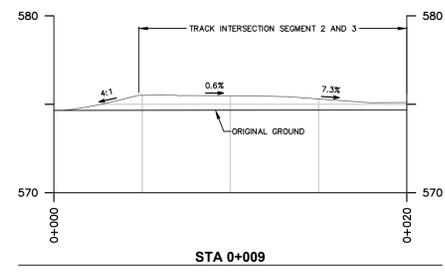
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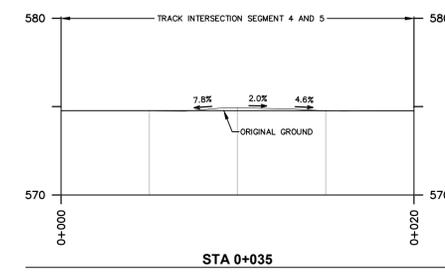
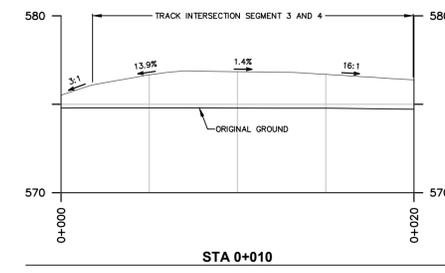
SEGMENT 2 CROSS-SECTIONS



SEGMENT 3 CROSS-SECTIONS



SEGMENT 4 CROSS-SECTIONS



REFER TO CHAINAGE ON PLAN FOR LOCATION



Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Herold Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, 20899

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08

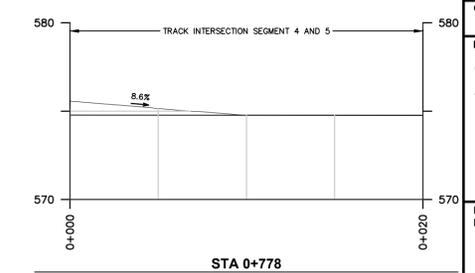
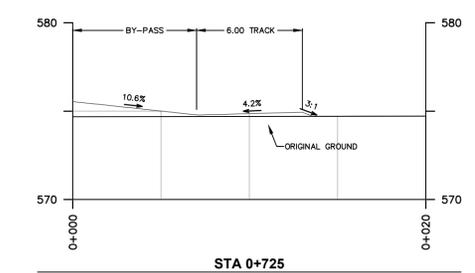
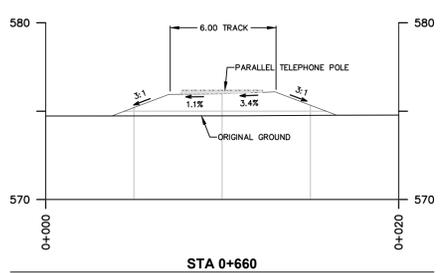
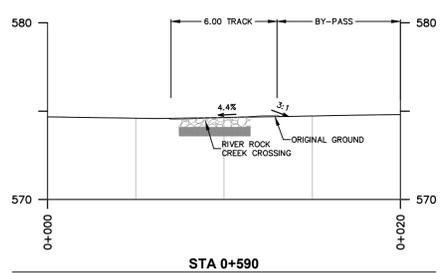
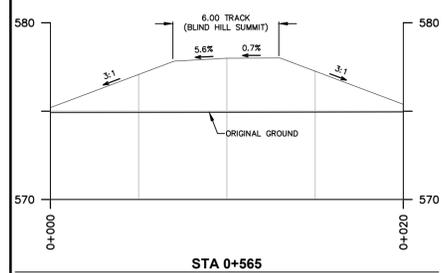
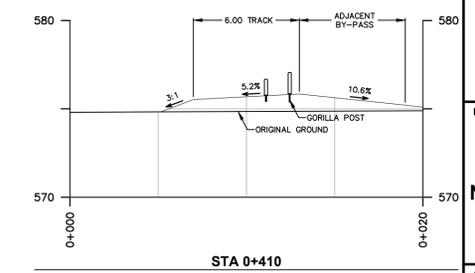
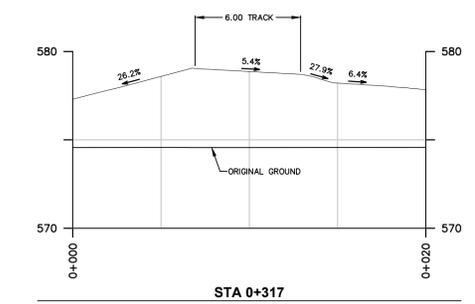
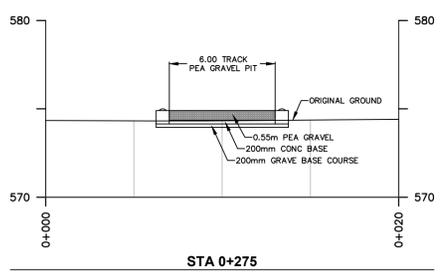
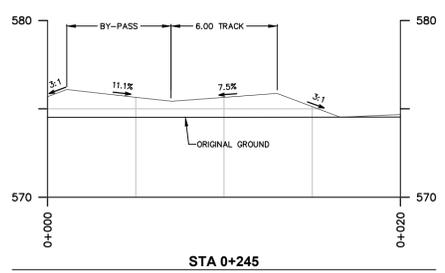
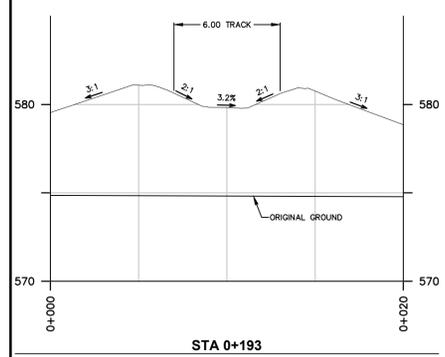
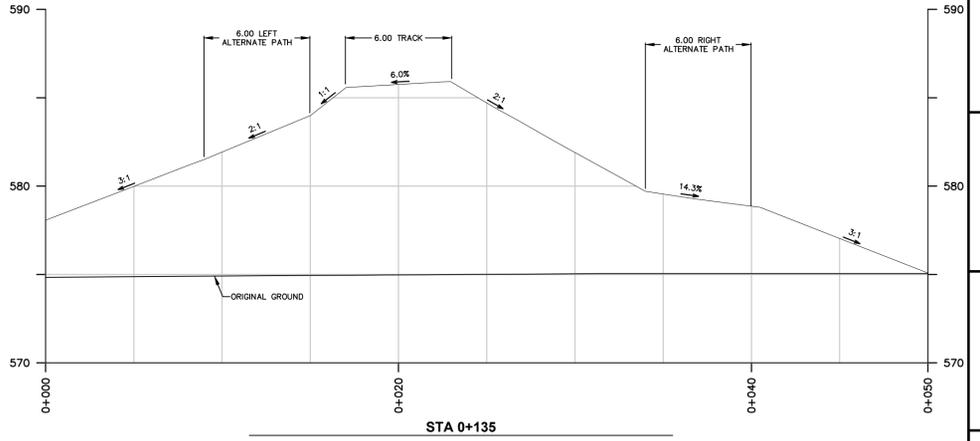
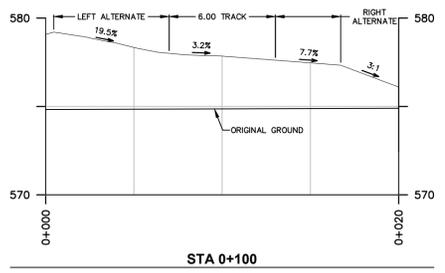
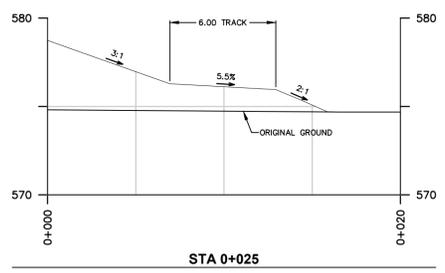
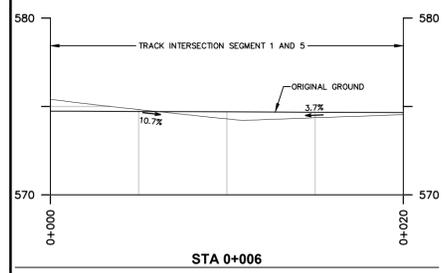
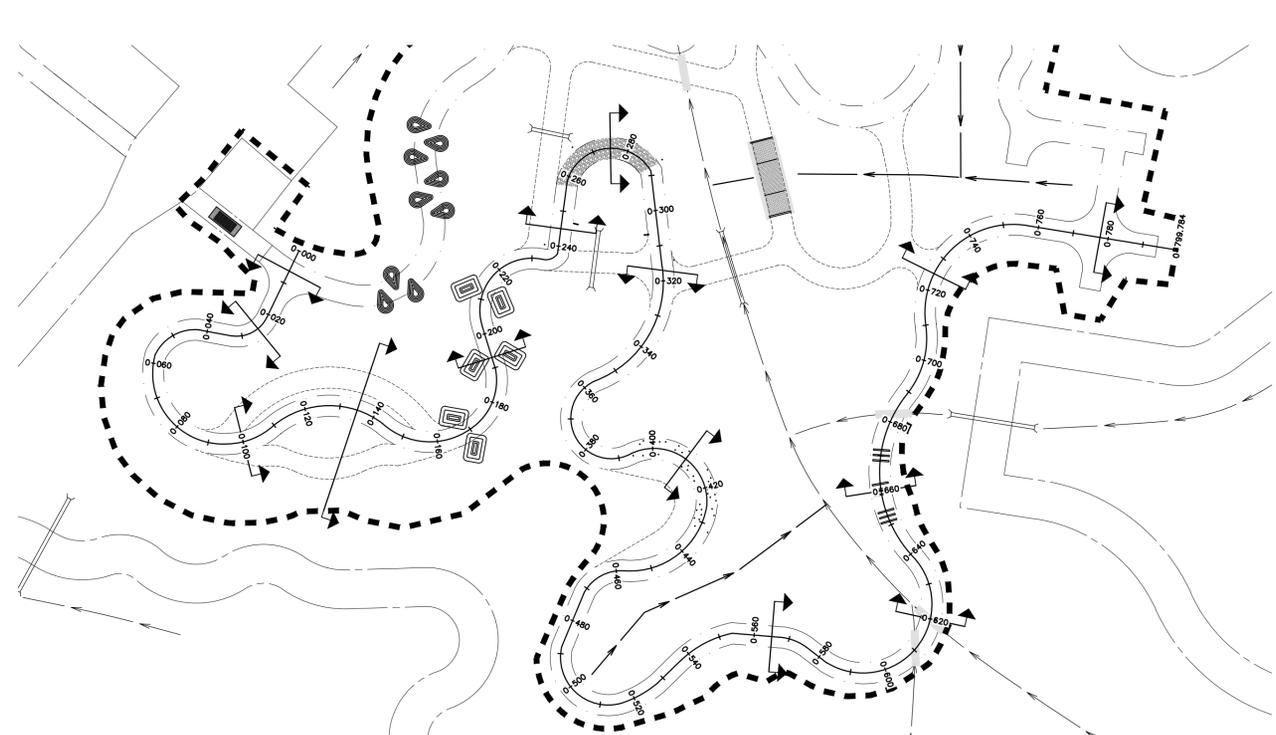
Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

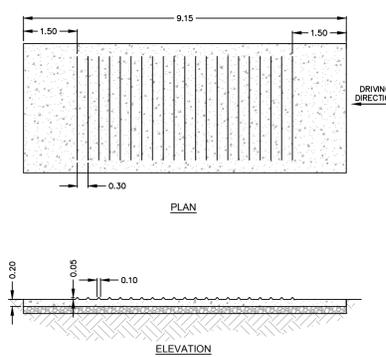
**NEW DRIVER TRAINING TRACK CROSS-SECTION**

Approved by/Approve par: JFC  
Designed by/Concept par: TST  
Drawn by/Dessine par: TST  
PWGSC Project Manager/Administrateur de Projets TPSGC: LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

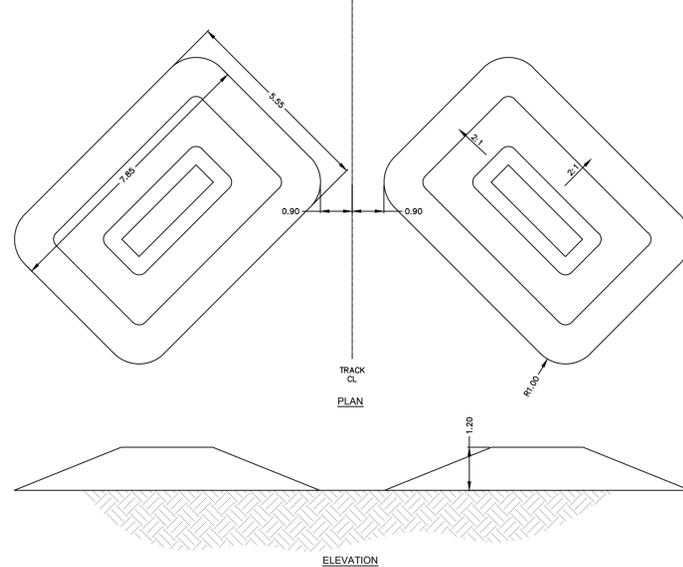
Client/client  
Drawing title/Titre du dessin: **CROSS-SECTION SEGMENT 5**

Project No./No. du projet: 3104102	Sheet/Feuille: CS-03 18 OF 29	Revision no./La Révision no.: 2.0
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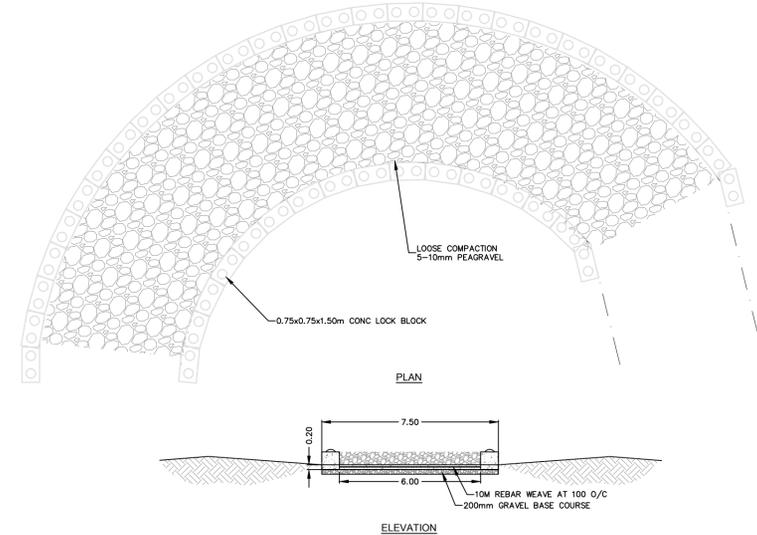




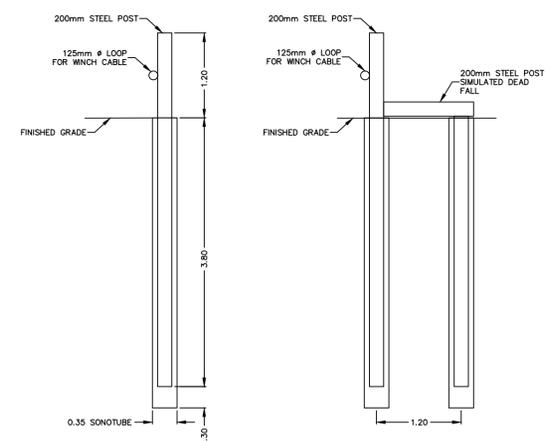
**CONCRETE "MUD" PAD**  
SCALE 1:100



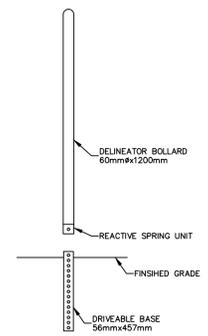
**ANGLED BERMS**  
SCALE 1:100



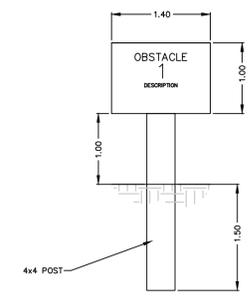
**PEA GRAVEL PIT**  
SCALE 1:150



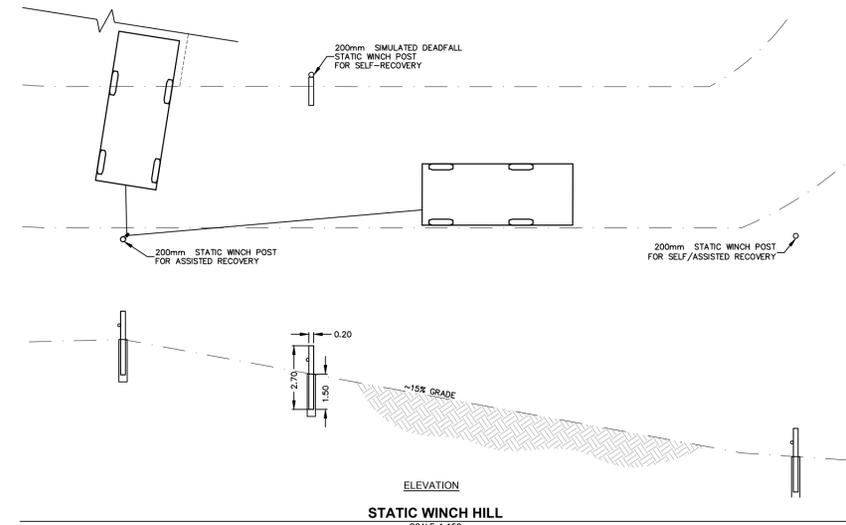
**WINCH POST DETAIL**  
SCALE 1:50



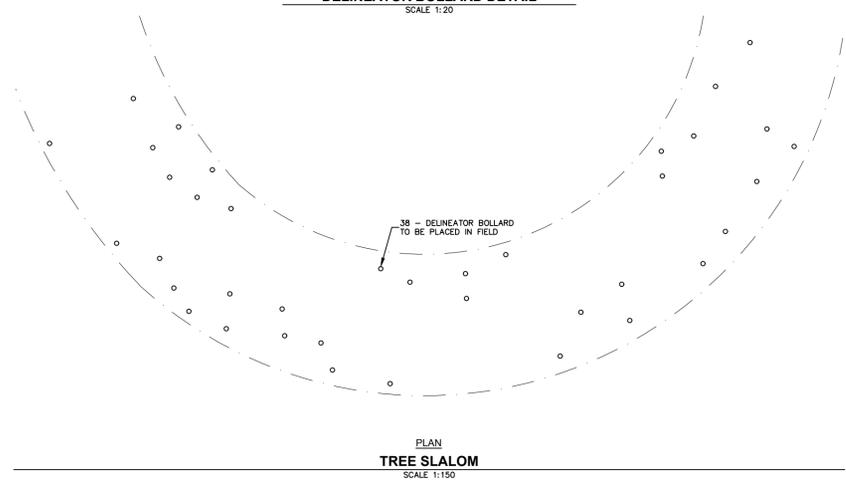
**DELINEATOR BOLLARD DETAIL**  
SCALE 1:20



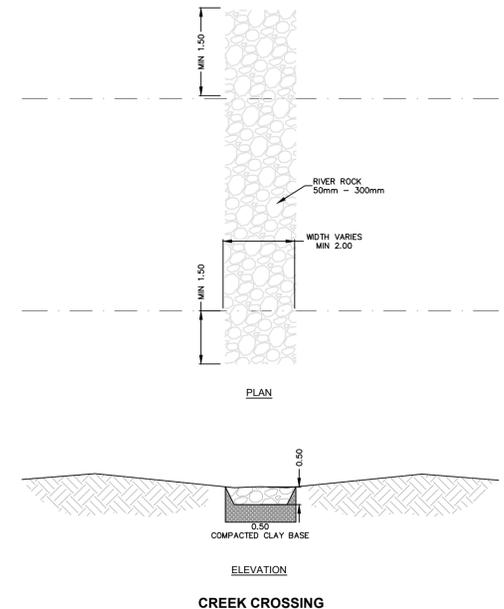
**OBSTACLE SIGN POST DETAIL**  
SCALE 1:50



**STATIC WINCH HILL**  
SCALE 1:150



**TREE SLALOM**  
SCALE 1:150



**CREEK CROSSING**  
SCALE 1:100



Revision/	Description/Description	Date/Date
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1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

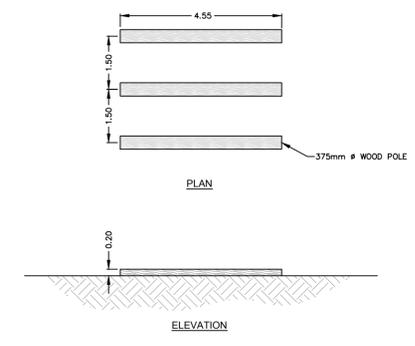
Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
DETAILS**

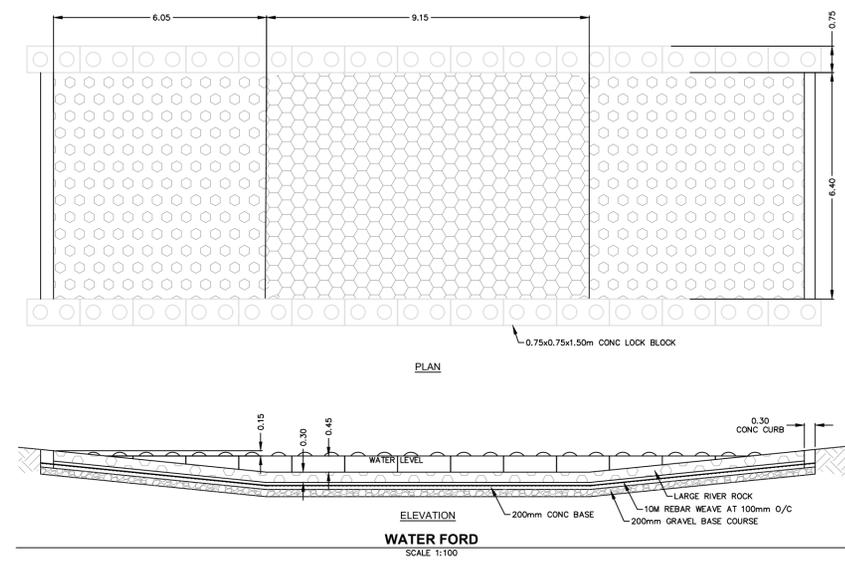
Approved by/Approuvé par  
JFC  
Designed by/Concepté par  
TSST  
Drawn by/Dessiné par  
TSST  
PWGSC Project Manager/Administrateur de Projets TPSC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSC

Client/client  
Drawing title/Titre du dessin  
**DETAILS  
COURSE ELEMENTS**

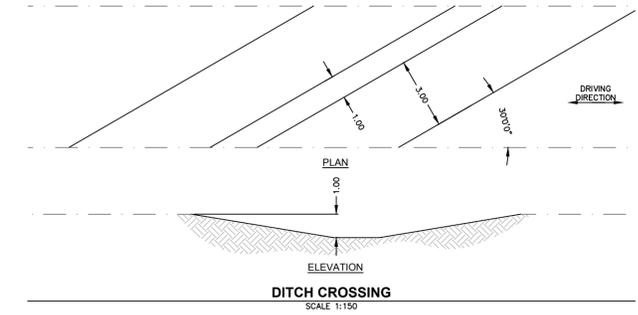
Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>DET-01</b> 19 OF 29	Revision no./ La Révision no. <b>2.0</b>
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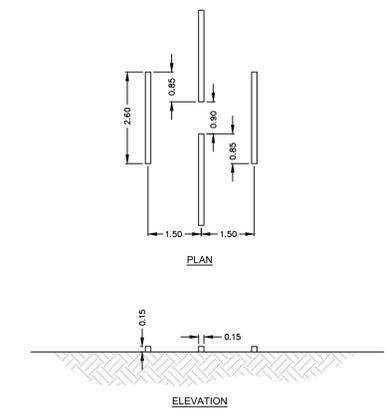
PARALLEL TELEPHONE POLES  
SCALE 1:100



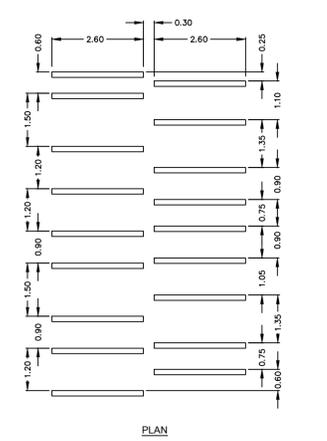
WATER FORD  
SCALE 1:100



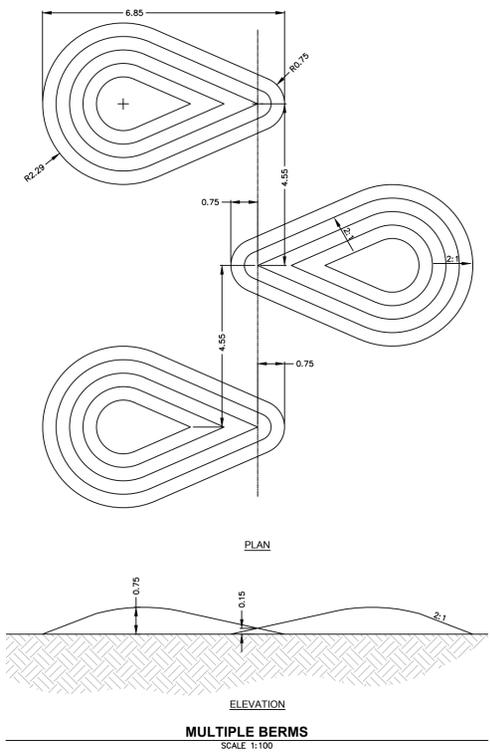
DITCH CROSSING  
SCALE 1:150



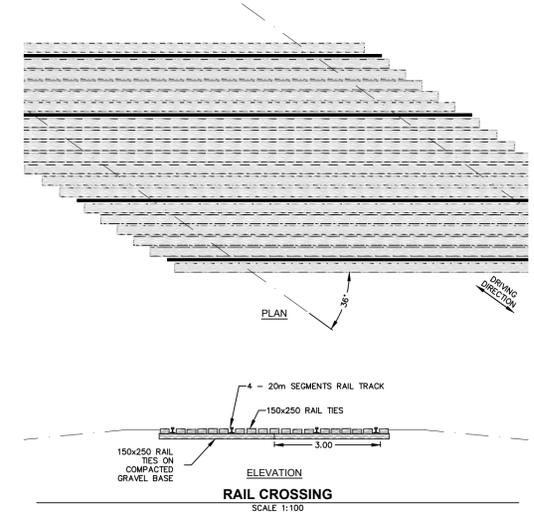
PARALLEL OFFSET RAILROAD TIES  
SCALE 1:100



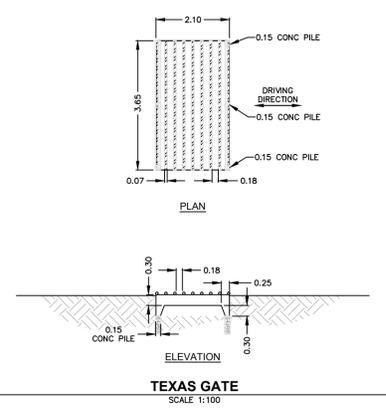
STAGGERED RAILROAD TIES  
SCALE 1:100



MULTIPLE BERMS  
SCALE 1:100



RAIL CROSSING  
SCALE 1:100



TEXAS GATE  
SCALE 1:100



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Signature: J.F. Chapman

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

**NEW DRIVER TRAINING TRACK  
DETAILS**

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TP5GC  
LIONEL OATWAY

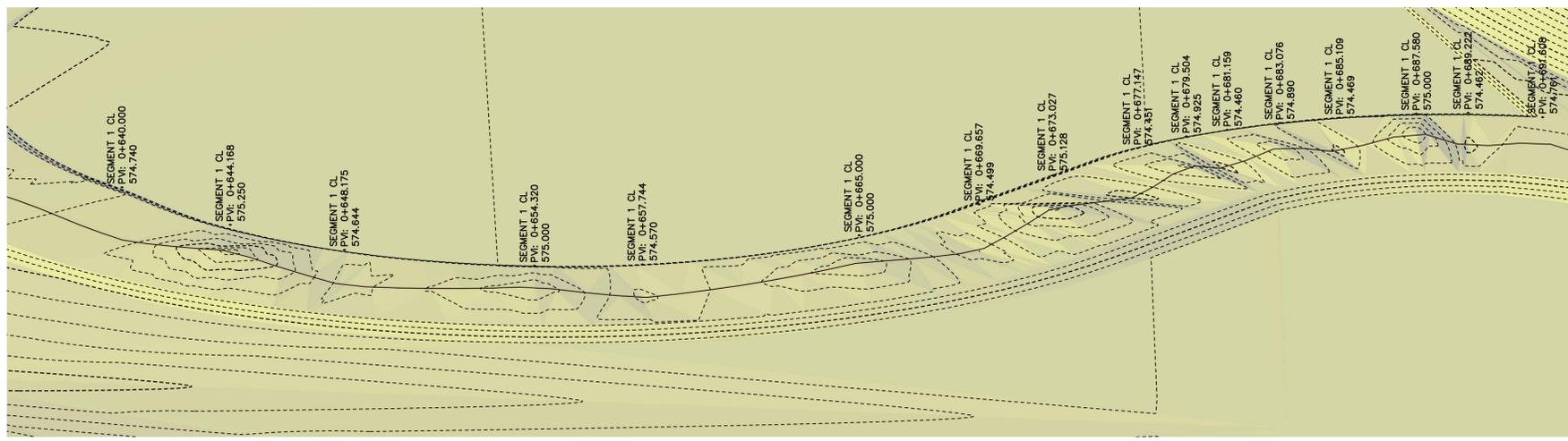
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TP5GC

Client/client

Drawing title/Titre du dessin

**DETAILS  
COURSE ELEMENTS**

Project No./No. du projet 3104102	Sheet/Feuille DET-02 20 OF 29	Revision no./La Révision no. 2.0
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ROLLER COASTER/MOGUL FIELD  
SCALE 1:100

CONTOURS SHOWN AT 0.1m INTERVALS



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20899

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Client/client  
**PWGSC**  
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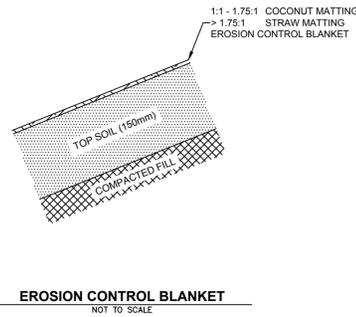
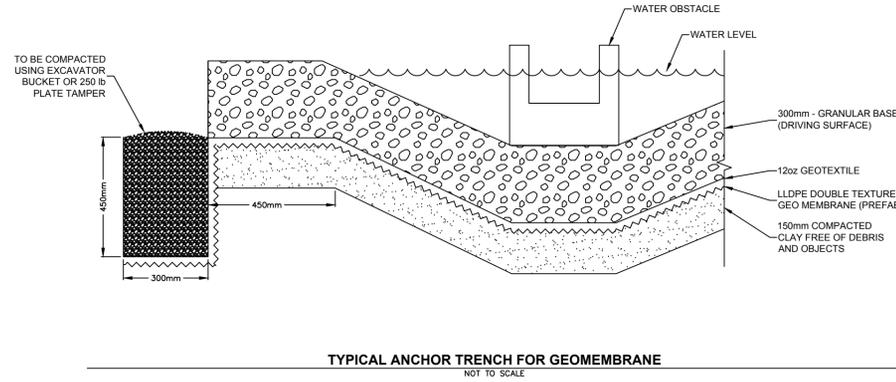
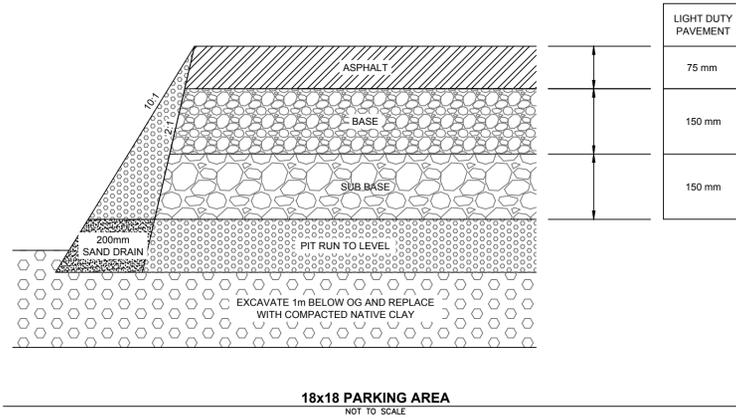
Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
DETAILS**

Approved by/Approuvé par  
JFC  
Designed by/Concept par  
TST  
Drawn by/Dessiné par  
TST  
PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**DETAILS  
COURSE ELEMENTS**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>DET-03</b> 21 OF 29	Revision no./La Révision no. <b>2.0</b>
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Revision/Exécution	Description/Description	Date/Date
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08

Client/client  
**PWGSC**  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
DETAILS**

Approved by/Approuvé par  
JFC  
Designed by/Concept par  
TST  
Drawn by/Dessiné par  
TST  
PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
Drawing title/Titre du dessin  
**DETAILS  
COURSE ELEMENTS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
3104102	DET-04 22 OF 29	2.0

**LEGEND**

CUT/FILL CONTOURS ARE CALCULATED FROM STRIPPED GROUND (OG-0.30) SURFACE TO FINISHED GRADE.

- -0.50 CUT CONTOUR
- 0.00 ZERO CUT/FILL CONTOUR
- 0.50 FILL CONTOUR

**VOLUME**

BASE SURFACE	STRIPPED OG (0.30)
COMPARISON SURFACE	FG
CUT FACTOR	1.00
FILL FACTOR	1.15
Cut volume (adjusted)	4081 Cu. M.
Fill volume (adjusted)	5792 Cu. M.
Net volume (adjusted)	53911 Cu. M. <Fill>
Cut volume (unadjusted)	4081 Cu. M.
Fill volume (unadjusted)	50428 Cu. M.
Net volume (unadjusted)	46347 Cu. M. <Fill>

STRIPPING AREA 32,800 m<sup>2</sup>  
STRIPPING VOLUME 9,844m<sup>3</sup>



2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06
Revision/	Description/Description	Date/Date

Client/client  
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**NEW DRIVER TRAINING TRACK  
4X4 COURSE**

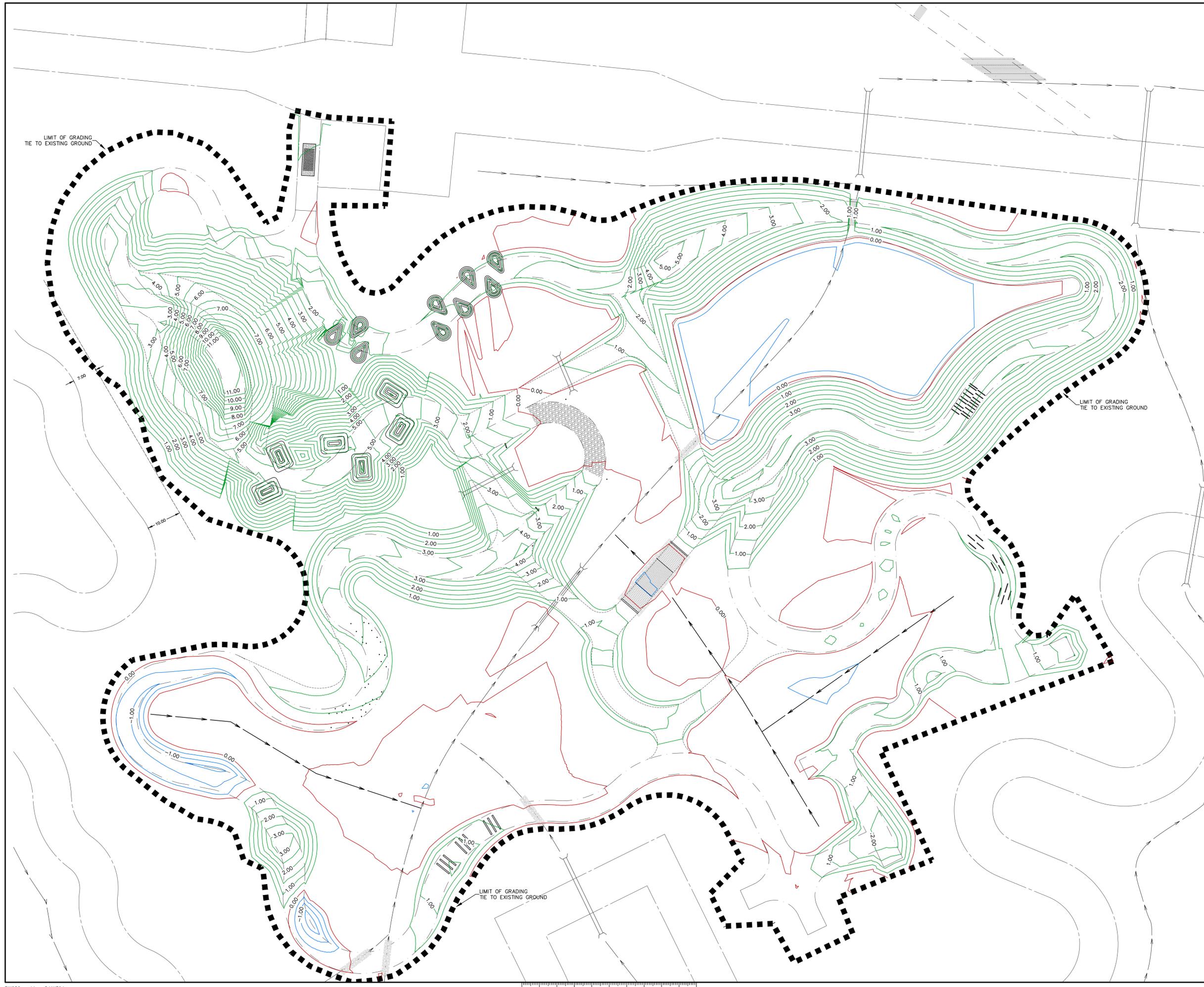
Approved by/Approve par  
**JFC**  
Designed by/Concept par  
**TST**  
Drawn by/Dessine par  
**TST**  
PWGS Project Manager/Administrateur de Projets TPSGC  
**LIONEL OATWAY**

PWGS, Architectural and Engineering Resources Manager / Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

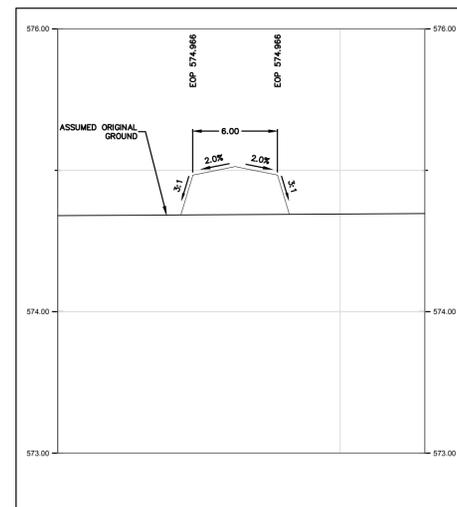
**CUT FILL PLAN**

Project No./No. du projet <b>3104102</b>	Sheet/ Feuille <b>CF-01</b> 23 OF 29	Revision no./ La Révision no. <b>2.0</b>
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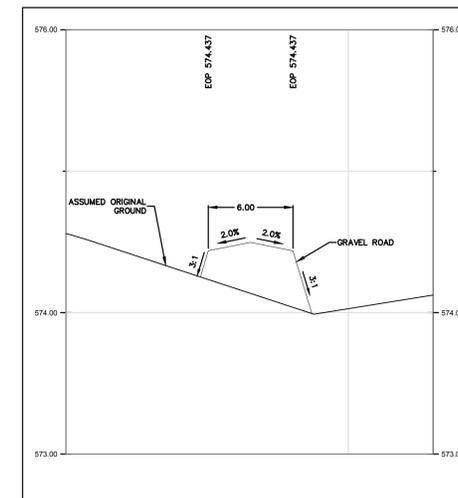


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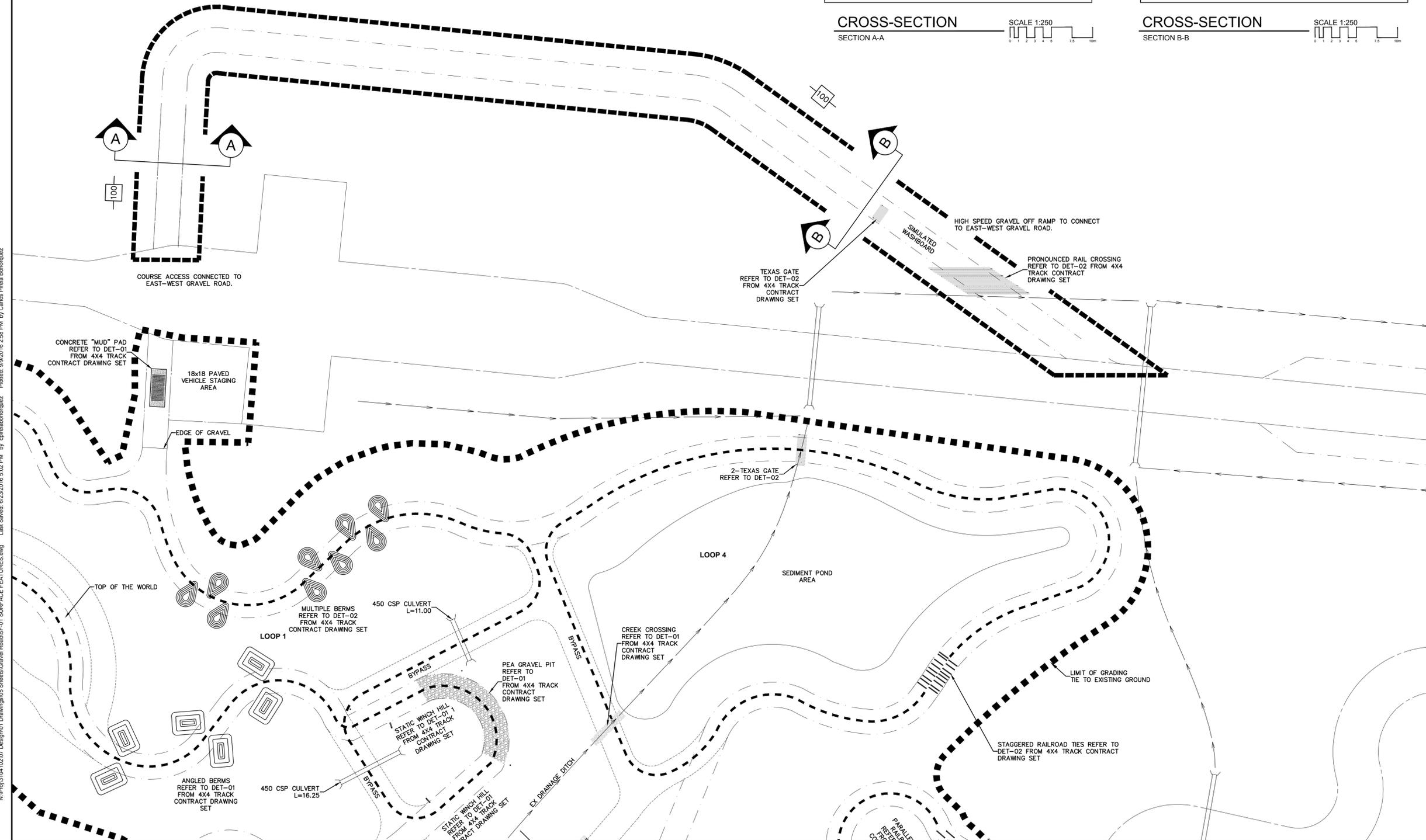
- BLOCK PROFILE SHEET NUMBER
- CONSTRUCTION BOUNDARY
- LIP OF GUTTER
- EDGE OF PAVEMENT (NO CURB)
- COLLECTOR STANDARD PAVEMENT
- CONCRETE SWALE
- GRASSED SWALE / DITCH
- SWALE / DITCH HIGH POINT
- CONCRETE SPLASH PAD
- STORM OUTFALL WITH RIP RAP
- CULVERT



CROSS-SECTION SECTION A-A SCALE 1:250



CROSS-SECTION SECTION B-B SCALE 1:250



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CIVIL 20899 / *JFC*

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2016-09-09

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Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK GRAVEL ROAD**

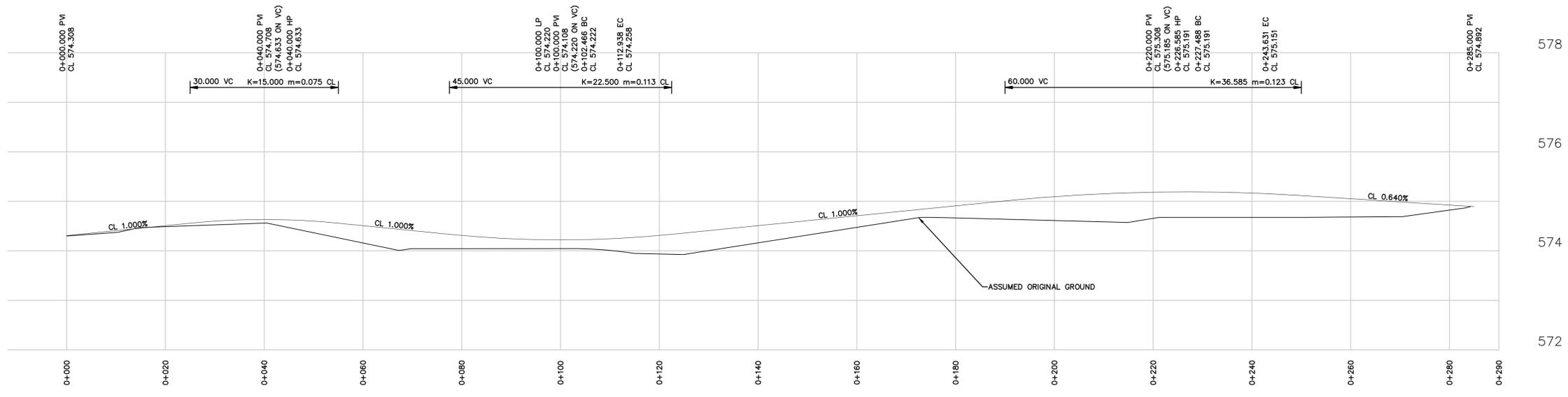
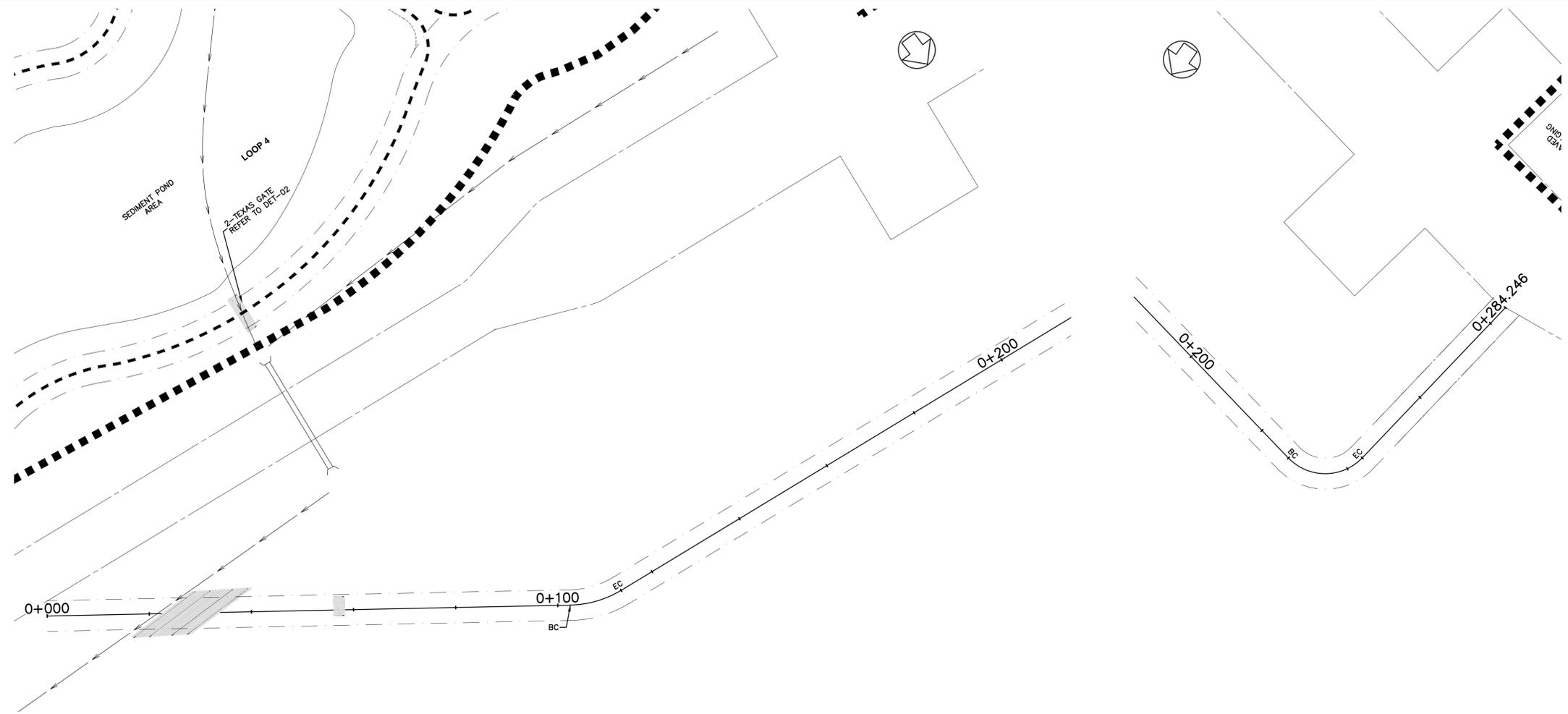
Approved by/Approve par  
Designed by/Concept par  
JFC  
Drawn by/Dessiné par  
CPB  
PWGSC Project Manager/Administrateur de Projets TPWGC  
LIONEL OATWAY  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'Ingénierie, TPWGC  
Client/client

Drawing title/Titre du dessin  
**SURFACE FEATURES**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>SF-01</b> 24 OF 29	Revision no./ La Révision no. <b>1</b>
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1	ISSUED FOR TENDER	2016-09-09

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 Regina, SK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
 GRAVEL ROAD**

Approved by/Approve par: JFC  
 Designed by/Concept par: JFC  
 Drawn by/Dessiné par: CPB  
 PWGSC Project Manager/Administrateur de Projets TPSSC: LIONEL OATWAY  
 PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSSC

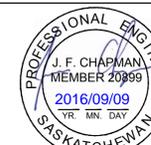
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 100**

Project No./No. du projet <b>3104102</b>	Sheet/Fauille <b>BP-100</b> 25 OF 29	Revision no./ La Révision no. <b>1</b>
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LEGEND

- 302 BLOCK PROFILE SHEET NUMBER
- CONSTRUCTION BOUNDARY
- - - X - - - EXISTING/PROPOSED WATER MAIN AND VALVE
- - - FUTURE WATER MAIN AND VALVE
- ⊗ CHECK VALVE
- CROSS
- TEE
- PLUG



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1	ISSUED FOR TENDER	2016-09-09
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Revision/	Description/Description	Date/Date
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Client/client  
**PWGSC**  
 1800 11th Avenue, Suite 201  
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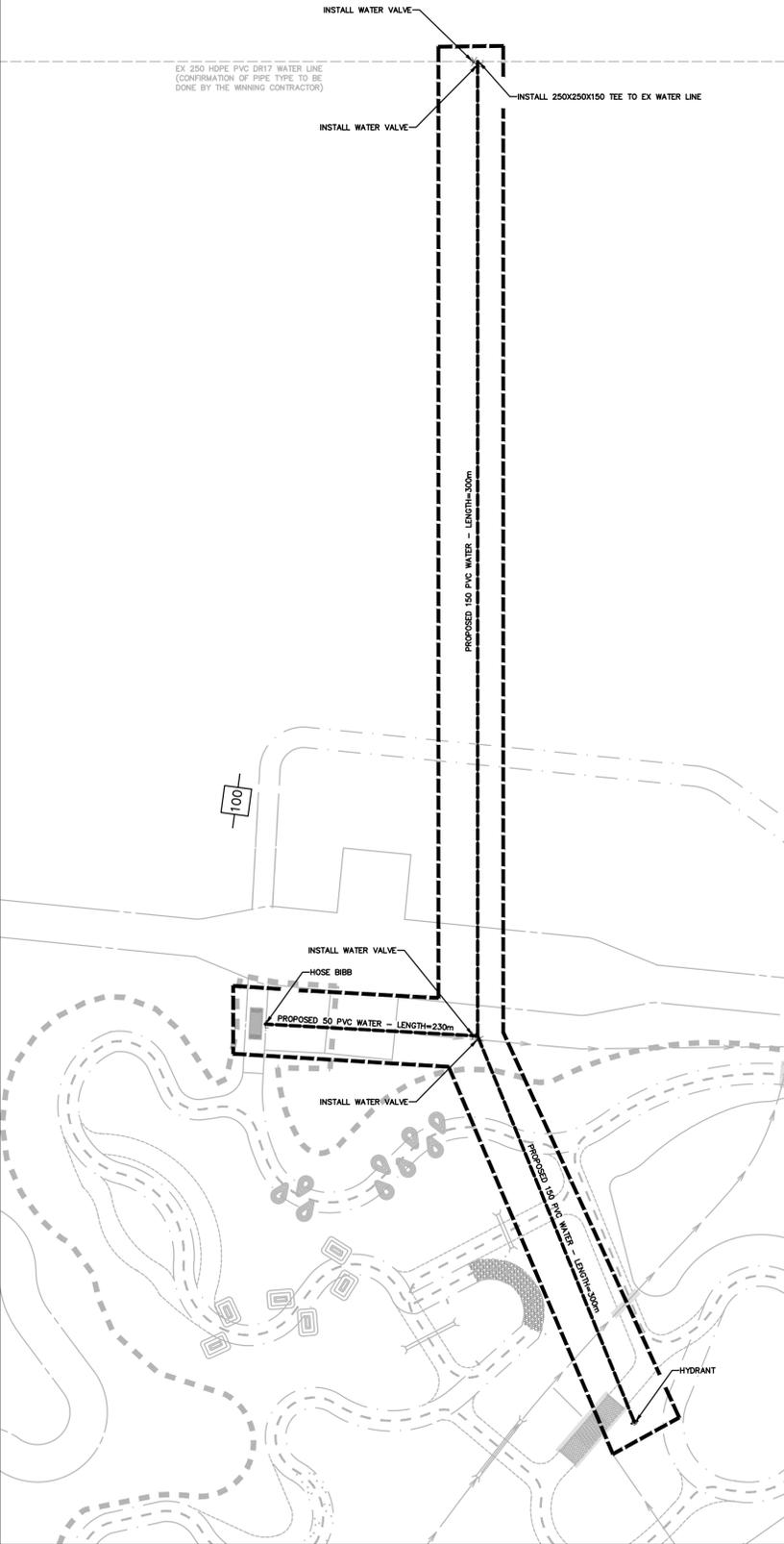
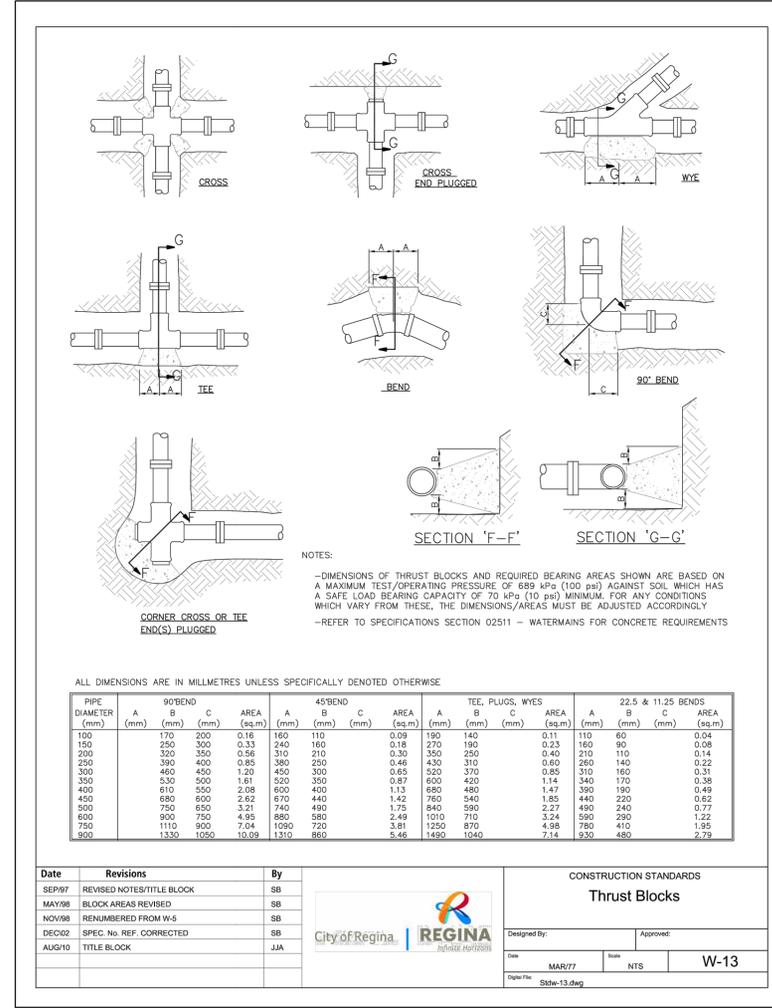
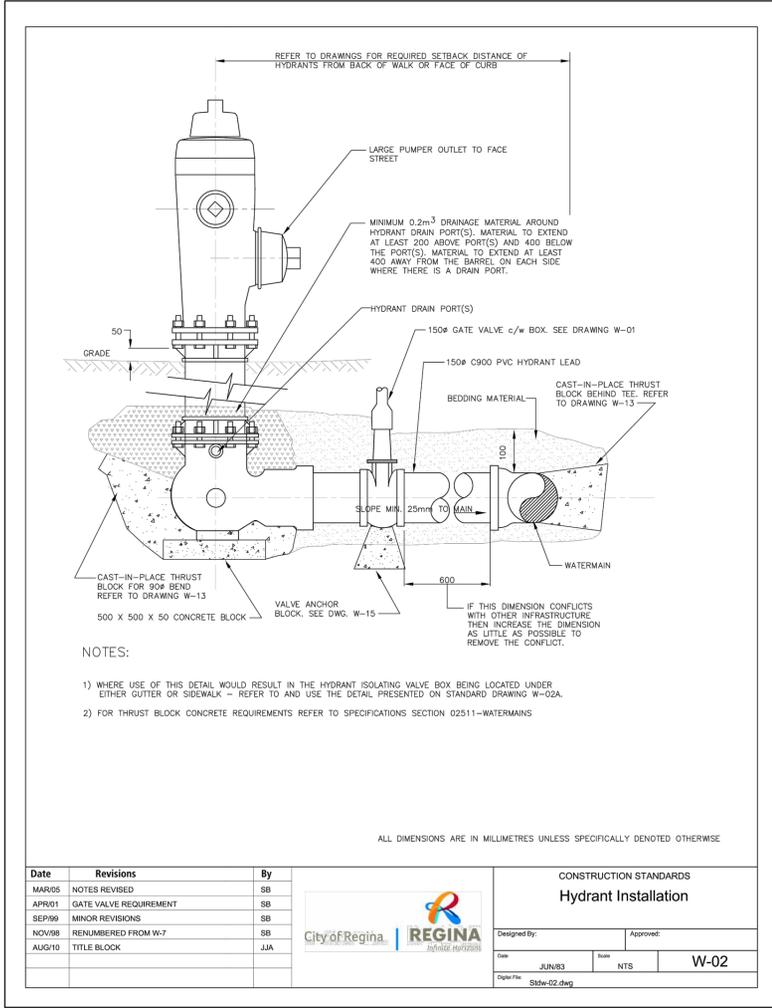
**NEW DRIVER TRAINING TRACK GRAVEL ROAD**

Approved by/Approve par: JFC  
 Designed by/Concept par: JFC  
 Drawn by/Dessiné par: CPB  
 PWGSC Project Manager/Administrateur de Projets TPSGC: LIONEL OATWAY  
 PWGSC Architectural and Engineering Resources Manager/Ressources Architecturales et de Directeur d'Ingénierie, TPSGC

Client/client

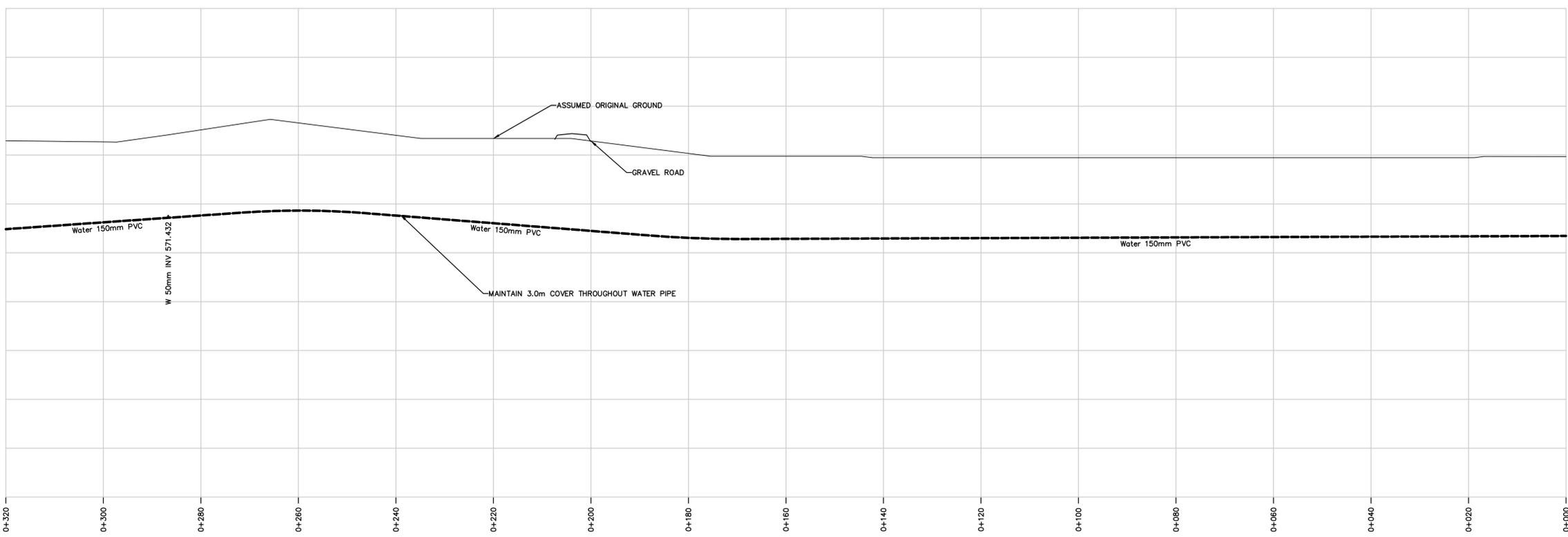
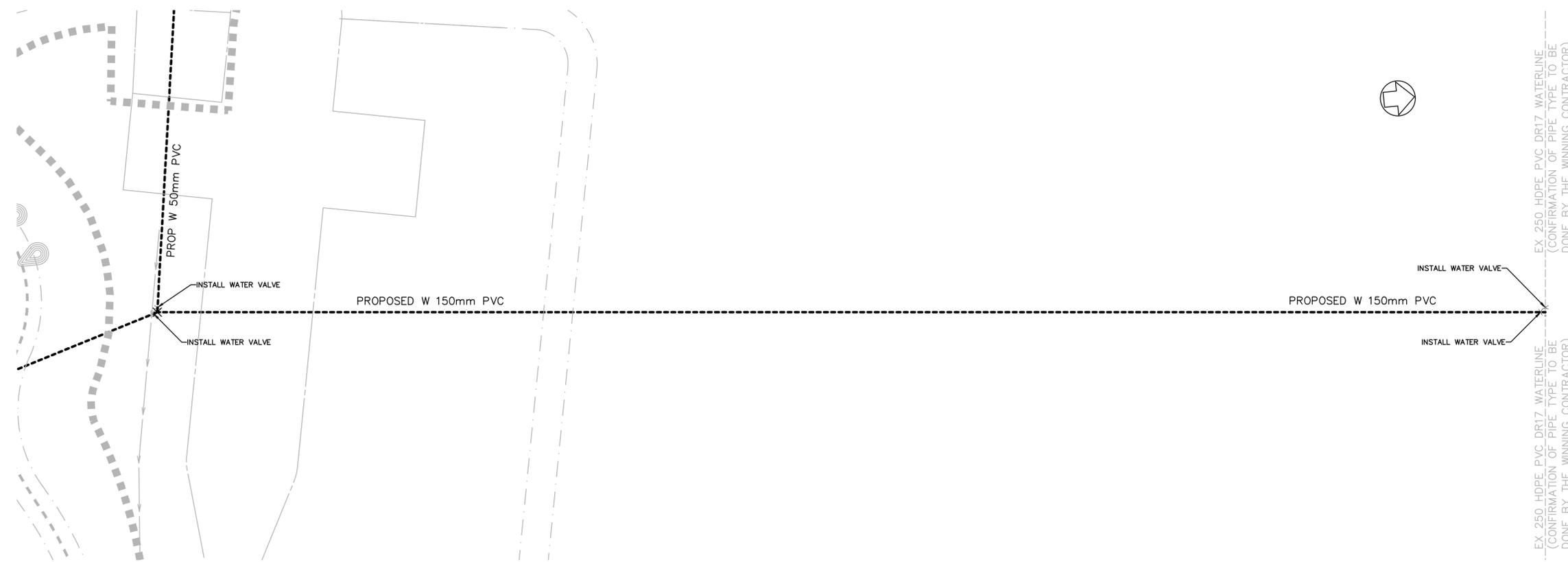
Drawing title/Titre du dessin  
**WATERWORKS**

Project No./No. du projet: 3104102	Sheet/Fauille: WTR - 01	Revision no./Loi Révision no.: 1
26 OF 29		



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580  
576  
572  
568  
564  
560



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1	ISSUED FOR TENDER	2016-09-09
Revision/	Description/Description	Date/Date

Client/client  
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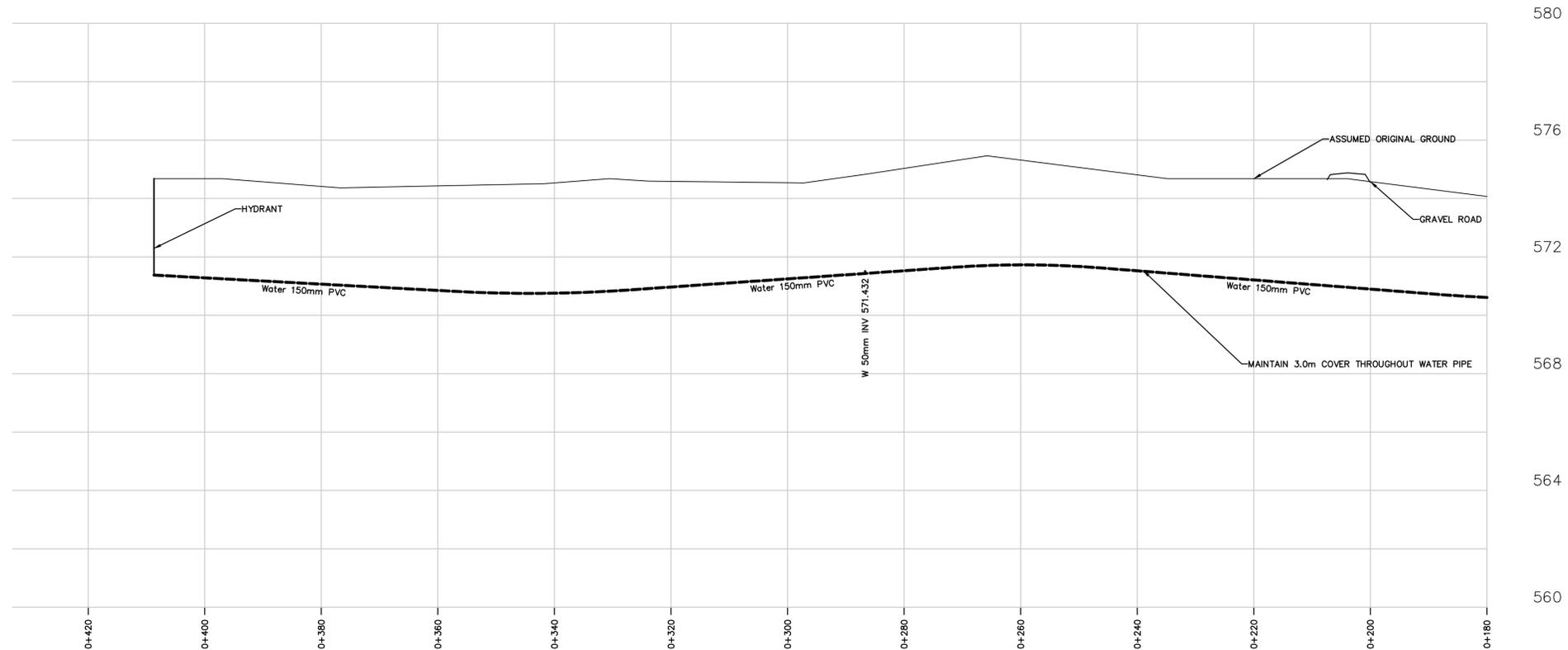
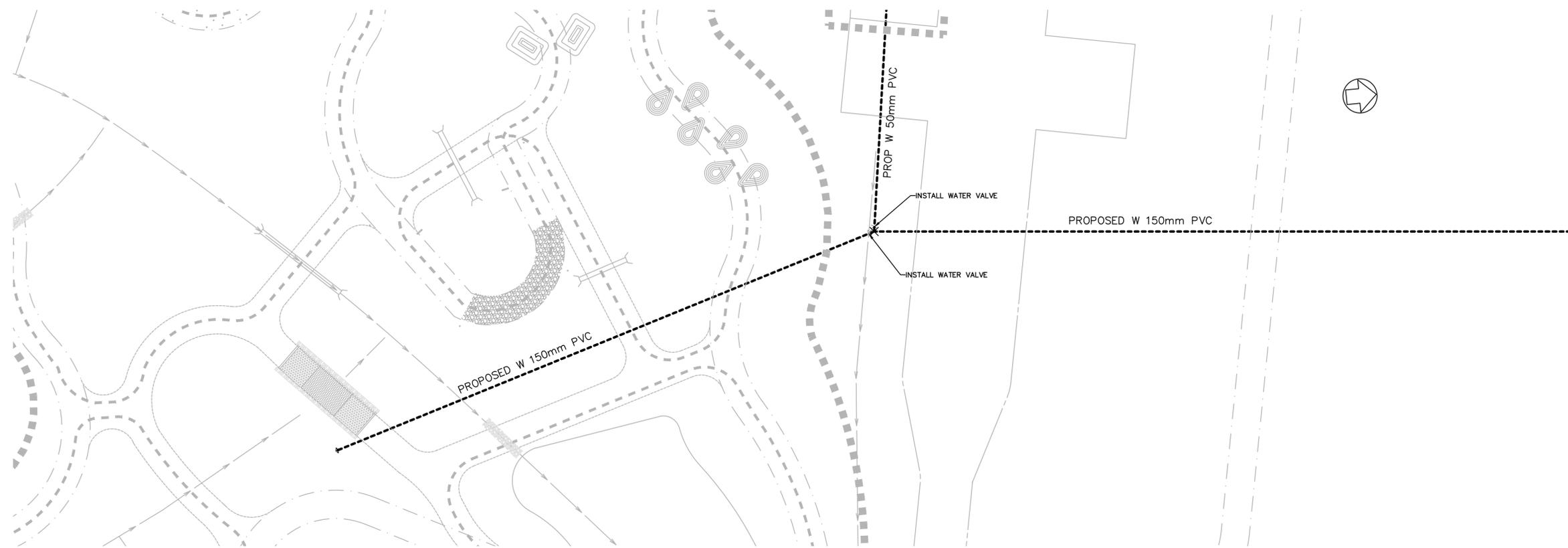
Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
 GRAVEL ROAD**

Approved by/Approve par: JFC  
 Designed by/Concept par: JFC  
 Drawn by/Dessiné par: CPB  
 PWGSC Project Manager/Administrateur de Projets TPSCG: LIONEL OATWAY  
 PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSCG

Client/client  
 Drawing title/Titre du dessin  
**WATER - 150mm  
 PROFILE**

Project No./No. du projet: 3104102	Sheet/Feuille: WTR-02 27 OF 29	Revision no./La Révision no.: 1
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Revision/	Description/Description	Date/Date
1	ISSUED FOR TENDER	2016-09-09

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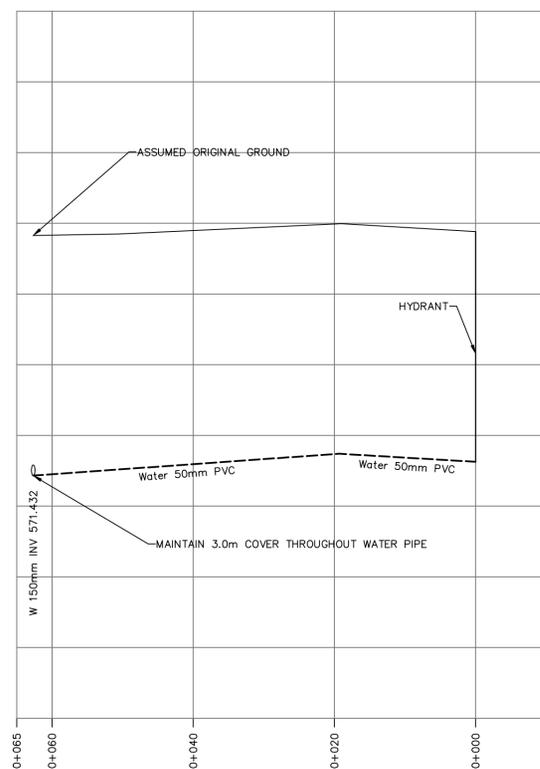
Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
 GRAVEL ROAD**

Approved by/Approve par  
 JFC  
 Designed by/Concept par  
 JFC  
 Drawn by/Dessine par  
 CPB  
 PWGSC Project Manager/Administrateur de Projets TPWGC  
 LIONEL OATWAY  
 PWGSC Architectural and Engineering Resources Manager/  
 Ressources Architecturales et de Directeur d'Ingénierie, TPWGC

Client/client  
 Drawing title/Titre du dessin  
**WATER - 150mm  
 PROFILE**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>WTR-03</b> 28 OF 29	Revision no./ La Révision no. <b>1</b>
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1	ISSUED FOR TENDER	2016-09-09
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Revision/Revision	Description/Description	Date/Date
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Client/client  
**PWGSC**  
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 Regina, SASK, S4P 0H8

Project title/Titre du projet  
**NEW DRIVER TRAINING TRACK  
 GRAVEL ROAD**

Approved by/Approve par  
 JFC  
 Designed by/Concept par  
 JFC  
 Drawn by/Dessine par  
 CPB  
 PWGSC Project Manager/Administrateur de Projets TPSCG  
 LIONEL OATWAY  
 PWGSC, Architectural and Engineering Resources Manager/  
 Ressources Architecturales et de Directeur d'Ingénierie, TPSCG

Client/client  
 Drawing title/Titre du dessin  
**WATER - 50mm  
 PROFILE**

Project No./No. du projet <b>3104102</b>	Sheet/Fauille <b>WTR-04</b> 29 OF 29	Revision no./ La Révision no. <b>1</b>
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