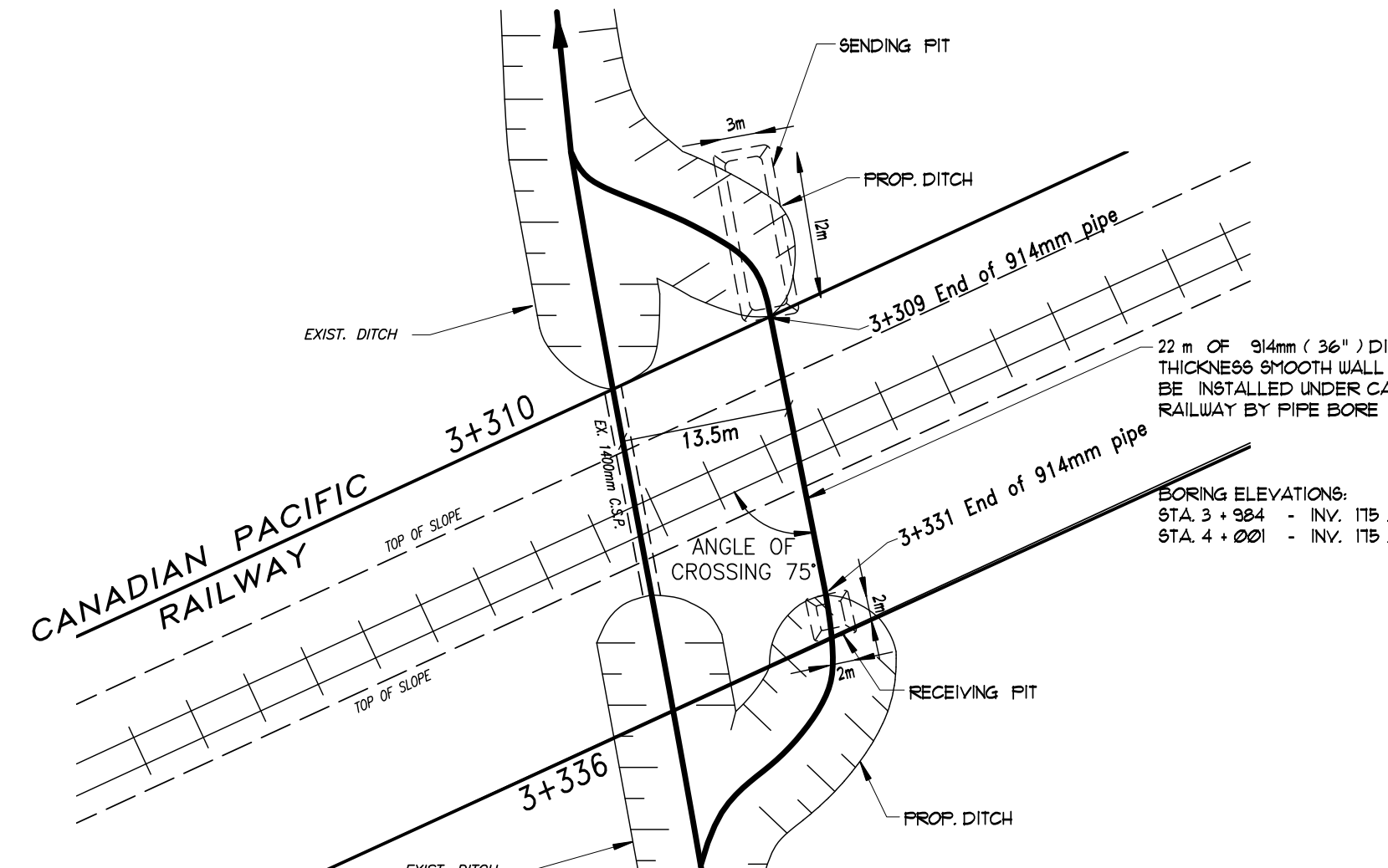
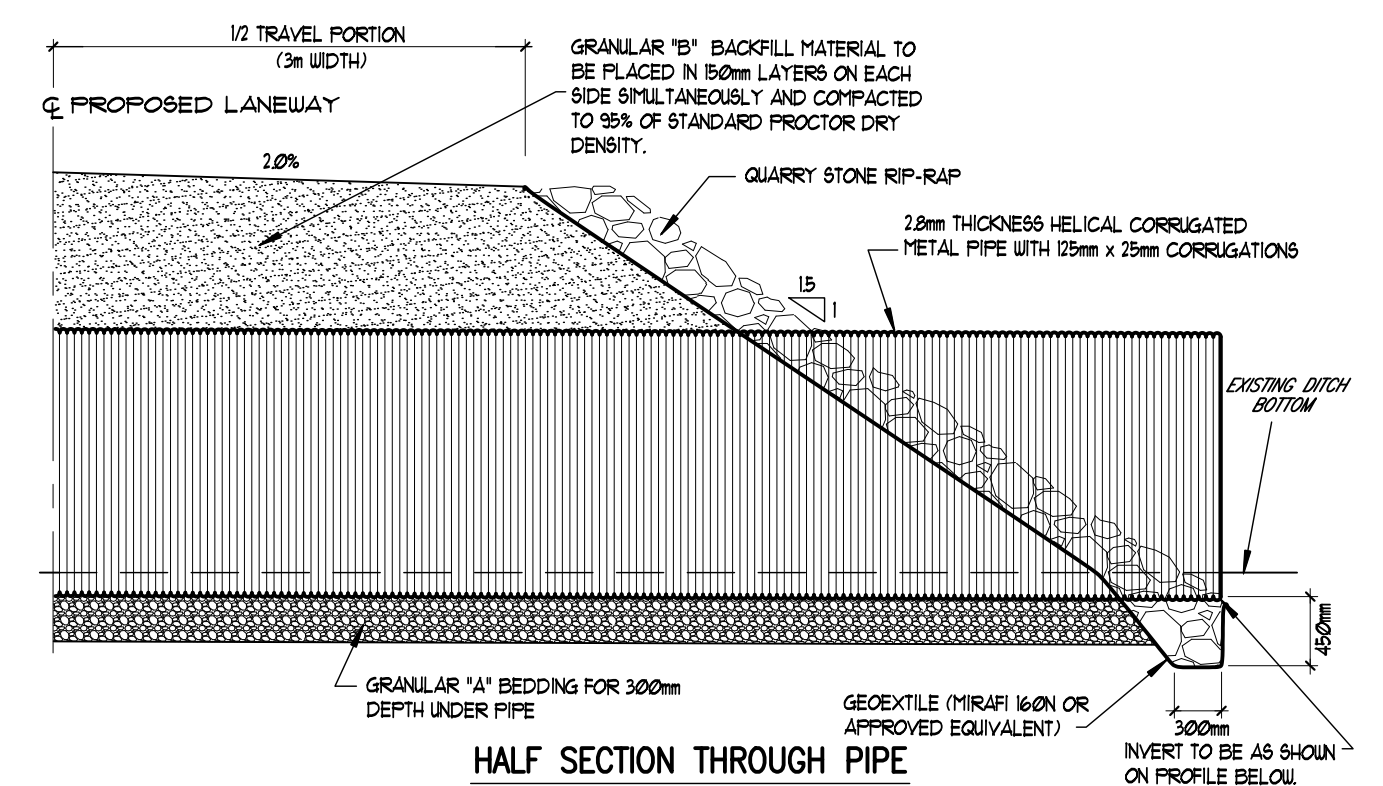


**CULVERT DETAIL**  
N.T.S.



**PLAN OF MAIN DRAIN  
C. P. R. UNDERCROSSING**  
SCALE 1:500



**NOTES**  
1) WHERE THE CULVERT IS TO BE INSTALLED IN POOR SOIL CONDITIONS THE BEDDING MATERIAL SHALL BE 19mm CRUSHED STONE COMPLETELY WRAPPED IN GEOTEXILE SUCH AS MIRAF 160N OR APPROVED EQUIVALENT.

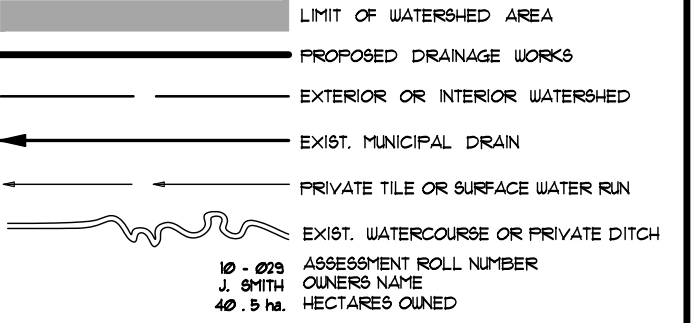
**GENERAL NOTES**

- OUR SPECIFICATIONS DATED JANUARY 2009 APPLY TO THIS PROJECT.
- THE WORKING WIDTH AVAILABLE TO THE CONTRACTOR TO CONSTRUCT THE NEW DRAINS SHALL CONSIST OF THOSE LANDS IMMEDIATELY ADJACENT TO THE DRAIN AND CONNECTIONS AND SHALL NOT EXCEED THE FOLLOWING AVERAGE WIDTHS:  
OPEN PORTIONS - BUSH AREAS  
- 18 METERS (INCLUDING 3m BUFFER)  
- 15 METERS TOTAL (REMOVE ONLY TREES ALONG BANK AND THOSE ABSOLUTELY NECESSARY TO COMPLETE CONSTRUCTION)
- THE WORKING WIDTH FOR PURPOSES OF FUTURE MAINTENANCE SHALL BE THE SAME AS ABOVE.
- ALL OWNERS ALONG THE COURSE OF THE DRAIN SHALL MAKE AN ACCESS ROUTE FROM THE NEAREST ROAD TO THE DRAIN LOCATION AVAILABLE TO THE CONTRACTOR THE AVERAGE WIDTH OF THIS ROUTE SHALL NOT EXCEED 8 METERS. THE ACCESS ROUTE SHALL ALSO APPLY FOR FUTURE MAINTENANCE PURPOSES.
- ALL UTILITIES TO BE LOCATED AND EXPOSED PRIOR TO CONSTRUCTION SO THAT THE NEW TILE GRADES CAN BE CONFIRMED. IF THERE IS A CONFLICT IN ELEVATION BETWEEN THE PROPOSED DRAIN AND THE UTILITY, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.  
b) CONTRACTOR TO NOTIFY ALL UTILITIES 12 HOURS PRIOR TO HIS SCHEDULED TIME FOR STARTING THE ABOVE WORK.  
c) THE COST FOR THIS WORK SHALL BE INCLUDED IN THE ITEM ON THE EXTENT OF WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR, EXCEPT IF ROAD RESTORATION IS REQUIRED.
- ALL TREES, SCRUB, BRUSH, ETC. TO BE CLEARED AND GRUBBED IN ACCORDANCE WITH "SECTION B.3 AND C.4" SPECIFICATIONS.
- RIP-RAP TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH "SECTION A.28" IN THE SPECIFICATIONS.
- CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, DRAINAGE SUPERINTENDENT, AND THE AFFECTED OWNERS. ALL PARTIES SHALL RECEIVE 48 HOURS NOTICE TO THE MEETING.
- OPEN PORTIONS**
- EXISTING DITCH TO BE RECONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS WORK TO BE COMPLETED FROM AND EXCAVATED MATERIAL TO BE DEPOSITED AND LEVELLED ON THE FOLLOWING SIDES OF THE DITCH IN ACCORDANCE WITH "SECTION B.5" IN THE SPECIFICATIONS:  
STA. 0 + 150 TO STA. 0 + 548 - SOUTH SIDE AND LEVELLED  
STA. 0 + 548 TO STA. 2 + 908 - NORTH / WEST SIDE AND LEVELLED  
STA. 2 + 908 TO STA. 3 + 981 - WEST SIDE AND LEVELLED  
STA. 3 + 981 TO STA. 4 + 431 - EAST SIDE AND LEVELLED
- A 3 METER WIDE BUFFER STRIP OF NEW 4 EXISTING VEGETATION BETWEEN THE TOP OF THE BANK AND THE CULTIVATED LANDS ON BOTH SIDES OF THE DITCH SHALL BE MAINTAINED AS PART OF THE OPEN PORTION OF THE CARTER DRAIN.
- NEWLY EXPOSED DITCH BANKS ARE TO BE HAND SEEDING UPON COMPLETION OF CONSTRUCTION IN ACCORDANCE WITH "SECTION B.11" IN THE SPECIFICATIONS
- SILT FENCE TO BE PLACED ACROSS DITCH BOTTOM AT STA. 0 + 150 DURING CONSTRUCTION TO PREVENT SILT FROM FLUSHING DOWNSTREAM. SILT FENCE AND SILT TO BE REMOVED AND DISPOSED OF AFTER CONSTRUCTION.
- STATIONS 0 + 540 - 1 + 930 4.2 x 8.10  
CONSTRUCT SEDIMENT BASIN IN DITCH BOTTOM FOR FULL WIDTH OF DITCH BOTTOM. SEDIMENT BASIN TO BE 450mm DEEP WITH PARABOLIC SHAPE AND 10m LONG.

LOT LEGEND		
ROLL NO.	OWNERSHIP	HECTARES OWNED
1)	5-162 G. TURNER	1.5
2)	5-096 F. MIHALCZ	1.0
3)	5-095 S. & J. PARKER	0.2
4)	5-094 T. & J. THOMPSON	0.5
5)	5-092 D. BARLESS & K. CLARK	0.2
6)	5-091 G. TOCHER & R. SHELLY	0.2
7)	5-090 J. & S. KINGMA	0.2
8)	5-089 J. & B. HUNTER	0.2
9)	5-087 R. & A. MAXWELL	0.5
10)	5-086 T. FORESTELL	0.2
11)	5-085 S. GRANT & P. KOMENDA	0.2
12)	5-084 L. & D. HATCHER	0.2
13)	5-083 HALDIMAND COUNTY	0.2
14)	5-082 C. LINDE	0.5
15)	5-080 W. SCHIPPER	0.2
16)	5-079 V. GAGE	0.2
17)	5-078 G. & C. FAIR	0.5
18)	5-076 J. & D. VAN DER BEEK	0.2
19)	5-075 F. & W. VANDERVELDE	0.2
20)	5-074 E. & M. KELLY	0.2
21)	5-073 J. & J. HOUSER	0.5
22)	5-071 J. HOUSER	0.2
23)	5-070 D. & D. MALONEY	0.2
24)	5-069 C. BREWER	0.2
25)	5-068 ONTARIO ABORIGINAL HOUSING	0.2
26)	5-067 A. TUTOLO	0.2
27)	5-166 S. METCALFE	2.0
28)	5-052 D. & P. BLANCHARD	0.2
29)	5-161-90 S. & T. GRUMB	1.1
30)	5-156 J. & S. LANE	0.4
31)	5-160-50 R. & D. DICKHOUT	1.4

**PLAN** SCALE 1:1,500

**PLAN LEGEND**



**CARTER DRAIN**

**Haldimand County**

Drainage Superintendent:	No.	REVISIONS	DATE
KRIS FRANKLIN			
905 - 318 - 5932			

Drawn By: UE	Field Book	JOB No.	Drawing No.
Date: APR 16, 2018	B-165	20140	1 of 2

**PLAN & DETAILS**

**SPRIET ASSOCIATES LIMITED**  
LONDON CONSULTING ENGINEERS

155 YORK STREET - LONDON (519) 672-4100 - 166A 1A8