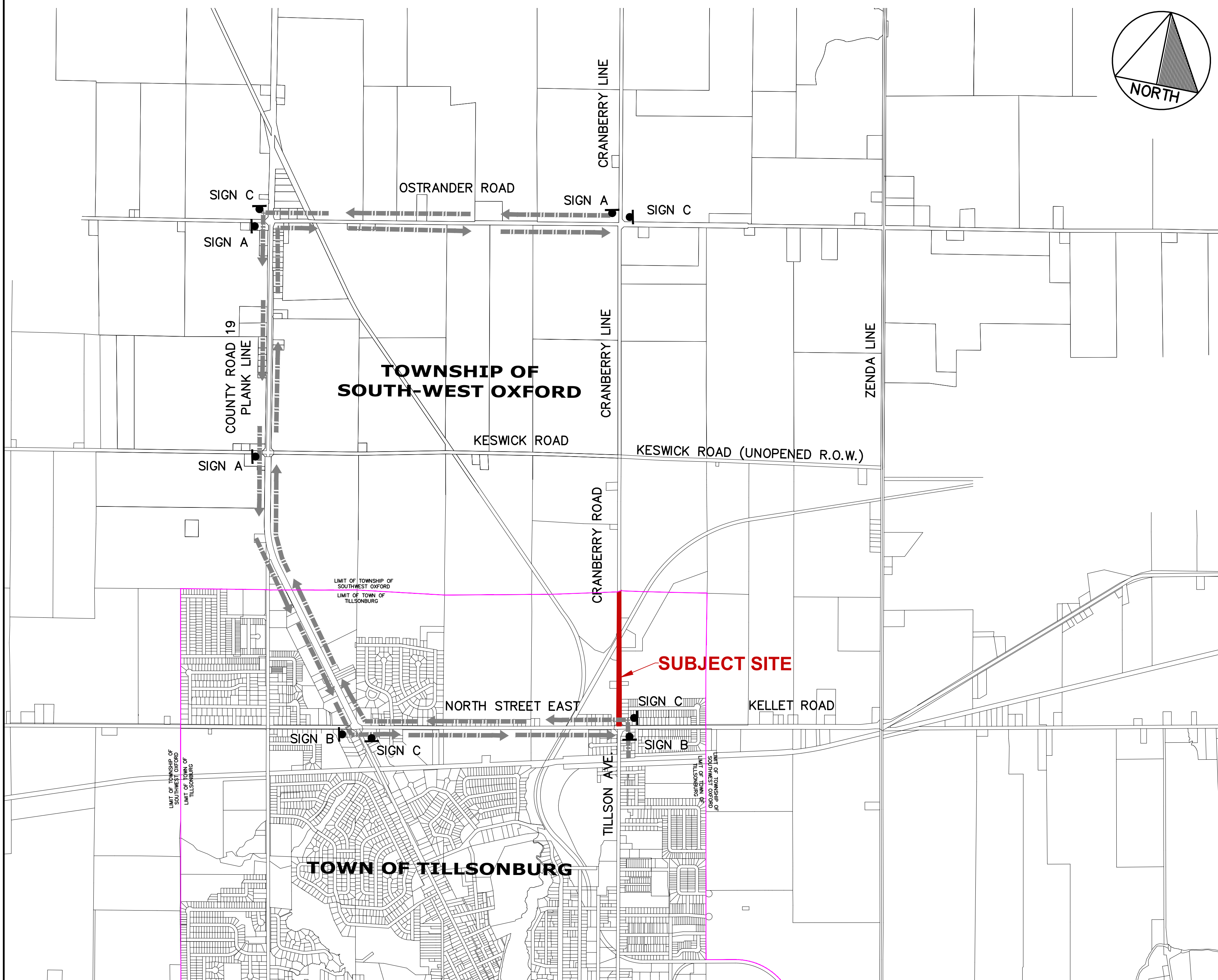


CRANBERRY ROAD RECONSTRUCTION

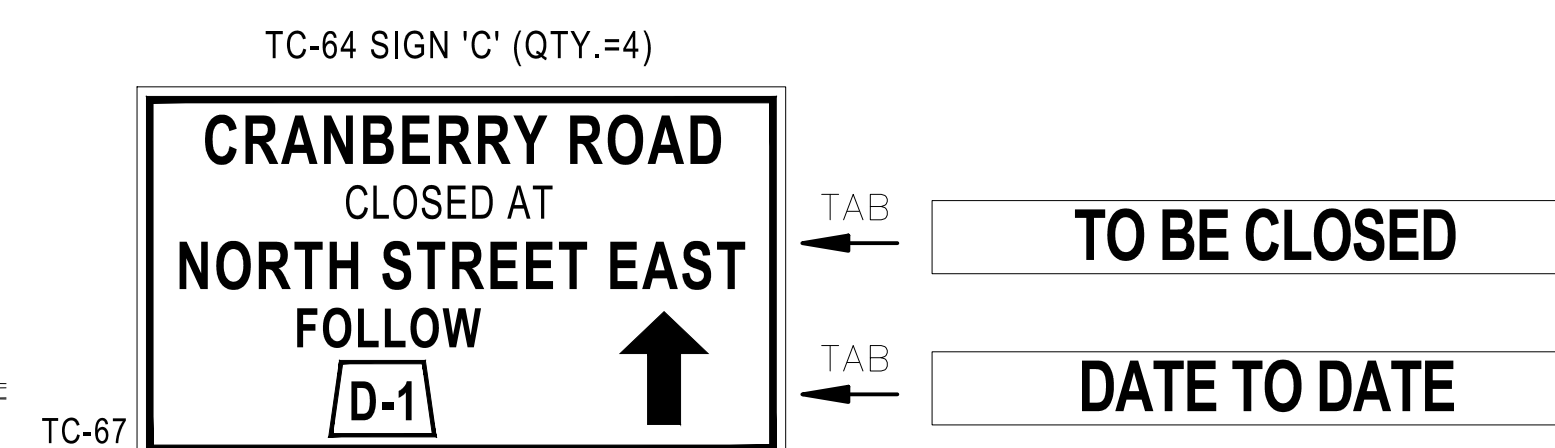
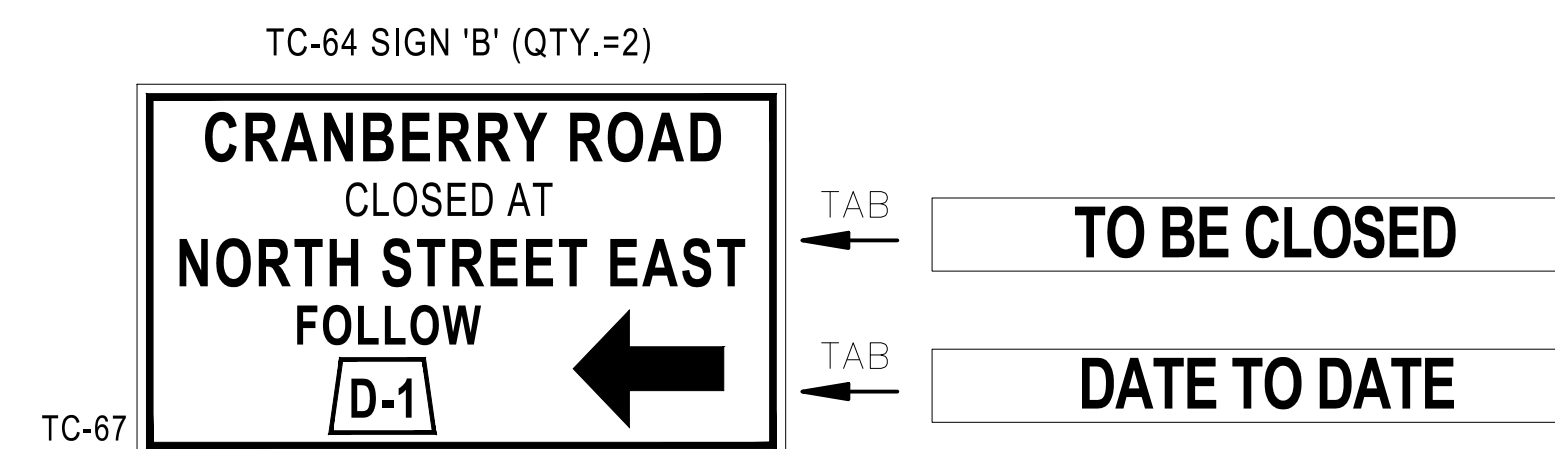
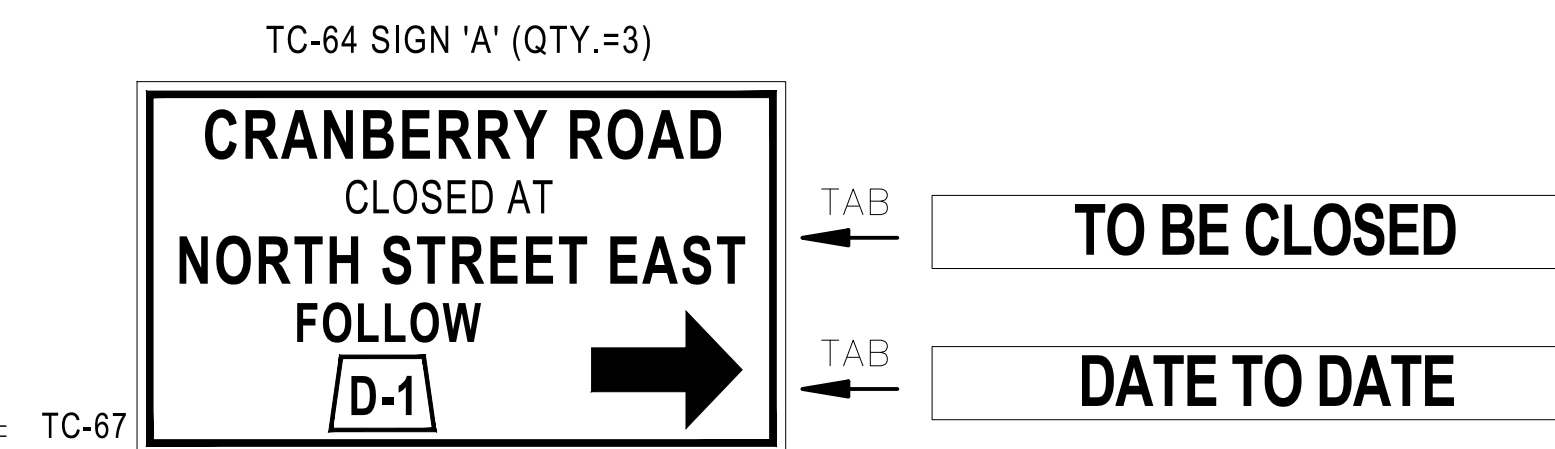
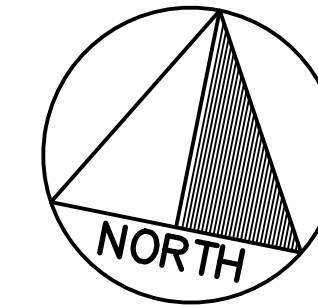
RFT20XX-XXX

TOWN OF TILLSONBURG



KEY PLAN / DETOUR PLAN

SCALE = 1:15,000



TRAFFIC CONTROL NOTES

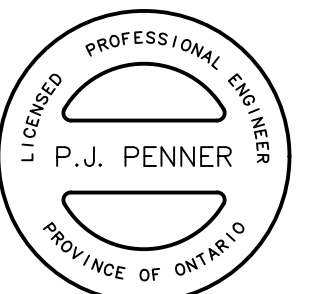
1. FULL CLOSURE OF CRANBERRY ROAD WILL BE PERMITTED IN ACCORDANCE WITH THE KEY PLAN/DETOUR FIGURE ON THIS DRAWING AND THE NOTES AND DETAILS ON REMOVALS PLAN.
2. THE CONTRACTOR SHALL PROVIDE TWO WEEKS (10 BUSINESS DAYS) NOTICE TO THE ENGINEER, PRIOR TO CLOSING THE ROAD TO THROUGH TRAFFIC.
3. NOTICE OF ROAD CLOSURE SIGNS A, B AND C (THIS SHEET) SHALL BE POSTED MINIMUM TWO WEEKS (10 BUSINESS DAYS) PRIOR TO CLOSING THE ROAD.
4. A MAXIMUM WINDOW OF 90 WORKING DAYS WILL BE PROVIDED FOR FULL ROAD CLOSURE TO THROUGH TRAFFIC.
5. TRAFFIC CONTROL/SIGNAGE SHALL BE IN ACCORDANCE WITH BOOK 7 – TEMPORARY CONDITIONS, ONTARIO TRAFFIC MANUAL. DETOUR ROUTE SIGNAGE SHALL BE CHECKED AT MINIMUM TWICE DAILY BY THE CONTRACTOR. ONCE IN MORNING AND ONCE AT THE END OF EACH WORKING DAY(MIN).
6. A DETAILED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 10 BUSINESS DAYS PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL CONTROL DUST AND MAINTAIN GRAVEL SURFACES UNTIL SURFACE RESTORATION IS COMPLETED. PAVED AREAS SHALL BE SWEEP AS REQUIRED DURING AND UPON COMPLETION OF THE PROJECT.

SCOPE OF WORK

CRANBERRY ROAD – FROM NORTH STREET EAST TO TOWN LIMITS

- CORRUGATED METAL ARCH CULVERT EXTENSION
- INSTALLATION OF WATERMAIN, SANITARY AND STORM SEWERS AND APPLICABLE SERVICES.
- RESTORATION AND ROADWORKS

LIST OF DRAWINGS	
DWG#	DESCRIPTION
1	COVER PAGE AND DETOUR PLAN
2	EXTERNAL STORM DRAINAGE AREAS
3	STORM DRAINAGE SYSTEM AND AREAS
4	EXTERNAL SANITARY DRAINAGE AREAS
5	SANITARY DRAINAGE SYSTEM AND AREAS
6	CRANBERRY ROAD - 0+070 TO 0+280
7	CRANBERRY ROAD - 0+290 TO 0+480
8	CRANBERRY ROAD - 0+490 TO 0+690
9	CRANBERRY ROAD - 0+700 TO 0+890
10	SWANCE DRAIN
11	WATERMAIN DETAILS
12	SEWER & SERVICING DETAILS
13	GENERAL NOTES & MISCELLANEOUS DETAILS
14	SECTIONS STA 0+120 TO 0+190
15	SECTIONS STA 0+200 TO 0+260
16	SECTIONS STA 0+265 TO 0+320
17	SECTIONS STA 0+330 TO 0+400
18	SECTIONS STA 0+410 TO 0+480
19	SECTIONS STA 0+490 TO 0+570
20	SECTIONS STA 0+580 TO 0+670
21	SECTIONS STA 0+680 TO 0+760
22	SECTIONS STA 0+770 TO 0+860
23	SECTIONS STA 0+870 TO 0+880
24	LINE PAINTING & SIGNAGE PLAN
25	RELOCATIONS, EROSION CONTROL & TREE PROTECTION



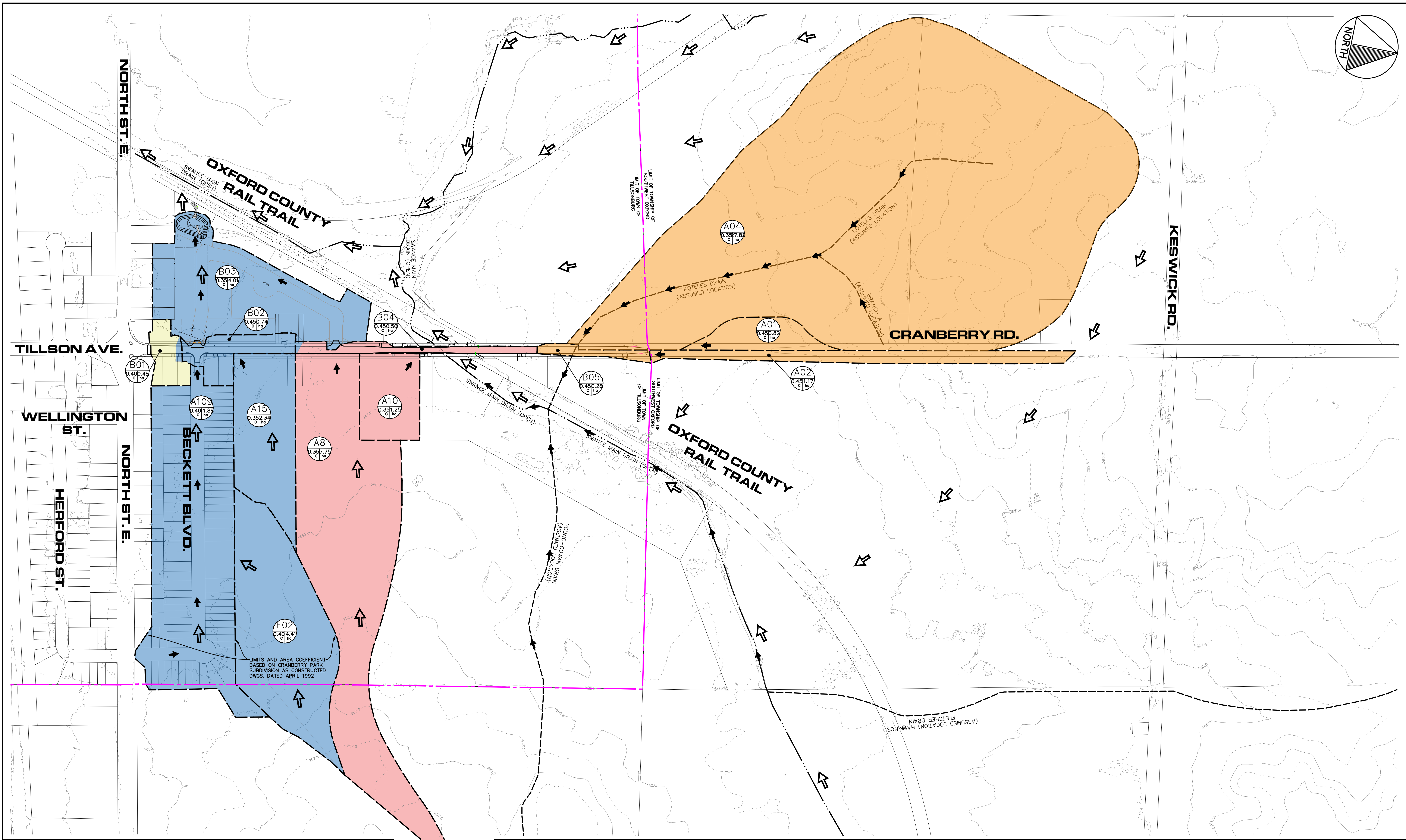
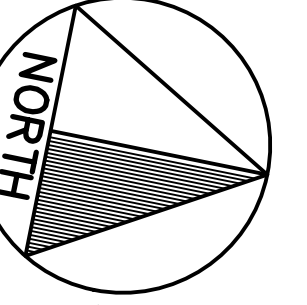
No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC



Cyril J. Demeyere Limited
P.O. Box 460, 251 Broadway
Tillsonburg, Ontario, N4G 4H8
Tel: 519-688-1000
866-302-9886
Fax: 519-842-3235
cjd@cjdeng.com

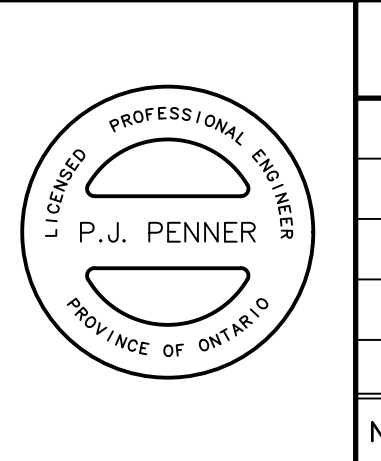
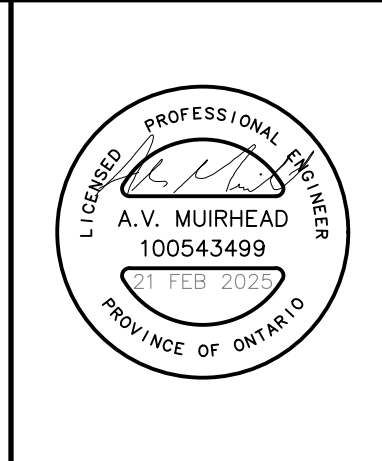
22014

02 AUG 2022



LIMITS AND AREA COEFFICIENT
BASED ON CRANBERRY PARK
SUBDIVISION AS CONSTRUCTED
DWGS. DATED APRIL 1992

LEGEND	
	PROPOSED STORM MANHOLE/SEWER
	EXISTING STORM MANHOLE/SEWER
	PHASE 1 INTERNAL STORM AREA
	EXISTING EXTERNAL STORM AREA
	MAJOR OVERLAND FLOW ROUTE
	MINOR STORM SEWER FLOW ROUTE
	TRIBUTARY AREA CONTRIBUTING TO SWANCE MAIN DRAIN WEST OF CRANBERRY ROAD
	TRIBUTARY AREA CONTRIBUTING TO NORTH STREET EAST STORM SYSTEM
	TRIBUTARY AREA CONTRIBUTING TO AMBKOT CRESCENT SWM POND
	TRIBUTARY AREA CONTRIBUTING TO SWANCE DRAIN WEST OF CRANBERRY ROAD



METRIC H. SCALE 1:2500

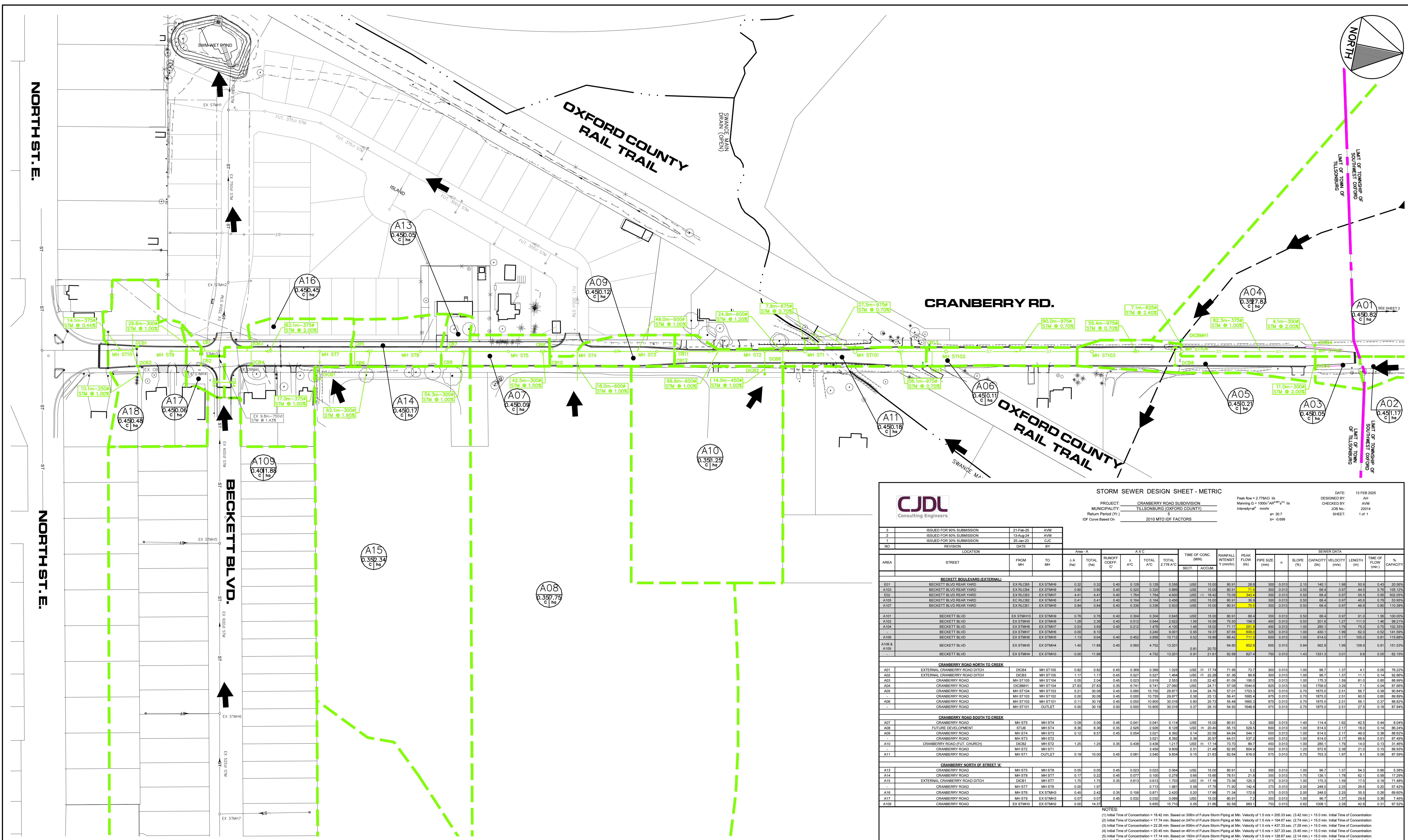
No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

CJDL
Consulting Engineers

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Fax: 519-842-3235
cjd@cjdeng.com

CRANBERRY ROAD RECONSTRUCTION RFT20XX-XXX TOWN OF TILLSONBURG EXTERNAL STORM DRAINAGE AREAS	
DESIGN BY: AVM	DRAWN BY: AK/GD
CHECKED BY: PJP	
PROJECT NO. 22014	SURVEY BY: TFM
DATE: 02 AUG 2022	
DRAWING No.	



STORM SEWER DESIGN SHEET - METRIC

CJDL Consulting Engineers
 PROJECT: CRANBERRY ROAD SUBDIVISION
 MUNICIPALITY: TILLSONBURG (OXFORD COUNTY)
 Return Period (Yr.): 5
 IDF Curve Based On: 2010 MTO IDF FACTORS

Peak Flow = 2.778 CFS
 Manning n = 0.015 (SPCC)¹ / 0.016 (ASPH)²
 Intensity = 1.0 mm/hr
 n = 0.017
 n = 0.016

DATE: 13 FEB 2025
 DESIGNED BY: AV
 CHECKED BY: AV
 JOB NO.: 22014
 SHEET: 1 of 1

NO	REVISION	DATE	BY	AREA		TOTAL		RUNOFF COEFF.	TOTAL		TIME OF CONC. (min)	RAINFALL		PEAK FLOW (l/s)	PIPE SIZE (mm)	SLOPE (%)	CAPACITY (l/s)	VELOCITY (m/s)	LENGTH (m)	TIME OF FLOW (min)	% CAPACITY	
				A	X/C	A/C	X/C		SEC.	ACCUM.												
BECKETT BOULEVARD (EXTERNAL)																						
A01	BECKETT BLVD REAR YARD	EX ST105	EX ST105	0.32	0.32	0.40	0.128	0.128	0.356	USE	15.00	80.91	28.8	300	0.013	2.10	140.1	1.98	80.9	0.43	20.92%	
A02	BECKETT BLVD REAR YARD	EX ST104	EX ST104	0.60	0.60	0.40	0.240	0.240	0.696	USE	15.00	80.91	71.8	300	0.013	0.60	68.4	0.97	44.4	0.74	105.32%	
A03	BECKETT BLVD REAR YARD	EX ST103	EX ST103	4.41	4.41	0.40	1.764	1.764	4.900	USE	11.18	44.9	343.4	300	0.013	0.50	68.4	0.97	55.5	0.95	802.00%	
A04	BECKETT BLVD REAR YARD	EX ST102	EX ST102	0.41	0.41	0.40	0.164	0.164	0.456	USE	15.00	80.91	38.9	300	0.013	0.50	68.4	0.97	45.6	0.78	53.90%	
A05	BECKETT BLVD REAR YARD	EX ST101	EX ST101	0.84	0.84	0.40	0.336	0.336	0.932	USE	15.00	80.91	79.3	300	0.013	0.50	68.4	0.97	48.8	0.80	110.39%	
A06	BECKETT BLVD	EX ST100	EX ST100	0.76	0.76	0.40	0.304	0.304	0.845	USE	15.00	80.91	68.4	300	0.013	0.50	68.4	0.97	91.0	1.56	100.00%	
A07	BECKETT BLVD	EX ST99	EX ST99	1.28	1.28	0.40	0.512	0.512	1.444	USE	15.00	80.91	188.0	450	0.013	0.50	201.6	1.27	111.0	1.46	88.21%	
A08	BECKETT BLVD	EX ST98	EX ST98	0.53	0.53	0.40	0.212	0.212	0.593	USE	11.18	44.9	291.0	450	0.013	1.00	285.1	1.79	75.0	0.70	102.30%	
A09	BECKETT BLVD	EX ST97	EX ST97	0.00	0.00	0.40	0.000	0.000	0.000	USE	19.37	87.66	609.0	525	0.013	1.00	430.1	1.99	62.0	0.52	141.89%	
A10	BECKETT BLVD	EX ST96	EX ST96	1.13	1.13	0.40	0.452	0.452	1.266	USE	15.00	80.91	111.3	600	0.013	1.00	614.0	2.17	105.0	0.81	115.88%	
A109 & A108	BECKETT BLVD	EX ST104	EX ST104	1.40	11.88	0.40	0.560	4.752	13.201	0.81	20.70	84.80	853.0	600	0.013	0.84	862.8	1.96	106.9	0.91	151.53%	
A107	BECKETT BLVD	EX ST104	EX ST104	0.00	11.88	0.40	0.000	4.752	13.201	0.81	20.70	84.80	853.0	600	0.013	1.43	1331.3	3.01	9.8	0.05	62.10%	
CRANBERRY ROAD NORTH TO CREEK																						
A01	EXTERNAL CRANBERRY ROAD DITCH	DCB84	MH ST105	0.82	0.82	0.45	0.369	0.369	1.025	USE	17.74	71.96	73.7	300	0.013	1.00	66.7	1.37	4.1	0.05	78.25%	
A02	EXTERNAL CRANBERRY ROAD DITCH	DCB83	MH ST104	1.17	1.17	0.45	0.527	0.527	1.484	USE	22.28	89.8	80.8	300	0.013	1.00	66.7	1.37	11.1	0.14	62.88%	
A03	CRANBERRY ROAD	MH ST105	MH ST104	0.05	2.04	0.45	0.023	0.919	2.553	0.05	24.71	97.08	154.8	375	0.013	1.00	275.3	1.59	81.0	0.85	89.90%	
A04	CRANBERRY ROAD	DCB84	MH ST104	27.83	27.83	0.35	9.741	9.741	27.660	USE	24.71	97.08	154.8	825	0.013	1.50	1758.0	3.39	7.1	0.04	87.86%	
A05	CRANBERRY ROAD	MH ST104	MH ST103	0.21	30.05	0.45	0.095	10.755	29.877	0.04	24.75	97.01	170.3	375	0.013	0.70	1875.0	2.51	50.7	0.38	66.84%	
A06	CRANBERRY ROAD	MH ST103	MH ST102	0.00	30.08	0.45	0.000	10.755	29.877	0.38	25.13	96.41	1685.4	375	0.013	0.70	1875.0	2.51	90.0	0.90	89.89%	
A07	CRANBERRY ROAD	MH ST102	MH ST101	0.11	30.19	0.45	0.050	10.805	30.016	0.60	25.73	95.48	1655.3	375	0.013	0.70	1875.0	2.51	96.1	0.37	88.82%	
A08	CRANBERRY ROAD	MH ST101	OUTLET	0.00	30.19	0.00	0.000	10.805	30.016	0.37	26.10	94.93	1648.8	375	0.013	0.70	1875.0	2.51	27.5	0.16	87.94%	
CRANBERRY ROAD SOUTH TO CREEK																						
A07	CRANBERRY ROAD	MH ST5	MH ST4	0.00	0.00	0.45	0.000	0.000	0.000	USE	15.00	80.91	52	300	0.013	1.40	114.4	1.63	42.5	0.44	8.54%	
A08	FUTURE DEVELOPMENT	ST18	MH ST4	8.36	8.36	0.35	2.926	2.926	8.128	USE	20.45	80.91	52.0	600	0.013	1.00	614.0	2.17	15.0	0.16	82.24%	
A09	CRANBERRY ROAD	MH ST4	MH ST3	0.12	8.57	0.45	0.054	3.021	8.362	0.14	20.58	84.84	54.1	600	0.013	1.00	614.0	2.17	49.0	0.38	88.62%	
A10	CRANBERRY ROAD	MH ST3	MH ST2	0.48	1.00	0.35	0.170	0.350	0.980	0.38	20.97	84.01	53.2	600	0.013	1.00	614.0	2.17	66.6	0.51	87.62%	
A11	CRANBERRY ROAD (FUT. CHURCH)	DCB82	MH ST2	1.20	1.20	0.30	0.450	0.450	1.211	USE	17.14	69.7	89.7	450	0.013	1.00	285.1	1.79	14.0	0.13	31.45%	
A10	CRANBERRY ROAD	MH ST2	MH ST1	3.459	9.069	0.51	21.48	62.95	60.94	0.013	1.20	672.6	2.38	21.0	62.5	0.013	1.20	672.6	2.38	21.0	0.15	89.50%
A11	CRANBERRY ROAD	MH ST1	OUTLET	0.18	10.00	0.45	0.081	3.540	9.834	0.15	21.63	82.64	816.0	675	0.013	0.70	703.3	1.97	9.1	0.08	87.59%	
CRANBERRY NORTH OF STREET 'A'																						
A13	CRANBERRY ROAD	MH ST5	MH ST8	0.05	0.05	0.45	0.023	0.023	0.064	USE	15.00	80.91	5.2	300	0.013	1.00	66.7	1.37	54.3	0.66	5.38%	
A14	CRANBERRY ROAD	MH ST8	MH ST7	0.17	0.23	0.45	0.077	0.100	0.278	0.06	15.68	61.8	21.8	300	0.013	1.70	126.1	1.78	62.1	0.58	17.29%	
A15	EXTERNAL CRANBERRY ROAD DITCH	DCB81	MH ST7	1.75	1.75	0.35	0.613	0.613	1.703	USE	17.18	70.58	125.3	1.00	175.3	1.59	17.0	0.15	17.44%			
A16	CRANBERRY ROAD	MH ST7	MH ST6	0.00	1.97	0.58	0.107	1.861	5.176	0.00	14.24	54.0	375	0.013	2.00	248.0	2.25	26.6	0.20	57.42%		
A17	CRANBERRY ROAD	MH ST6	EX ST104	0.45	2.42	0.35	0.158	0.871	2.420	0.20	17.98	71.34	172.8	375	0.013	2.00	248.0	2.25	35.5	0.26	69.62%	
A17	CRANBERRY ROAD	MH ST9	EX ST104	0.07	0.07	0.45	0.032	0.032	0.096	USE	15.00	80.91	7.2	300	0.013	1.00	66.7	1.37	29.6	0.36	2.45%	
A108	CRANBERRY ROAD	EX ST103	EX ST102	0.00	14.37	0.00	0.000	5.655	15.710	0.05	21.66	82.58	983.1	750	0.013	0.82	1006.1	2.28	42.8	0.31	97.52%	

LEGEND

- ST (dashed green line) - PROPOSED STORM MANHOLE/SEWER
- ST (dashed black line) - EXISTING STORM MANHOLE/SEWER
- ST (solid green line) - PHASE 1 INTERNAL STORM AREA
- ST (dashed black line) - EXISTING EXTERNAL STORM AREA
- ST (solid black line) - MAJOR OVERLAND FLOW ROUTE
- ST (dashed black line) - MINOR STORM SEWER FLOW ROUTE

PROPOSED TRIBUTARY AREA

- A11 (circle) - AREA NUMBER
- 0.450.17 (circle) - AREA IN HECTARES
- 0.351.25 (circle) - RUN-OFF COEFFICIENT

EXISTING TRIBUTARY AREA

- A11 (circle) - AREA NUMBER
- 0.450.17 (circle) - AREA IN HECTARES
- 0.351.25 (circle) - RUN-OFF COEFFICIENT

METRIC H. SCALE 1:1500

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

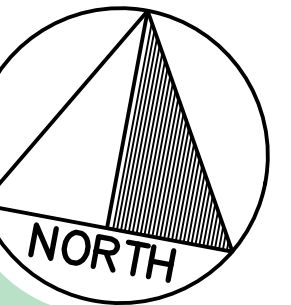
Cyril J. Demeyere Limited
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 Tillsonburg, Ontario, N4G 4H8
 Tel: 519-842-3235
 866-302-9886
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 cjdl@cjdleng.com

CJDL Consulting Engineers

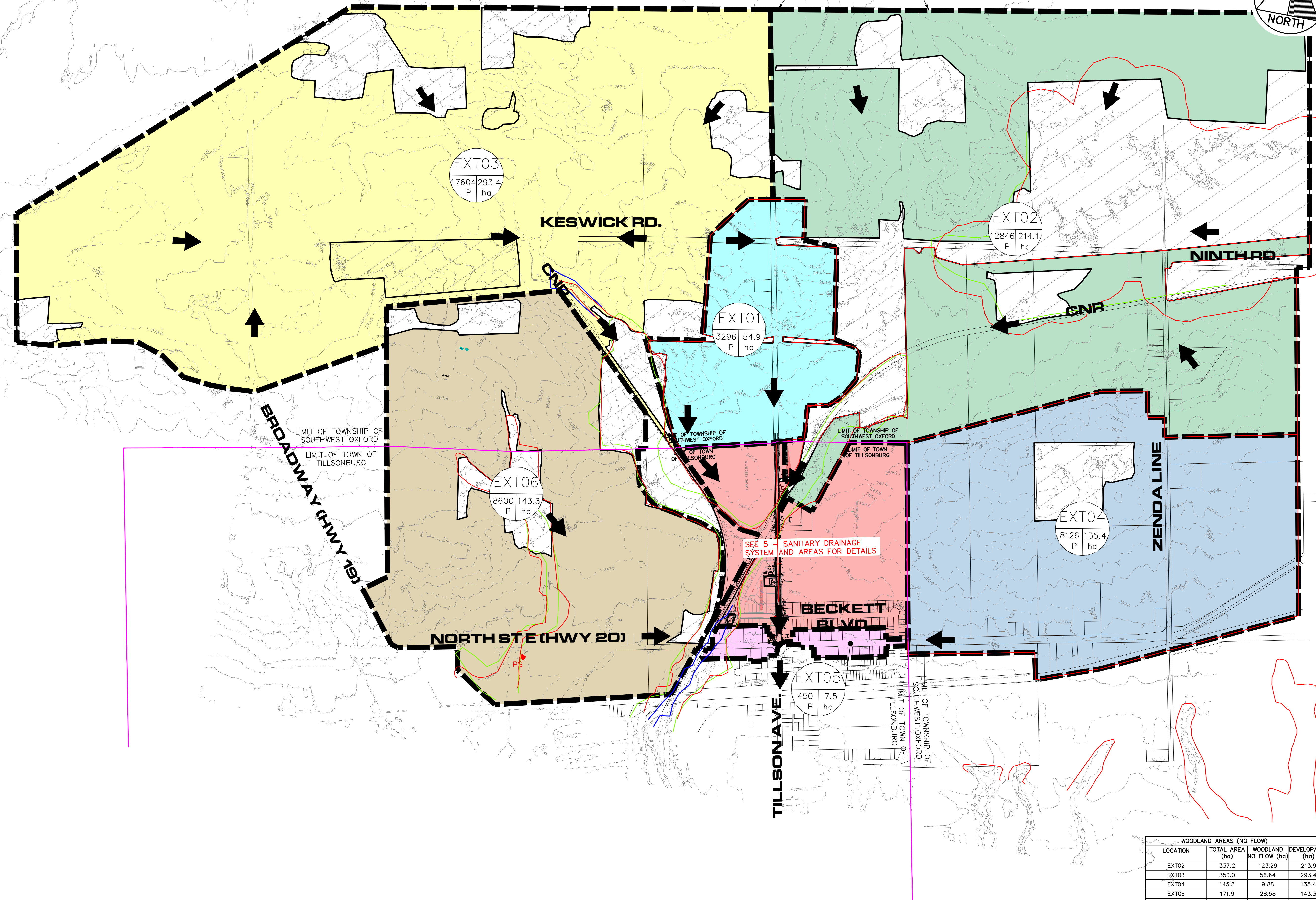
DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP

PROJECT NO. 22014 SURVEY BY: TPM DATE: 02 AUG 2022

DRAWING No. 3



ULTIMATE SAN TRIB AREA TO TILLSON AVE TRUNK SEWER



SEE 5 - SANITARY DRAINAGE SYSTEM AND AREAS FOR DETAILS

WOODLAND AREAS (NO FLOW)			
LOCATION	TOTAL AREA (ha)	WOODLAND NO FLOW (ha)	DEVELOPABLE (ha)
EXT02	337.2	123.29	213.9
EXT03	350.0	56.64	293.4
EXT04	145.3	9.88	135.4
EXT06	171.9	28.58	143.3
TOTAL	1004.4	218.4	786.0

LEGEND

- FUTURE SANITARY MANHOLE/SEWER
- EXISTING SANITARY MANHOLE/SEWER
- PROPOSED SANITARY MANHOLE/SEWER
- DIRECTION SANITARY SEWER FLOW
- REGULATORY FLOOD AND FILL LINES
- 30m SETBACK
- LPRCA REGULATION LIMITS

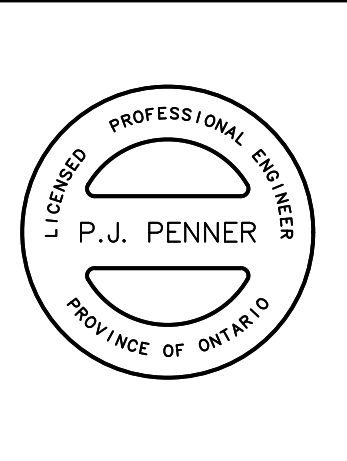
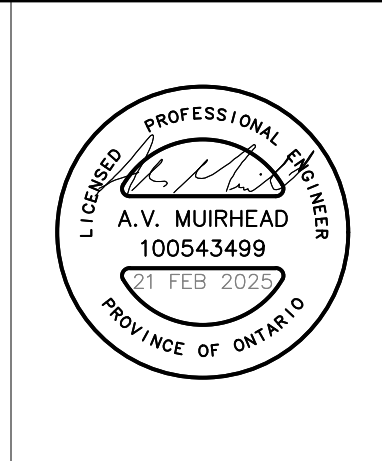
10 - TRIBUTARY AREA NUMBER

$\frac{93}{P}$ | $\frac{1.55}{ha}$ - TRIBUTARY AREA IN HECTARES

$\frac{93}{P}$ | $\frac{1.55}{ha}$ - TRIBUTARY POPULATION

WOODLAND AREAS (NO SANITARY FLOW)

- PROPOSED AREA SANITARY CONNECTED TO CRANBERRY RD. (3918P 65.3ha)
- EXT 01 SANITARY SEWER ABLE TO CONNECT TO CRANBERRY RD. (3296P 54.9ha)
- EXT 02 SANITARY SEWER ABLE TO CONNECT TO CRANBERRY RD. (1284P 213.9ha)
- EXT 03 SANITARY SEWER ABLE TO CONNECT TO CRANBERRY RD. (17604P 293.4ha)
- EXT 04 SANITARY SEWER ABLE TO CONNECT TO NORTH ST. (8126P 135.4ha)
- EXT 05 SANITARY SEWER CONNECTED TO NORTH ST. (450P 7.5ha)
- EXT 06 SANITARY SEWER ABLE TO CONNECT TO NORTH ST. (8600P 143.3ha)



METRIC H. SCALE 1:7500

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
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TOWN OF TILLSONBURG

CJDL
Consulting Engineers

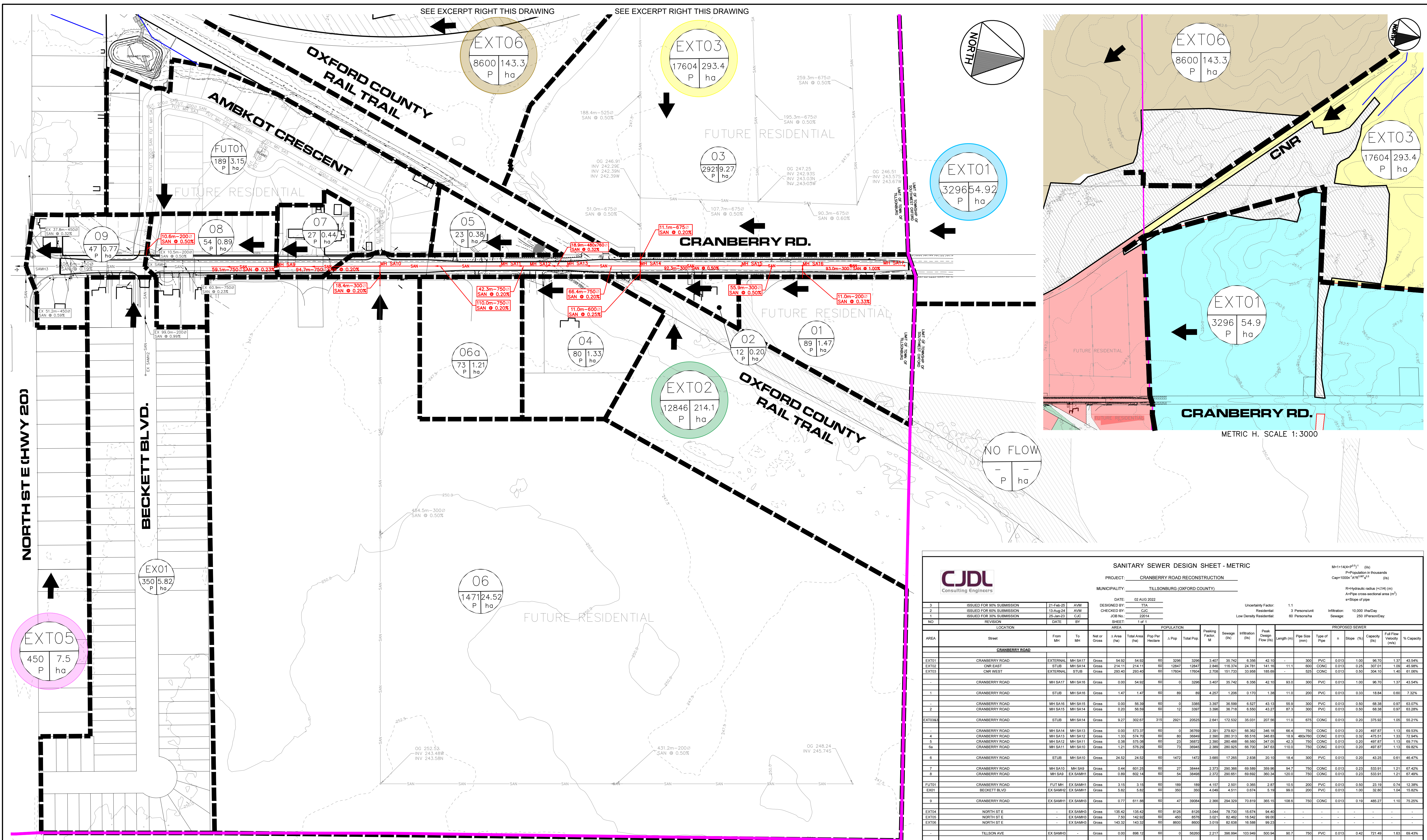
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Fax: 519-842-3235
cjd@cjdeng.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
EXTERNAL SANITARY DRAINAGE AREAS

DESIGN BY: AVM | DRAWN BY: AK/GD | CHECKED BY: PJP
SURVEY BY: TFM | DATE: 02 AUG 2022

DRAWING No. **4**

I:\ACAD\Projects\2022\2021\0404\Layouts\2014_Sanitary Tributary Areas.dwg, 2025-02-21 4:54:56 PM, cjdpc45, 1,25,4



CJDL Consulting Engineers

SANITARY SEWER DESIGN SHEET - METRIC

PROJECT: CRANBERRY ROAD RECONSTRUCTION
MUNICIPALITY: TILLSONBURG (OXFORD COUNTY)

DATE: 02 AUG 2022
DESIGNED BY: TTK
CHECKED BY: CJC
JOB No.: 22014
SHEET: 1 of 1

Uncertainty Factor: 1.1
Residential: 3 Persons/unit
Low Density Residential: 60 Persons/ha
Infiltration: 10,000 l/ha/Day
Sewage: 250 l/Person/Day

NO	REVISION	DATE	BY	AREA		POPULATION		Paving Factor	Sewage (l/s)	Infiltration (l/s)	Peak Flow (l/s)	PROPOSED SEWER												
				From MH	To MH	Net of Gross	Total Area (ha)					Δ Pop	Total Pop	Length (m)	Pipe Size (mm)	Type of Pipe	n	Slope (%)	Capacity (l/s)	Full Flow Velocity (m/s)	% Capacity			
CRANBERRY ROAD																								
EXT01				EXTERNAL	MH SA17	Gross	54.92	54.92	60	3208	2269	3.407	35.742	6.356	42.10	300	PVC	0.015	1.00	98.70	1.37	43.54%		
EXT02				STUB	MH SA14	Gross	214.11	214.11	60	12847	12847	2.848	119.374	24.791	141.16	11.1	800	CONC	0.013	0.25	307.61	1.06	45.98%	
EXT03				EXTERNAL	STUB	Gross	292.40	293.40	60	17604	17604	2.706	151.733	33.558	155.69	525	CONC	0.013	0.50	304.10	1.46	61.05%		
1				CRANBERRY ROAD	MH SA17	MH SA16	Gross	0.00	54.92	60	0	3208	3.407	35.742	6.356	42.10	93.0	300	PVC	0.013	1.00	98.70	1.37	43.54%
2				CRANBERRY ROAD	MH SA16	MH SA15	Gross	0.00	56.39	60	0	3385	3.397	36.590	6.527	43.13	55.9	300	PVC	0.013	0.50	68.38	0.97	63.07%
3				CRANBERRY ROAD	MH SA15	MH SA14	Gross	0.20	56.59	60	12	3397	3.396	36.718	6.530	43.27	87.3	300	PVC	0.013	0.50	68.38	0.97	63.28%
EXT03a				CRANBERRY ROAD	STUB	MH SA14	Gross	0.27	302.67	315	2921	2925	2.841	172.532	35.031	207.95	11.0	875	CONC	0.013	0.20	375.92	1.05	55.21%
4				CRANBERRY ROAD	MH SA14	MH SA13	Gross	0.00	573.37	60	0	30769	2.381	279.621	60.380	348.10	66.4	750	CONC	0.013	0.20	487.61	1.13	69.53%
5				CRANBERRY ROAD	MH SA13	MH SA12	Gross	1.33	574.70	60	80	30849	2.380	280.313	66.518	349.83	18.9	480/780	CONC	0.013	0.32	475.51	1.33	72.94%
6a				CRANBERRY ROAD	MH SA12	MH SA11	Gross	0.38	575.08	60	23	30872	2.380	280.488	66.560	347.05	42.3	750	CONC	0.013	0.20	487.67	1.13	69.71%
6b				CRANBERRY ROAD	MH SA11	MH SA10	Gross	1.21	576.29	60	73	30945	2.389	280.925	66.700	347.63	110.0	750	CONC	0.013	0.20	487.67	1.13	69.82%
7				CRANBERRY ROAD	STUB	MH SA10	Gross	24.52	24.52	60	1472	3.685	17.265	2.838	20.10	18.4	300	PVC	0.013	0.20	43.25	0.81	46.47%	
8				CRANBERRY ROAD	MH SA10	MH SA9	Gross	0.44	601.23	60	27	30444	2.373	290.366	66.599	350.98	94.7	750	CONC	0.013	0.23	533.91	1.21	67.42%
9				CRANBERRY ROAD	MH SA9	EX SAMH1	Gross	0.89	602.14	60	54	30444	2.372	290.651	66.692	350.34	120.0	750	CONC	0.013	0.23	533.91	1.21	67.49%
FUT01				CRANBERRY ROAD	FUT MH	EX SAMH1	Gross	3.15	3.14	60	189	189	4.157	2.501	0.365	2.87	10.0	200	PVC	0.013	0.50	23.16	0.74	12.38%
EX01				BECKETT BLVD	EX SAMH2	EX SAMH1	Gross	0.00	5.82	60	350	350	4.049	4.511	0.674	5.19	89.0	200	PVC	0.013	1.00	32.80	1.04	15.82%
9				CRANBERRY ROAD	EX SAMH1	EX SAMH0	Gross	0.77	611.88	60	47	30694	2.366	294.329	70.819	363.15	108.6	750	CONC	0.013	0.19	485.21	1.16	75.25%
EXT04				NORTH STE	EX SAMH3	Gross	135.42	135.42	60	8120	8120	3.044	78.730	15.674	94.40	-	-	-	-	-	-	-	-	
EXT05				NORTH STE	EX SAMH0	Gross	7.50	142.92	60	450	870	3.051	82.462	16.842	95.03	-	-	-	-	-	-	-	-	
EXT06				NORTH STE	EX SAMH0	Gross	143.32	143.32	60	8620	8620	3.016	82.038	16.580	93.23	-	-	-	-	-	-	-	-	
				TILSON AVE	EX SAMH0	Gross	0.00	898.12	60	0	56260	2.217	396.994	103.949	600.94	90.7	750	PVC	0.013	0.42	721.49	1.63	69.43%	

LEGEND

- SAN - FUTURE SANITARY MANHOLE/SEWER
- NWS - EXISTING SANITARY MANHOLE/SEWER
- SAN - PROPOSED SANITARY MANHOLE/SEWER
- PROPOSED SANITARY DRAINAGE AREA
- ← DIRECTION SANITARY SEWER FLOW
- ▨ WOODLAND AREAS(NO SANITARY FLOW)

10
93 | 1.55
P | ha

- TRIBUTARY AREA NUMBER
- TRIBUTARY AREA IN HECTARES
- TRIBUTARY POPULATION

- PROPOSED AREA SANITARY CONNECTED TO CRANBERRY RD. (3918P 65.3ha)
- EXT 01 SANITARY SEWER ABLE TO CONNECT TO CRANBERRY RD. (3296P 54.9ha)
- EXT 02 SANITARY SEWER ABLE TO CONNECT TO CRANBERRY RD. (12834P 213.9ha)
- EXT 03 SANITARY SEWER ABLE TO CONNECT TO CRANBERRY RD. (17604P 293.4ha)
- EXT 04 SANITARY SEWER ABLE TO CONNECT TO NORTH ST. (8126P 135.4ha)
- EXT 05 SANITARY SEWER CONNECTED TO NORTH ST. (450P 7.5ha)
- EXT 06 SANITARY SEWER ABLE TO CONNECT TO NORTH ST. (8600P 143.3ha)

METRIC H. SCALE 1:1500

TOWN OF TILLSONBURG

CJDL Consulting Engineers

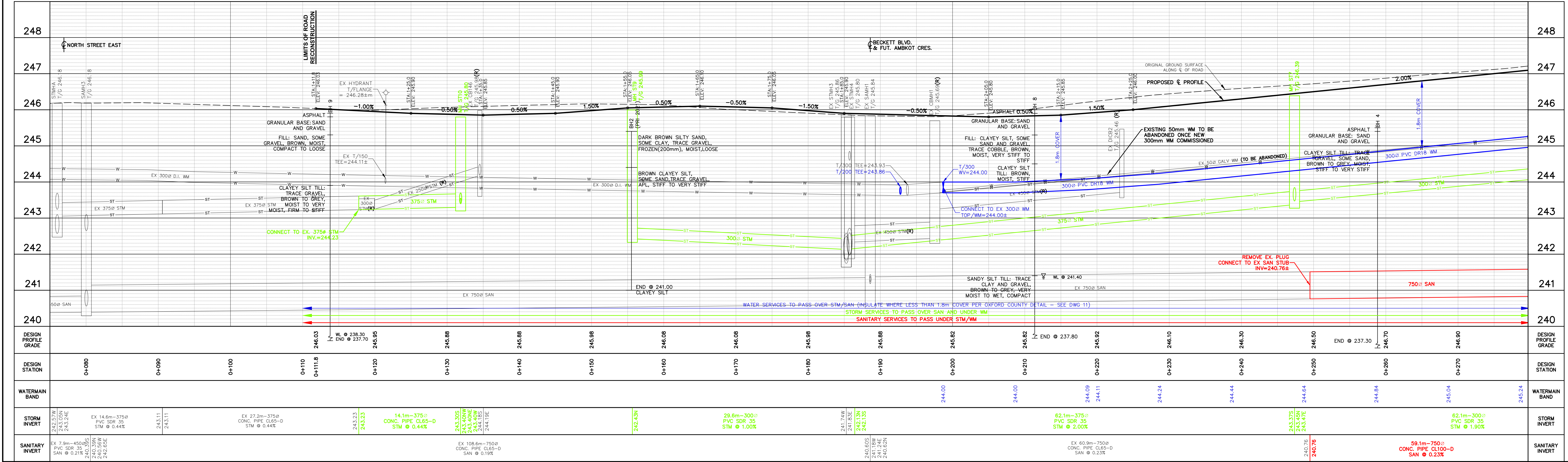
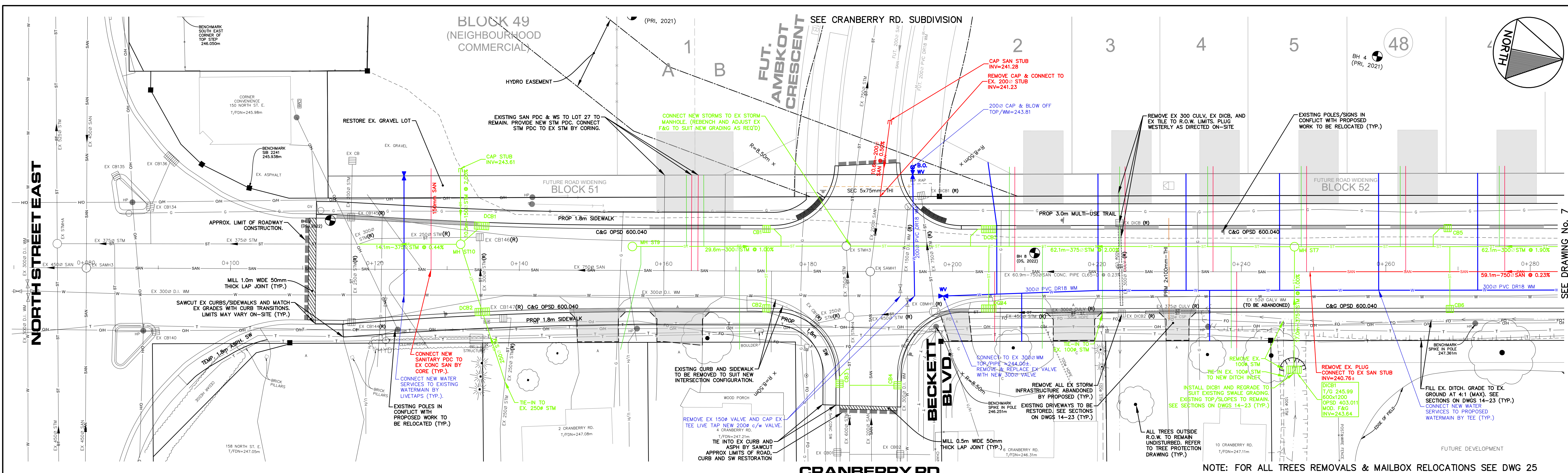
Cyril J. Demeyere Limited
P.O. Box 460, 261 Broadway
Tiltsburg, Ontario, N4G 4H8
Tel: 519-685-1000
866-302-9886
Fax: 519-842-3235
cjd@cjdle.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SANITARY DRAINAGE SYSTEM AND AREAS

DESIGN BY: AVM | DRAWN BY: AK/GD | CHECKED BY: PJP
SURVEY BY: TFM | DATE: 02 AUG 2022

DRAWING No. **5**

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC



DESIGN PROFILE GRADE	DESIGN STATION	DESIGN PROFILE GRADE	DESIGN STATION
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247	0+000	247	0+280
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LEGEND

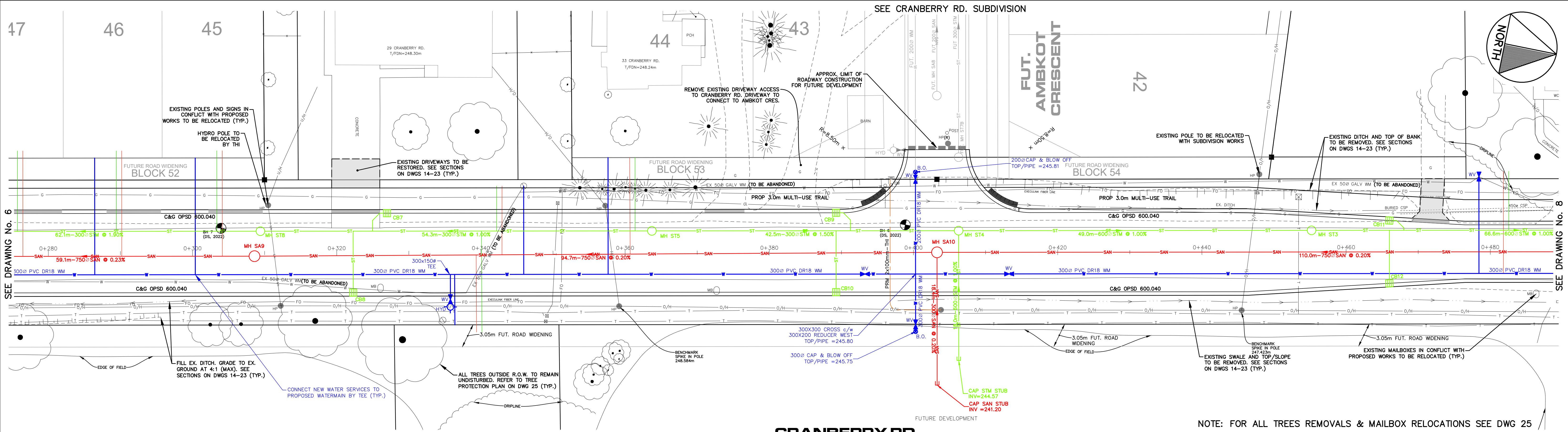
	PROPOSED SANITARY SEWER		PROPOSED, EXISTING SANITARY MANHOLE		WELL, MONITORING WELL/BOREHOLE
	EXISTING SANITARY SEWER		PROPOSED, EXISTING STORM MANHOLE		PROPOSED STREET LIGHT, TRANSFORMER, POLE
	FUTURE SANITARY SEWER		PROPOSED, EXISTING CATCHBASIN		EX. HYDRO POLE AND ANCHOR, EX. STREETLIGHT
	PROPOSED STORM SEWER		PROPOSED HYDRANT, WATER VALVE, BLOW OFF		MAJOR FLOW ROUTE
	EXISTING STORM SEWER		EXISTING TREE, PROPOSED TREES, TREE TO BE REMOVED		PROPOSED DRIVEWAYS
	FUTURE STORM SEWER		PROPOSED SURFACE DRAINAGE, EXISTING		TACTILE PLATES
	PROPOSED WATERMAIN		ORIGINAL CONTOURS PRIOR TO CONSTRUCTION (MAY NOT BE VALID NOW)		TELEPHONE & CABLE TV PEDESTALS
	EXISTING WATERMAIN		PROPOSED SWALE, EXISTING (1.5m FROM PROPERTY LINE TYPICAL)		COMMUNITY MAIL BOX
	FUTURE WATERMAIN				

	PROPOSED SANITARY MANHOLE		PROPOSED, EXISTING SANITARY MANHOLE
	PROPOSED, EXISTING STORM MANHOLE		PROPOSED, EXISTING CATCHBASIN
	PROPOSED HYDRANT, WATER VALVE, BLOW OFF		EXISTING TREE, PROPOSED TREES, TREE TO BE REMOVED
	PROPOSED SURFACE DRAINAGE, EXISTING		ORIGINAL CONTOURS PRIOR TO CONSTRUCTION (MAY NOT BE VALID NOW)
	PROPOSED SWALE, EXISTING (1.5m FROM PROPERTY LINE TYPICAL)		

	WELL, MONITORING WELL/BOREHOLE		PROPOSED STREET LIGHT, TRANSFORMER, POLE
	EX. HYDRO POLE AND ANCHOR, EX. STREETLIGHT		MAJOR FLOW ROUTE
	PROPOSED DRIVEWAYS		TACTILE PLATES
	TELEPHONE & CABLE TV PEDESTALS		COMMUNITY MAIL BOX

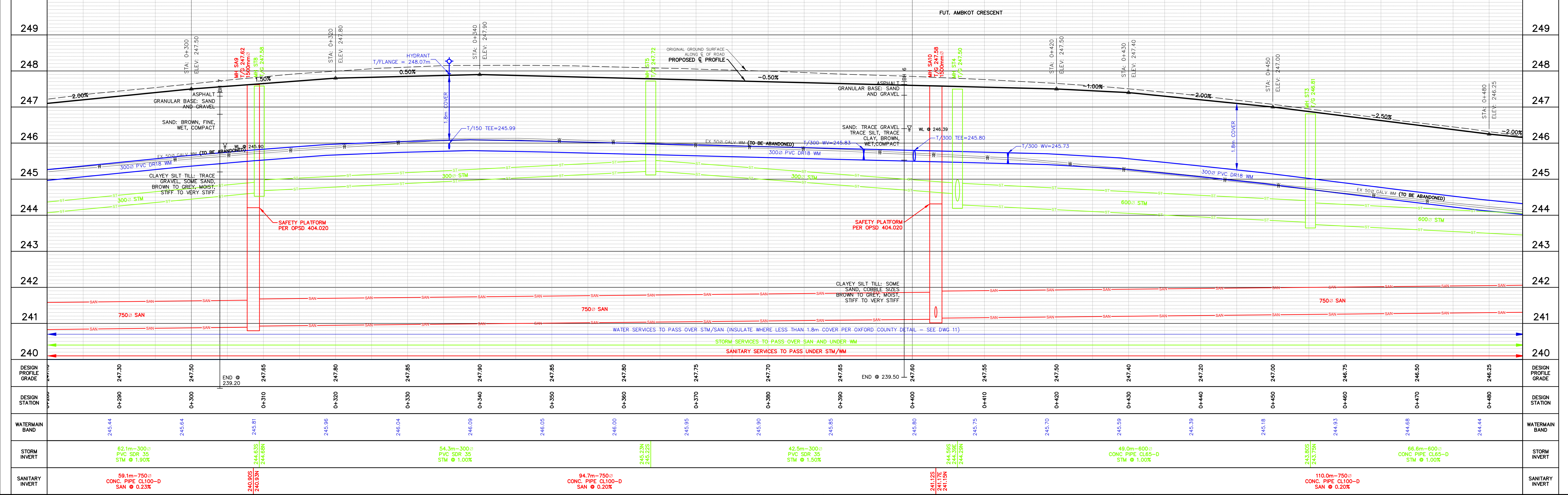
A.V. MURHEAD 100543499 01 FEB 2025 PROVINCE OF ONTARIO	P.J. PENNER PROVINCE OF ONTARIO

H. SCALE 1:250 V. SCALE 1:50		TOWN OF TILLSONBURG	
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC
No.	REVISION	DATE	BY
PROJECT NO. 22014		SURVEY BY: TFM	DATE: 02 AUG 2022
DESIGN BY: AVM		DRAWN BY: AK/GD	CHECKED BY: PJP
Cyril J. Demeyere Limited P.O. Box 460, 261 Broadway Tillsonburg, Ontario, N4G 4H8 Tel: 519-688-1000 866-302-9886 Fax: 519-842-3235 cjd@cdjeng.com		CRANBERRY ROAD RECONSTRUCTION RFT20XX-XXX TOWN OF TILLSONBURG CRANBERRY ROAD 0+070 TO 0+280	
DRAWING No.		6	

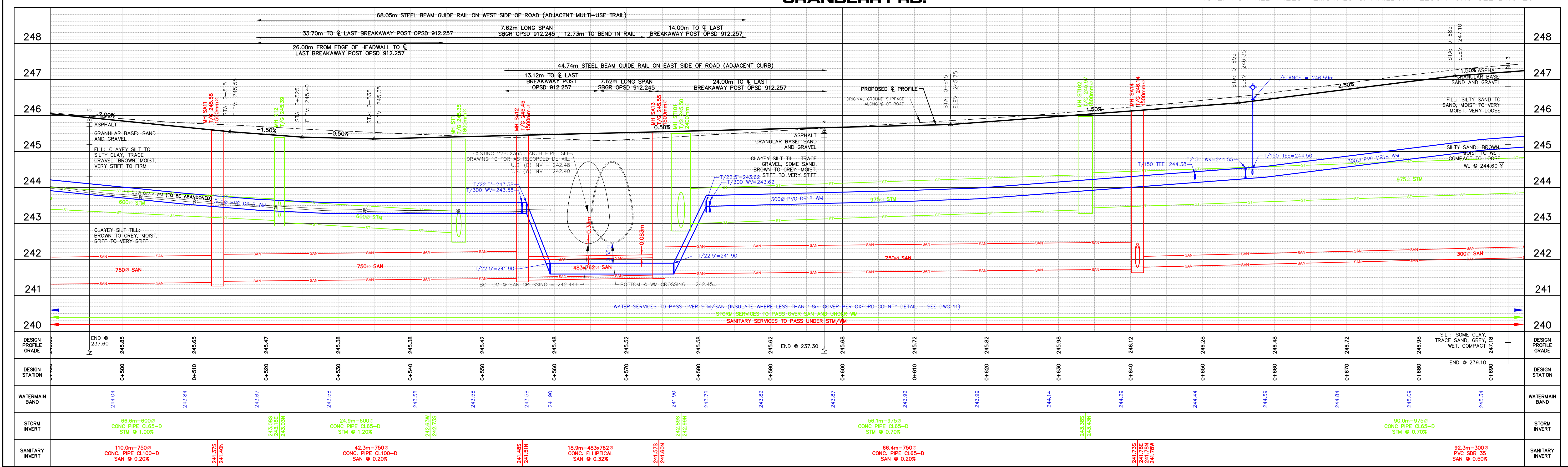
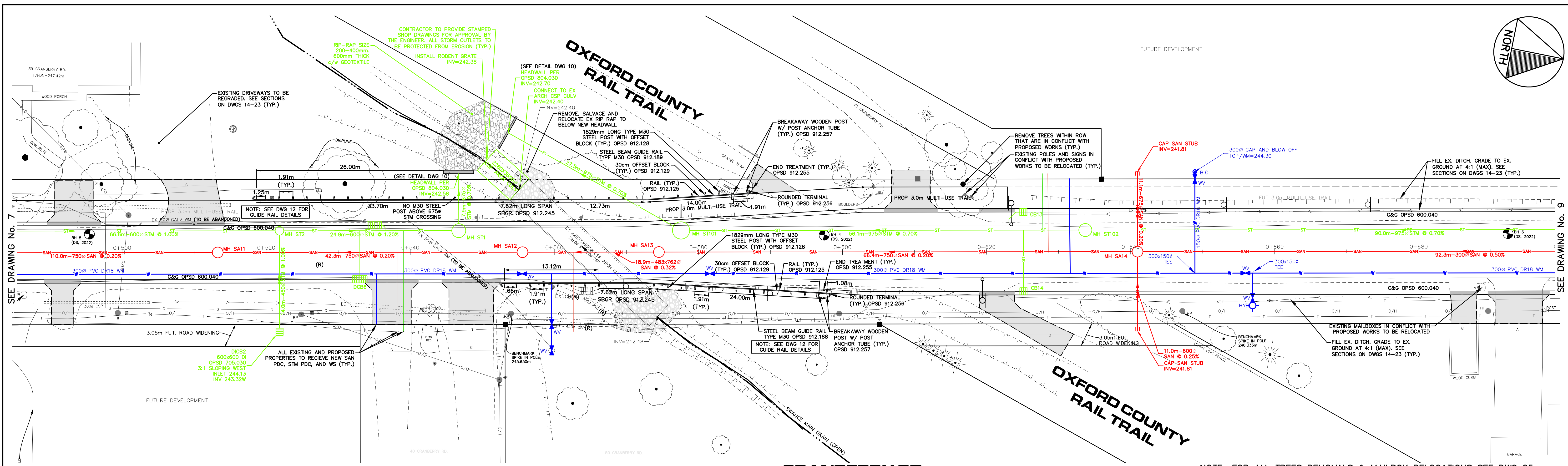
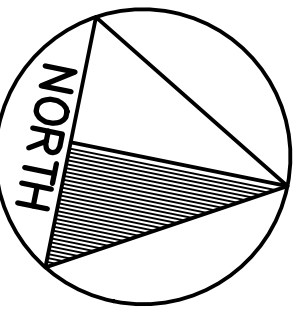


CRANBERRY RD.

NOTE: FOR ALL TREES REMOVALS & MAILBOX RELOCATIONS SEE DWG 25



<p>LEGEND</p> <ul style="list-style-type: none"> — SAN — PROPOSED SANITARY SEWER — SAN — EXISTING SANITARY SEWER — ST — PROPOSED STORM SEWER — ST — EXISTING STORM SEWER — WM — PROPOSED WATERMAIN — WM — EXISTING WATERMAIN — WM — FUTURE WATERMAIN 6 LOT NUMBER 		<ul style="list-style-type: none"> ○ PROPOSED, EXISTING SANITARY MANHOLE ○ PROPOSED, EXISTING STORM MANHOLE □ EXISTING CATCHBASIN ○ HYD, WV, B.O. PROPOSED HYDRANT, WATER VALVE, BLOW OFF ○ EXISTING TREE, PROPOSED TREES, TREE TO BE REMOVED ○ PROPOSED SURFACE DRAINAGE, EXISTING ○ ORIGINAL CONTOURS PRIOR TO CONSTRUCTION (MAY NOT BE VALID NOW) ○ PROPOSED SWALE, EXISTING (1.5m FROM PROPERTY LINE TYPICAL) 		<ul style="list-style-type: none"> ○ WELL, MONITORING WELL/BOREHOLE ○ PROPOSED STREET LIGHT, TRANSFORMER, POLE ○ EX. HYDRO POLE AND ANCHOR, EX. STREETLIGHT → MAJOR FLOW ROUTE → PROPOSED DRIVEWAYS ○ TACTILE PLATES ○ TELEPHONE & CABLE TV PEDESTALS ○ COMMUNITY MAIL BOX 		<p>H. SCALE 1:250 V. SCALE 1:50</p>		<p>TOWN OF TILLSONBURG</p> <p>CJDL Consulting Engineers</p> <p>Cyril J. Demeyere Limited P.O. Box 460, 261 Broadway Tillsonburg, Ontario, N4G 4H8 Tel: 519-688-1000 866-302-9886 Fax: 519-842-3235 cjd@cjdle.com</p>		<p>CRANBERRY ROAD RECONSTRUCTION RFT20XX-XXX TOWN OF TILLSONBURG CRANBERRY ROAD 0+290 TO 0+480</p>	
<p>3 ISSUED FOR 90% SUBMISSION 21 FEB 2025 AVM</p>		<p>2 ISSUED FOR 60% SUBMISSION 13 AUG 2024 AVM</p>		<p>1 ISSUED FOR 30% SUBMISSION 25 JAN 2023 CJC</p>		<p>DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP</p>		<p>PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022 DRAWING No.</p>			
<p>No. REVISION</p>		<p>DATE</p>		<p>BY</p>		<p>DATE: 02 AUG 2022</p>		<p>DRAWING No.</p>			



LEGEND

	PROPOSED SANITARY SEWER		PROPOSED, EXISTING SANITARY MANHOLE		WELL, MONITORING WELL/BOREHOLE
	EXISTING SANITARY SEWER		PROPOSED, EXISTING STORM MANHOLE		PROPOSED STREET LIGHT, TRANSFORMER, POLE
	FUTURE SANITARY SEWER		PROPOSED EXISTING CATCHBASIN		EX. HYDRO POLE AND ANCHOR, EX. STREETLIGHT
	PROPOSED STORM SEWER		PROPOSED HYDRANT, WATER VALVE, BLOW OFF		MAJOR FLOW ROUTE
	EXISTING STORM SEWER		EXISTING TREE, PROPOSED TREES, TREE TO BE REMOVED		PROPOSED DRIVEWAYS
	FUTURE STORM SEWER		PROPOSED SURFACE DRAINAGE, EXISTING ORIGINAL CONTOURS PRIOR TO CONSTRUCTION (MAY NOT BE VALID NOW)		TACTILE PLATES
	PROPOSED WATERMAIN		PROPOSED SWALE, EXISTING (1.5m FROM PROPERTY LINE TYPICAL)		TELEPHONE & CABLE TV PEDESTALS
	EXISTING WATERMAIN				COMMUNITY MAIL BOX
	FUTURE WATERMAIN				
	LOT NUMBER				

H. SCALE 1:250 V. SCALE 1:50

TOWN OF TILLSONBURG

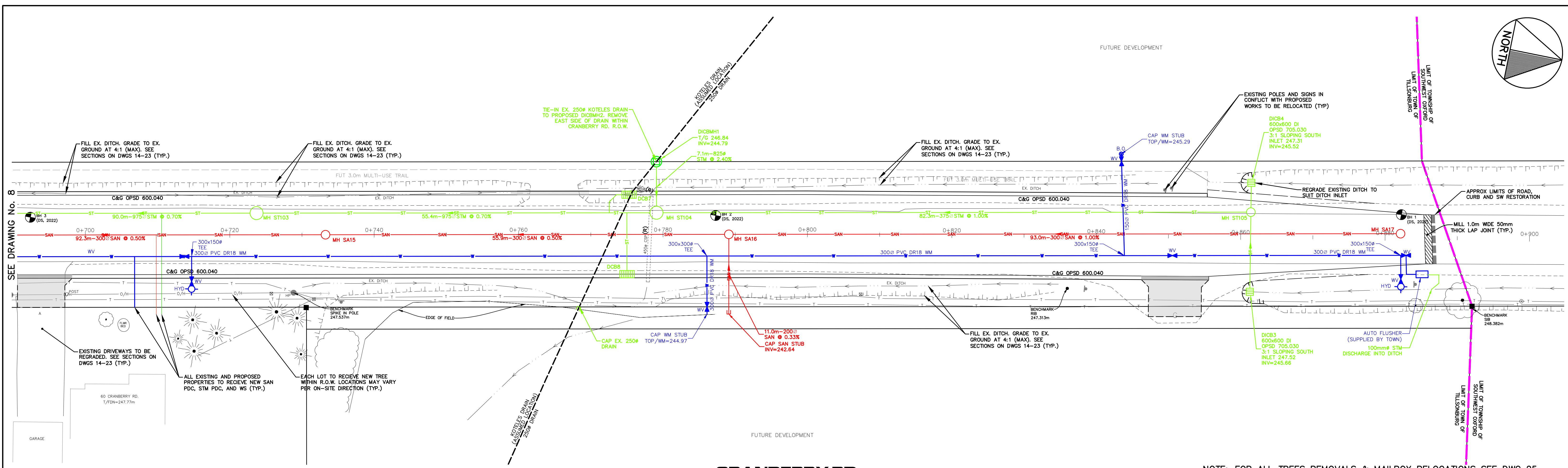
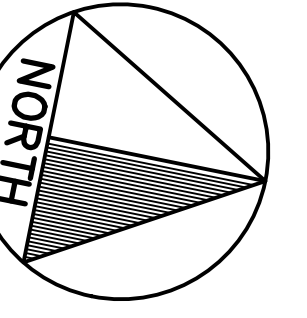
CJDL Consulting Engineers

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CRANBERRY ROAD RECONSTRUCTION
 RFT20XX-XXX
 TOWN OF TILLSONBURG
CRANBERRY ROAD
 0+490 TO 0+690

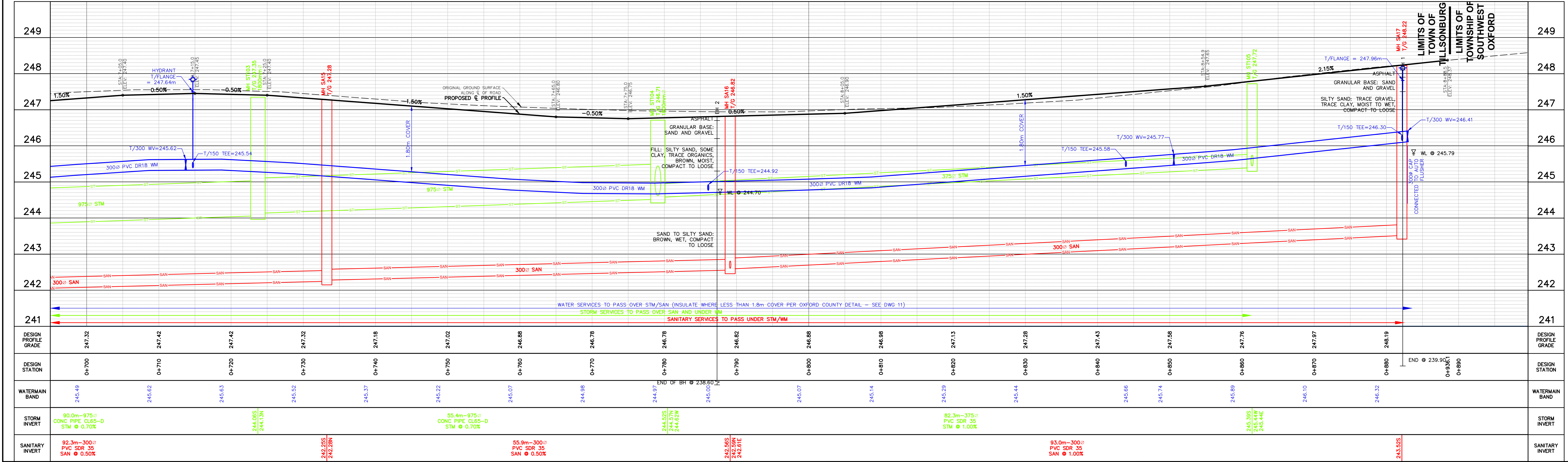
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No.	REVISION	DATE	BY

PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022 DRAWING No. **8**



CRANBERRY RD.

NOTE: FOR ALL TREES REMOVALS & MAILBOX RELOCATIONS SEE DWG 25



<p>LEGEND</p> <ul style="list-style-type: none"> — SAN — PROPOSED SANITARY SEWER — SAN — EXISTING SANITARY SEWER — SAN — FUTURE SANITARY SEWER — ST — PROPOSED STORM SEWER — ST — EXISTING STORM SEWER — ST — FUTURE STORM SEWER — W — PROPOSED WATERMAIN — W — EXISTING WATERMAIN — W — FUTURE WATERMAIN 6 LOT NUMBER 		<ul style="list-style-type: none"> ○ PROPOSED, EXISTING SANITARY MANHOLE ○ PROPOSED, EXISTING STORM MANHOLE □ PROPOSED, EXISTING CATCHBASIN ○ HYD. + WV. 88.0. PROPOSED HYDRANT, WATER VALVE, BLOW OFF ○ EXISTING TREE, PROPOSED TREES, TREE TO BE REMOVED ○ PROPOSED SURFACE DRAINAGE, EXISTING ○ ORIGINAL CONTOURS PRIOR TO CONSTRUCTION (MAY NOT BE VALID NOW) ○ PROPOSED SWALE, EXISTING (1.5m FROM PROPERTY LINE TYPICAL) 		<ul style="list-style-type: none"> ○ WELL, MONITORING WELL, BOREHOLE ○ PROPOSED STREET LIGHT, TRANSFORMER, POLE ○ EX. HYDRO POLE AND ANCHOR, EX. STREETLIGHT → MAJOR FLOW ROUTE → PROPOSED DRIVEWAYS ○ TACTILE PLATES ○ TELEPHONE & CABLE TV PEDESTALS ○ COMMUNITY MAIL BOX 		<p>H. SCALE 1:250 V. SCALE 1:50</p>		<p>TOWN OF TILLSONBURG</p>		<p>CJDL Consulting Engineers</p> <p>Cyril J. Demeyere Limited P.O. Box 460, 261 Broadway Tillsonburg, Ontario, N4G 4H8 Tel: 519-685-1000 866-302-9886 Fax: 519-842-3235 cjd@cjdle.com</p>		<p>CRANBERRY ROAD RECONSTRUCTION RFT20XX-XXX TOWN OF TILLSONBURG CRANBERRY ROAD 0+700 TO 0+890</p>																							
<p>DESIGN PROFILE GRADE</p>		<p>DESIGN STATION</p>		<p>WATERMAIN BAND</p>		<p>STORM INVERT</p>		<p>SANITARY INVERT</p>		<p>DESIGN PROFILE GRADE</p>		<p>DESIGN STATION</p>		<p>WATERMAIN BAND</p>		<p>STORM INVERT</p>		<p>SANITARY INVERT</p>																	
<p>249</p>		<p>248</p>		<p>247</p>		<p>246</p>		<p>245</p>		<p>244</p>		<p>243</p>		<p>242</p>		<p>241</p>		<p>249</p>		<p>248</p>		<p>247</p>		<p>246</p>		<p>245</p>		<p>244</p>		<p>243</p>		<p>242</p>		<p>241</p>	

WATERMANS (MODIFIED TSD-1300)

- CONTRACTOR SHALL INFORM THE TOWN OF TILLSBURG WATER/WASTEWATER DEPARTMENT A MINIMUM OF 72 HOURS IN ADVANCE OF THEIR INTENTIONS TO PERFORM WORK ON WATER INFRASTRUCTURE.
- OPERATION OF HYDRANTS AND VALVES ON THE POTABLE WATER SYSTEM BY OTHER THAN QUALIFIED WATER OPERATIONS STAFF IS PROHIBITED BY CURRENT BY-LAW. TOWN SERVICE FEES ARE PER THE CURRENT FEES BY-LAW. OXFORD COUNTY AND TOWN OF TILLSBURG WATER OPERATIONS STAFF ARE TO BE PRESENT DURING THE SWABBING, PRESSURE TESTING, CHLORINATION, FLUSHING, AND ALL CONNECTIONS OF WATERMANS.
- MINIMUM COVER OVER WATERMAN IS 1.8m. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAN AND SEWERS SHALL BE 3.0m. WHERE WATERMAN CONFLICTS WITH SEWER PIPES, DEFLECT WATERMAN HORIZONTALLY OR VERTICALLY WHILE PROVIDING A MINIMUM OF 0.5m CLEARANCE BELOW AND 0.15m ABOVE, BETWEEN WATERMAN AND SEWERS, MAINTAIN MINIMUM DEPTH AT ALL TIMES.
- WATERMAN SHALL BE INSTALLED IN BEDDING AS PER OPSD 892.010 (GRANULAR 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD 802.030 OR 802.031 CLASS 'B' (GRANULAR BEDDING MATERIAL, GRANULAR 'A' OR SELECT NATIVE COVER MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY TOWN ENGINEERING. ALTERNATIVE EMBEDMENT MATERIAL - SAN MEETING GRADATION REQUIREMENTS OF OPSD, MUNI 1004.05.07 COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY IS PERMISSIBLE WHERE NOTED IN STANDARD DETAILS.
- COPPER WATERMANS AND SERVICES 25mm TO 50mm IN DIAMETER SHALL BE EMBEDDED IN SAND 100mm ABOVE AND BELOW TO CONFORM TO OPSD/MUNI 1004.05.07. COPPER WATERMANS ARE NOT PERMITTED IN NEW CONSTRUCTION AS PER OXFORD COUNTY DESIGN GUIDELINES AND SPECIFICATIONS.
- MECHANICAL RESTRAINTS WILL BE REQUIRED ON ALL HYDRANTS, THRUST BLOCKS, PER OPSD 1103.010 AND 1103.020 MAY BE REQUIRED IN ADDITION TO STANDARD MECHANICAL RESTRAINTS WHERE SOIL CONDITIONS WARRANT AT THE TOWN'S DIRECTION.
- NEW WATERMANS TO BE PVC DR18 CL235 MINIMUM; DUCTILE IRON CEMENT MORTAR LINED CL52 AS PER THE OXFORD COUNTY DESIGN GUIDELINES AND SPECIFICATIONS.
- TRACING WIRE SHALL BE #12 AWG HIGH STRENGTH COPPER CLAD (HS-CSS) AND SHALL BE INSTALLED ON THE TOTAL LENGTH OF ALL WATERMAN AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO FLANGE BOLT. ALL SPLICES TO UTILIZE CONNECTORS AS PER OXFORD COUNTY DESIGN GUIDELINES AND SPECIFICATIONS.
- ALL WATER SERVICES SHALL BE 25mm CROSS-LINKED POLYETHYLENE OR 25mm HIGH DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEERING DEPARTMENT. WATER SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO PVC WATERMAIN.
- SERVICE TAPPINGS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0m AND A MINIMUM OF 0.6m FROM JOINTS (END OF PIPE).
- RISER PIPES ARE TO BE INSTALLED AS PER TSD-1340, AND REMOVED AS DIRECTED. SWABBING SCHEDULE TO BE SUPPLIED BY A WATER OPERATIONS FIELD REPRESENTATIVE. ALL RISERS TO BE RESTRAINED OR THRUST BLOCKED.
- ALL NEW CURB STOPS AND BOXES TO BE LOCATED AT PROPERTY LINE.

GENERAL NOTES (TSD-222)

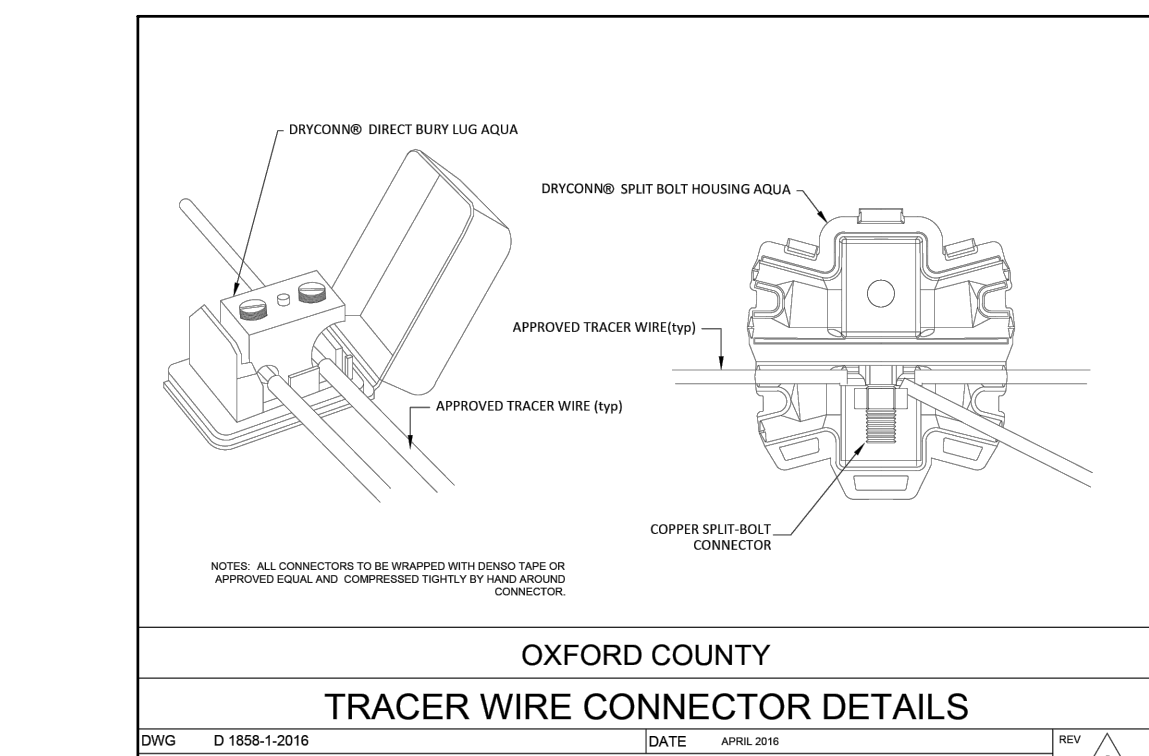
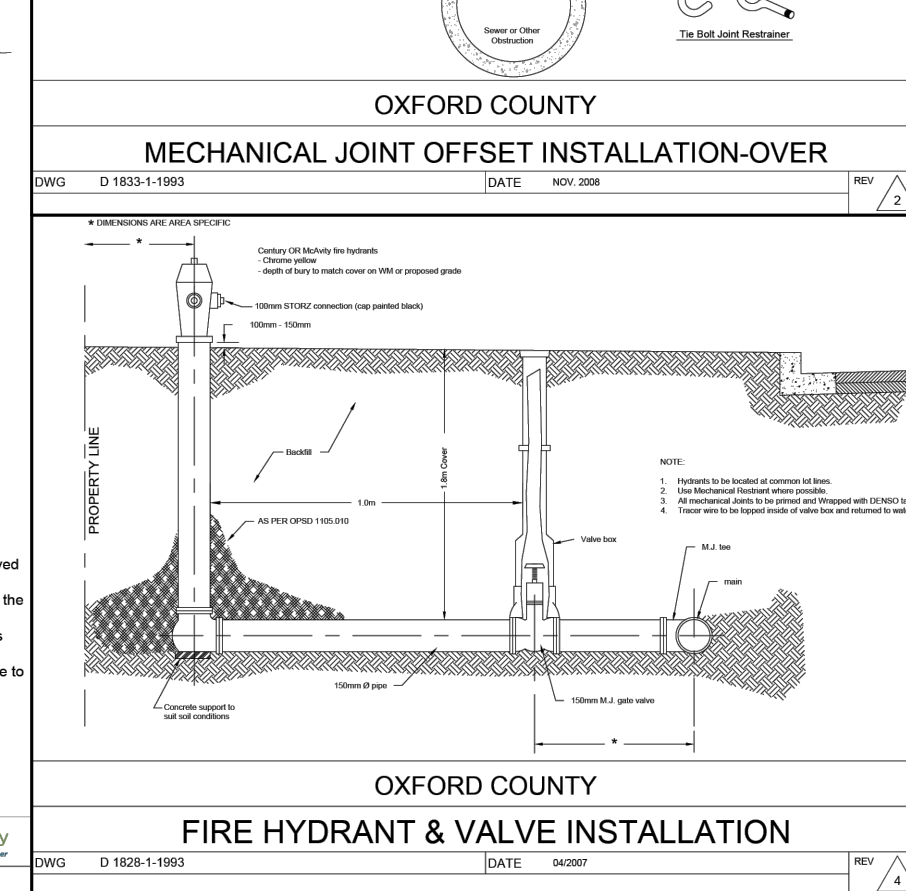
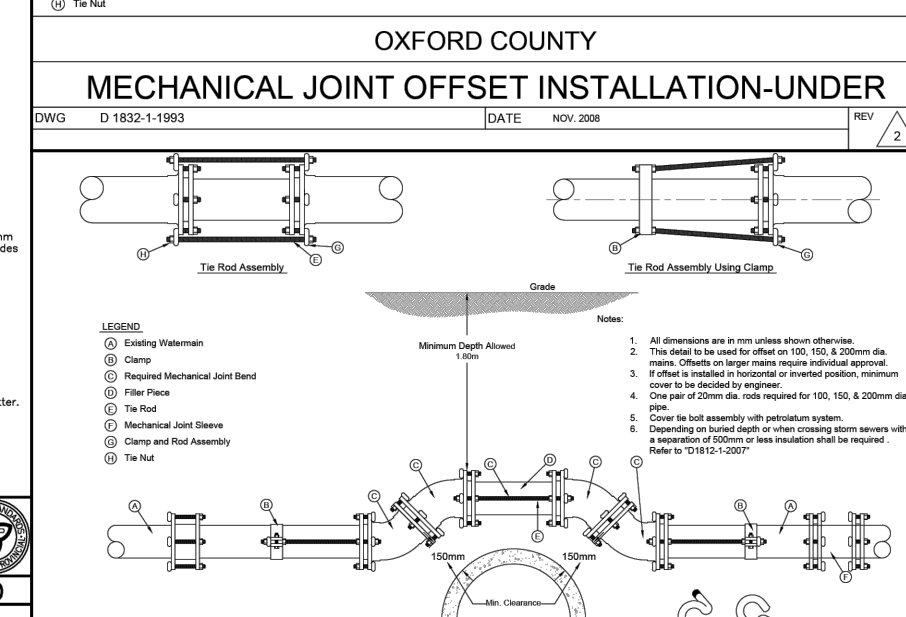
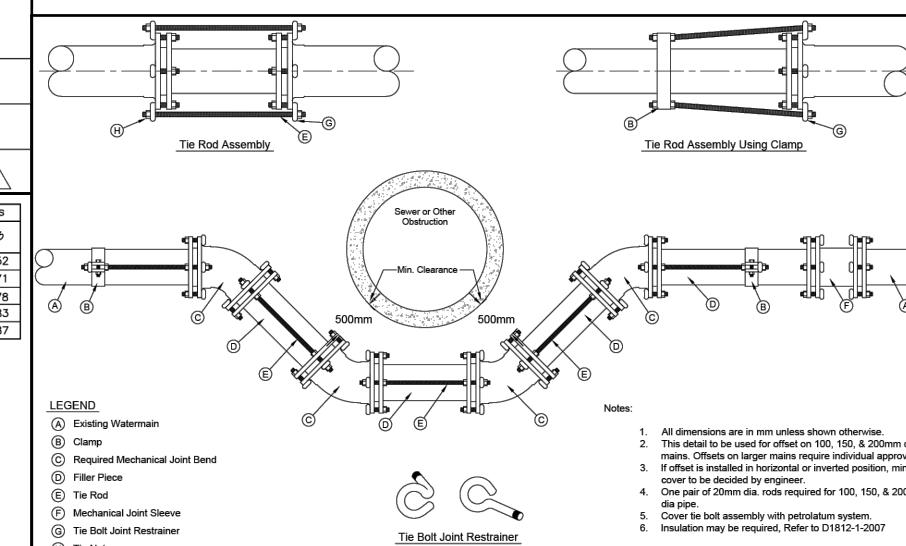
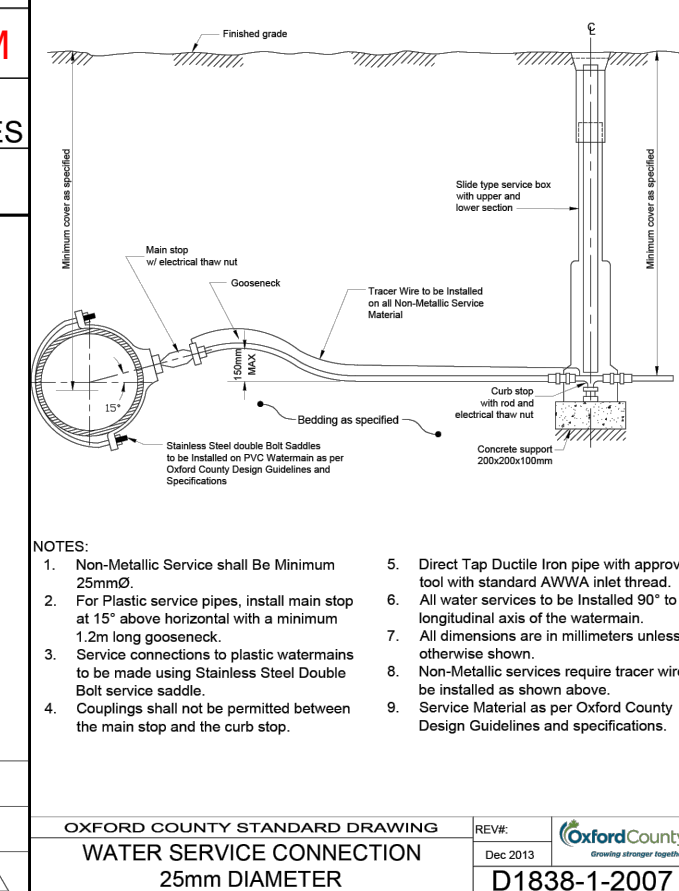
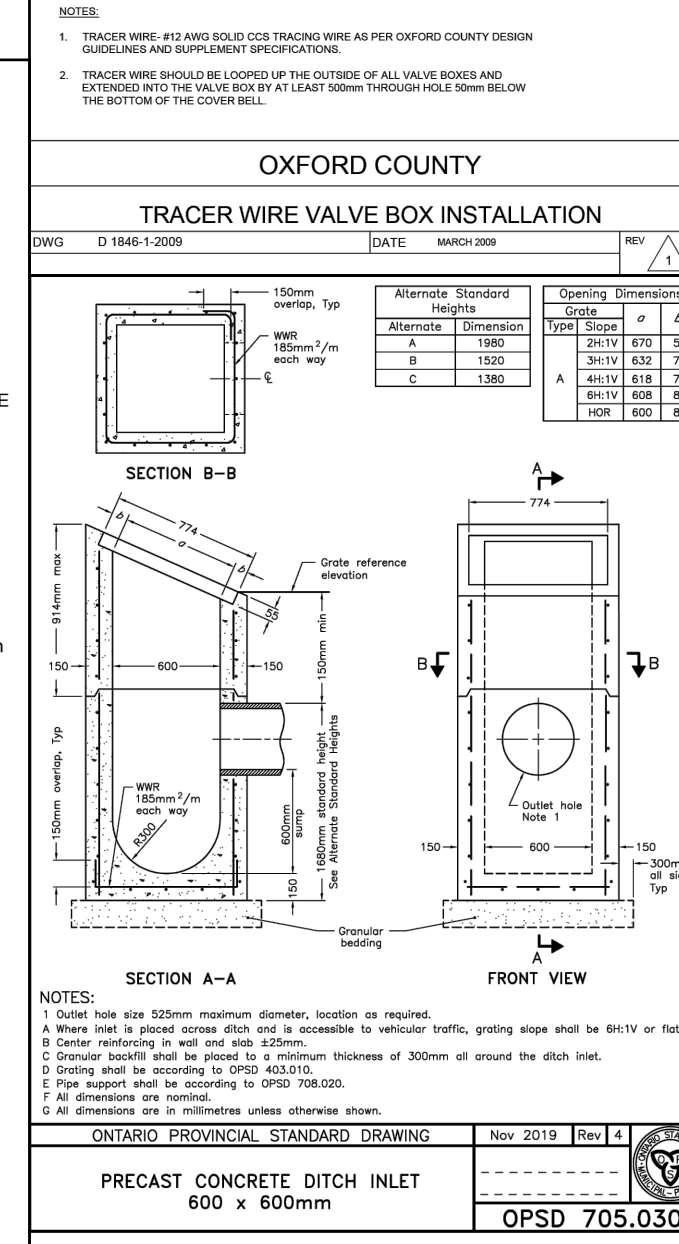
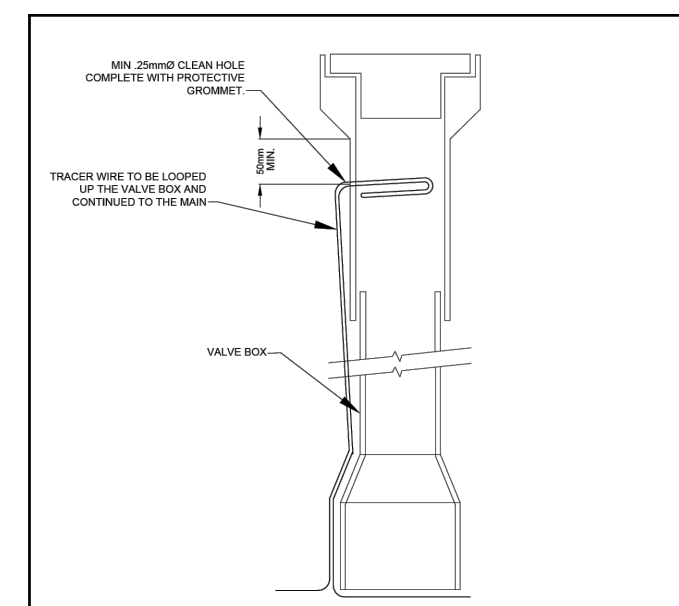
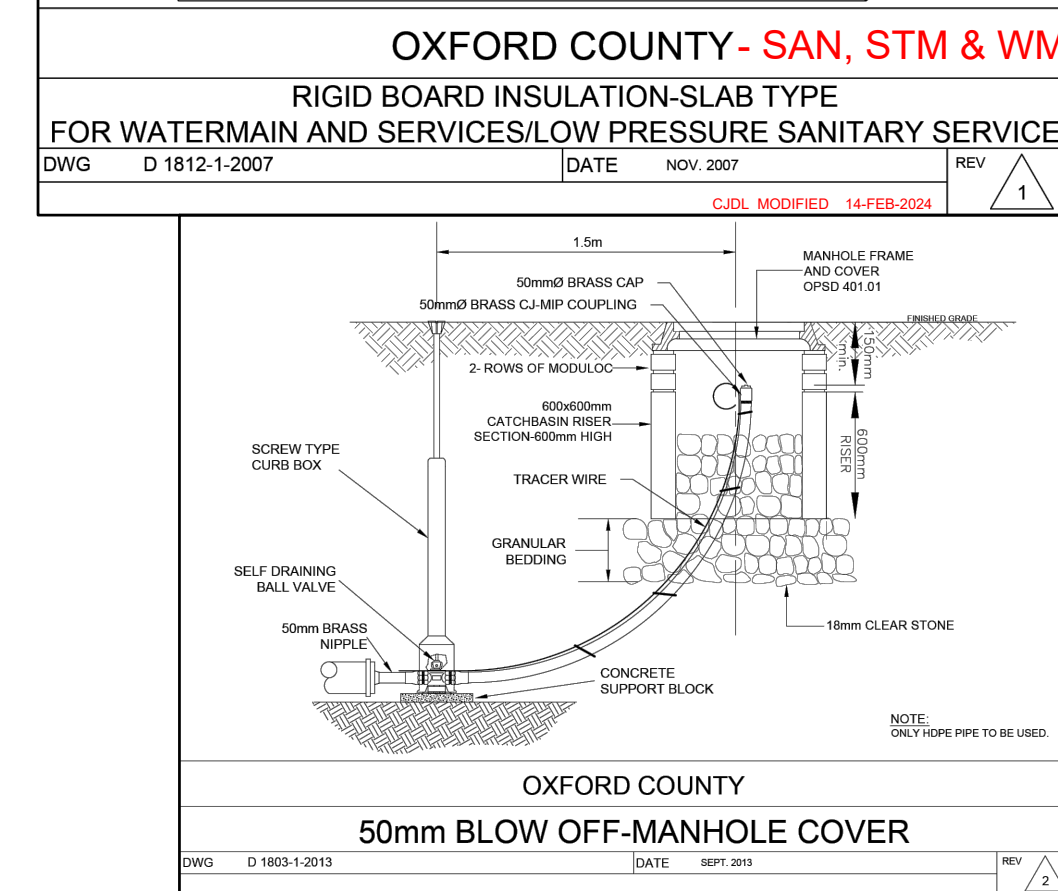
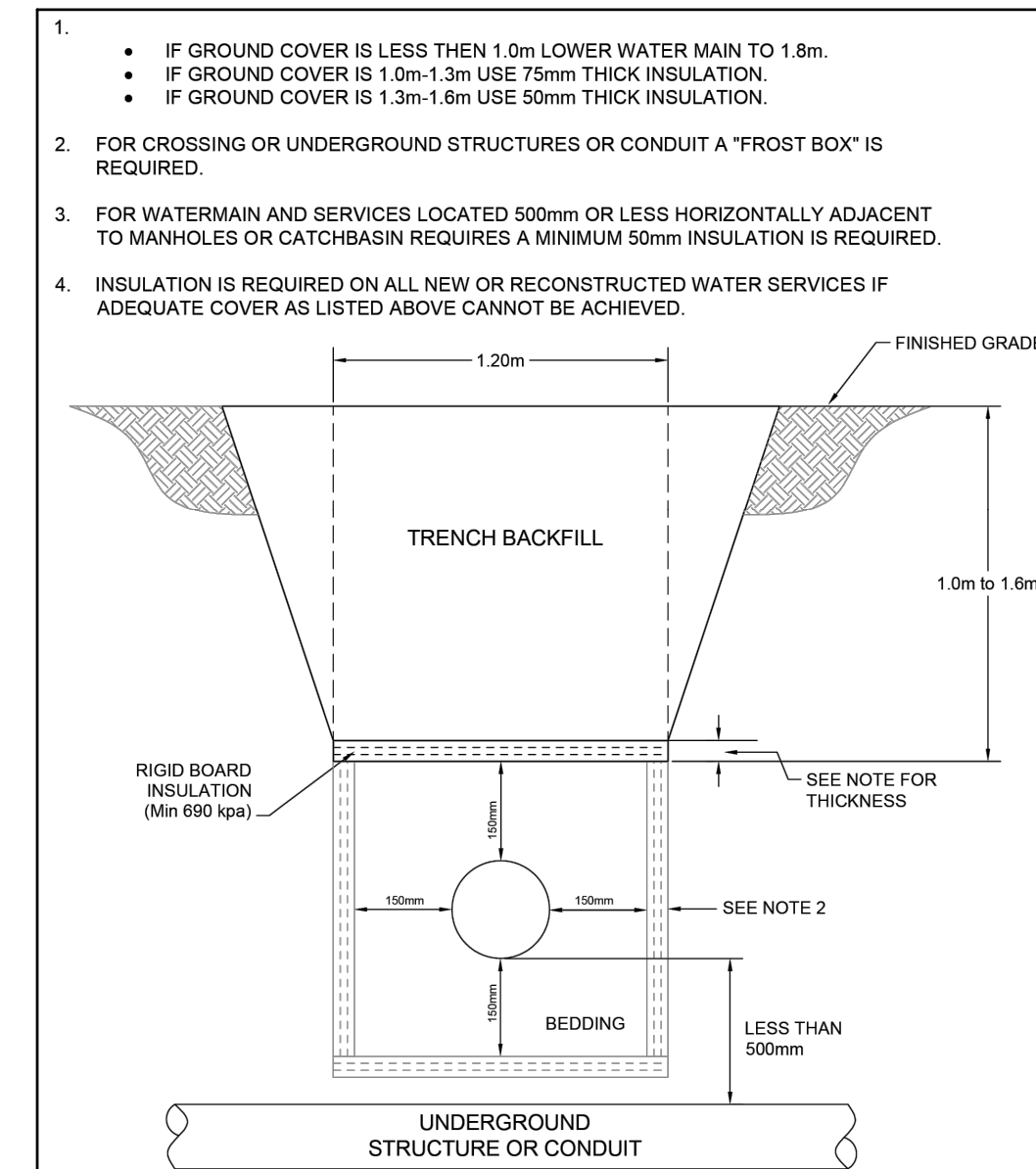
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF TILLSBURG STANDARD DRAWINGS (TSD) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).
- ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY THE TOWN OF TILLSBURG STANDARD DRAWING (TSD) AND THEN ONTARIO PROVINCIAL STANDARD DRAWING (OPSD).
- LOCATION OF EXISTING SERVICES ARE NOT GUARANTEED. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- A ROAD ENCROACHMENT PERMIT IS REQUIRED FROM THE TOWN ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN ANY TOWN RIGHT-OF-WAY.
- NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT.
- ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN ENGINEERING DEPARTMENT.

ROADWORKS (TSD-750)

- GRADE AND CROSSFALL ADJUSTMENT OF MAINTENANCE HOLE AND CATCHBASIN FRAMES WILL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE.
- ADJUSTMENT UNITS MUST BE CERTIFIED TO MEET PERTINENT OPS, CSA, ASTM AND MTW-DSM LISTS, OR OTHER INDUSTRY GUIDELINES FOR MATERIALS, PERFORMANCE AND USE AS APPLICABLE.
- ADJUSTMENT UNITS AND JOINTS WILL BE SEALED AND OR PARGED IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
- MORTAR IS USED FOR LEVELING OF PRECAST UNITS ONLY. THE THICKNESS OF MORTAR WILL BE 10mm TO FILL ALL VOIDS CREATED BY IRREGULARITIES IN THE PRECAST UNITS TO ENSURE AN EVEN SURFACE ONLY.

WATERMANS (TSD-1300)

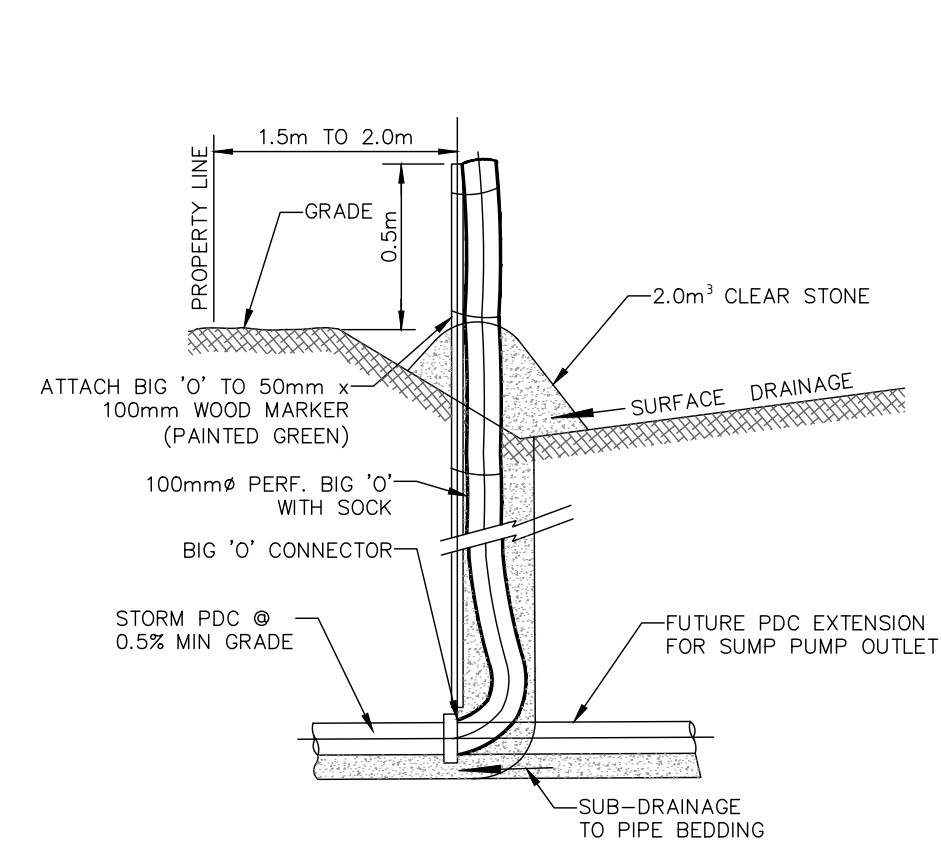
- CONTRACTORS SHALL INFORM THE TOWN



- TRACER WIRE FOR DIRECT BURY SHALL BE SOLID #12 AWG (0.0800" DIAMETER), 21% CONDUCTIVITY, HIGH STRENGTH (HS), COPPER-CLAD HARD DRAWN HIGH CARBON STEEL (CCS) TRACER WIRE, 30 MIL. HDPE INSULATION JACKET COMPLYING WITH ASTM-D-1248, MINIMUM BREAK LOAD 452 LBS, 30 VOLT RATING, BLUE IN COLOUR.
- ALL CONNECTIONS OR REPAIRS IN THE TRACER WIRE SYSTEM SHALL BE MADE USING A COPPER SPLIT-BOLT CONNECTOR WITH DRYOCONN 3-WAY DIRECT BURY WATERPROOF SPLIT-BOLT HOUSING (AQUA). DRYOCONN 3-WAY DIRECT BURY WATERPROOF CONNECTOR (DB LUG AQUA) OR APPROVED EQUAL. TRACER WIRES AT END OF ROLLS, REPAIRS OR WATER SERVICES 100mm DIAMETER OR LARGER SHALL HAVE SUFFICIENT SLACK TO BE KNOTTED TOGETHER PRIOR TO PLACEMENT OF CONNECTOR. ALL CONNECTIONS SHALL BE WRAPPED WITH PETROLATUM TAPE AND COMPRESSED TIGHTLY BY HAND AROUND WIRE AND CONNECTOR. TRACER WIRE CONNECTIONS TO BE INSTALLED AS PER DETAIL D1855-1-2018.

		SCALES AS SHOWN		TOWN OF TILLSBURG Cyril J. Demeyere Limited P.O. Box 460, 261 Broadway Tillsburg, Ontario, N4G 4H8 Tel: 519-688-1000 866-302-9886 Fax: 519-842-3235 cjd@cjdleng.com			CRANBERRY ROAD RECONSTRUCTION RFT20XX-XXX TOWN OF TILLSBURG WATERMAIN DETAILS
		3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM	DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP	
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM	No.	REVISION		DATE
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC			DRAWING No.	

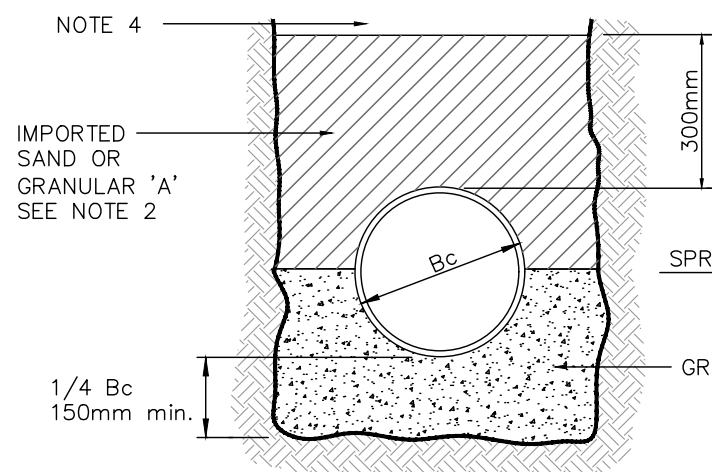
I:\ACAD\Projects\2022\2021\1004-Layouts\2014_General Notes Updated.dwg, 2025-02-21 4:56:46 PM, cjd@pc05, 1:25.4



STORM PDC SUBDRAIN CONNECTION

N.T.S.

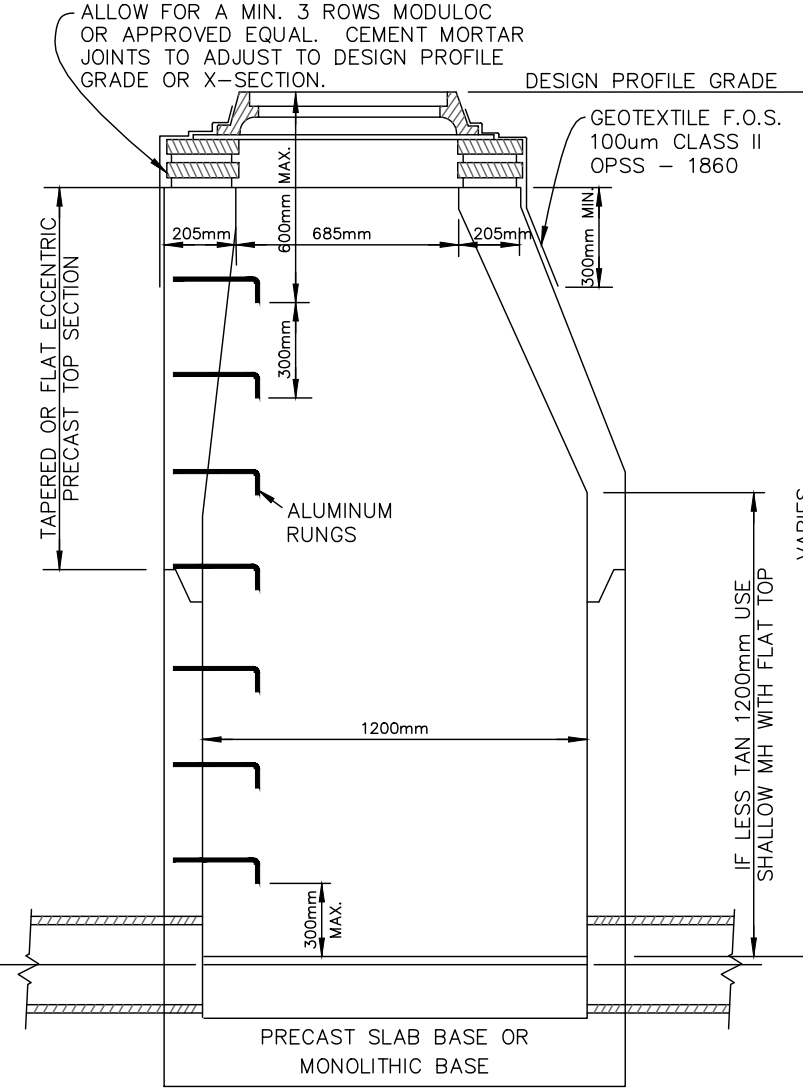
MINIMUM TRENCH WIDTHS
UP TO 900mm : Bc + 300mm EACH SIDE.
LARGER THAN 900mm : Bc + 375mm EACH SIDE.



BEDDING NOTES

- ALL BEDDING & BACKFILL MATERIALS SHALL BE COMPACTED TO 95% S.M.D. THE BEDDING SHALL BE COMPACTED BEFORE LAYING PIPE AND IN 150mm MAX. LIFTS TO 300mm ABOVE TOP OF PIPE PRIOR TO PLACING ADDITIONAL BACKFILL.
- WHERE NATIVE SOIL IS CLAY, GRANULAR 'A' SHALL BE EXTENDED TO 300mm ABOVE THE PIPE (DRY TRENCH).
- IN WET TRENCH CONDITIONS 19mm CRUSHED STONE SHALL BE USED IN LIEU OF GRANULAR 'A' WITH A COMPLETE GEOTEXTILE ENVELOPE (TERRAFIX 270R OR APPROVED EQUAL). DEPTH OF 19mm CRUSHED STONE BEDDING SHALL BE INCREASED IN POOR SOIL CONDITIONS AS REQUIRED TO PROVIDE A STABLE BEDDING.
- CLEAN NATIVE/IMPORTED FILL.

CLASS 'B' BEDDING
N.T.S.



PRECAST MANHOLE

N.T.S.

MANHOLE NOTES

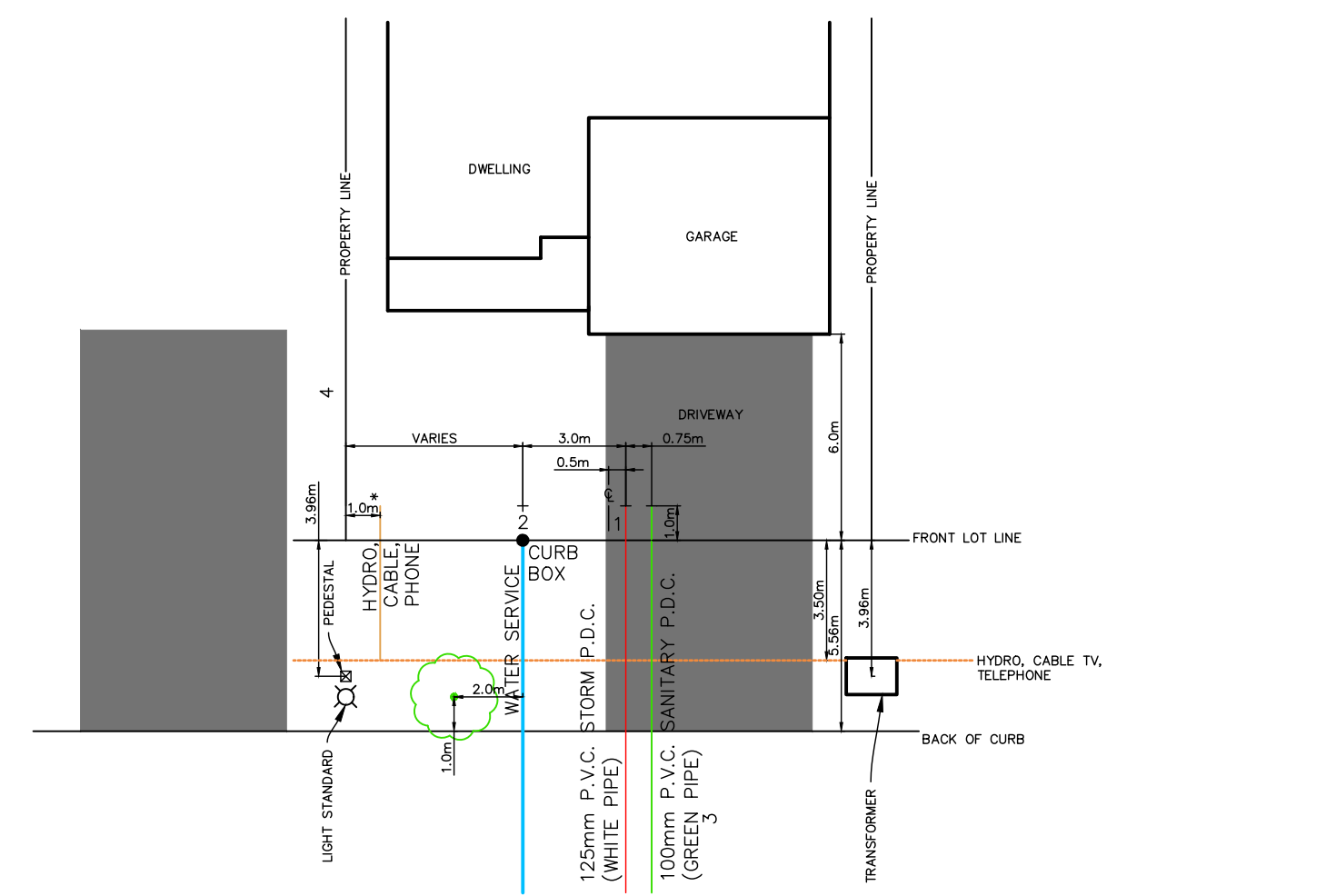
- PRECAST SECTIONS SHALL COMPLY WITH CURRENT OPSD 700 SERIES FOR PRECAST CONCRETE MANHOLES. PREBENCHED MANHOLES ARE ACCEPTABLE.
- ON OVERSIZED MANHOLES, THE TRANSITION TO 1200mm SHALL NOT BE LESS THAN 1.5m ABOVE MAINLINE VEERT.
- FIRST PIPE JOINT TO BE WITHIN 300 mm OF OUTSIDE MANHOLE WALL. OTHERWISE CONCRETE CRADLE SUPPORT TO FIRST JOINT. (CLASS 'B' BEDDING ACCEPTABLE ON PIPES 450mm & LARGER)
- PVC AND POLYETHYLENE PIPE SHALL BE CONNECTED TO MANHOLES WITH FACTORY SAND COATED PVC STUB OR FOR-N-R-SEAL COUPLING.
- BENCHING ON END MANHOLES TO EXTEND TO FAR INSIDE WALL. BENCHING ON LATERAL INLETS SHALL BE 500mm C RADIUS. BENCHING TO CONFORM TO OPSD 701.021. MANHOLES SHALL BE PREBENCHED FOR ALL PDCs / LATERALS.
- TOP LADDER RUNG SHALL NOT EXCEED 600 mm FROM FINISHED GRADE. MANHOLES OVER 5.0m DEEP SHALL INCLUDE SAFETY GRATE PER OPSD 404.020.
- MANHOLE FRAMES AND GRATES SHALL BE O.P.S.D. 401.010 - CLOSED COVER MANHOLE COVERS SHALL BE SET ON GEOTEXTILE F.O.S. 250 um CLASS II O.P.S.S. 1860 UNTIL SETTING IS PAVED.
- CEMENT MORTAR USED FOR SETTING OF PIPES, BENCHING, ADJUSTMENT & SETTING OF FRAMES FOR CATCHBASINS & MANHOLES, SHALL CONSIST OF ONE PART NORMAL PORTLAND CEMENT TO TWO PARTS MASONRY SAND WITH ONLY SUFFICIENT WATER TO MAKE THE MIXTURE PLASTIC. ADJUSTMENT RINGS TO BE PARGED ON OUTSIDE; INSIDE JOINTS TO BE POINTED ONLY, NOT PARGED.
- CEMENT BACKFILL SHALL BE PLACED TO A MIN. WIDTH OF 300mm ALL AROUND MANHOLES, IN 300 mm MAX. LIFTS COMPACTED TO 95% STANDARD PROCTOR.
- ADJUSTMENTS IN EXCESS OF 300mm SHALL BE MADE WITH PRECAST RISER SECTIONS. NO STEPS SHALL BE INSTALLED IN CONCRETE ADJUSTMENT UNITS.
- IN AREAS OF HIGH GROUNDWATER, WATERPROOFING OF MANHOLES AND CHAMBERS IS REQUIRED AS PER COUNTY GUIDELINES. SEAL/TIGHT MEL-ROL WATERPROOFING SYSTEM AS MANUFACTURED BY W.R. MEADOWS OR APPROVED EQUAL.
- EXTERNAL DROP STRUCTURE PER OPSD 1003.010 SHALL BE PROVIDED IN MANHOLES WHEN THE DIFFERENCE IN ELEVATION BETWEEN INVERTS OF THE INLET PIPE AND AN OUTLET PIPE EXCEED 0.9m FOR STORM AND 0.6m FOR SANITARY.
- ALL CATCHBASINS MANHOLES (CBMH) ARE TO BE BENCH UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS OR DIRECTED ON-SITE BY ENGINEER

GENERAL NOTES (MODIFIED
TSD-222)

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ROADWORKS (TSD-750)

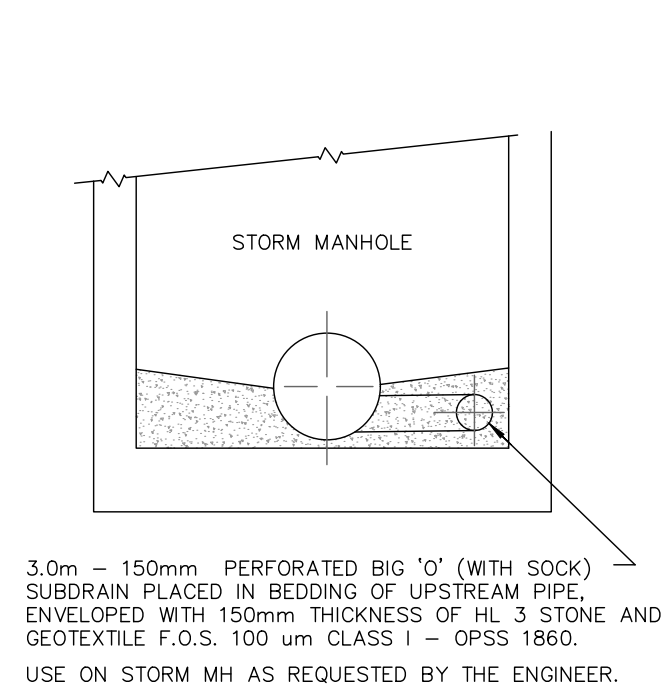
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- ADJUSTMENT UNITS MUST BE CERTIFIED TO MEET AT PERMITS OPS, CSA, ASTM AND MTW-OSM LISTS, OR OTHER INDUSTRY GUIDELINES FOR MATERIALS, PERFORMANCE AND USE AS APPLICABLE.
- ADJUSTMENT UNITS AND JOINTS WILL BE SEALED AND OR PARGED IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
- MORTAR IS USED FOR LEVELING OF PRECAST UNITS ONLY. THE THICKNESS OF MORTAR WILL BE 10mm TO FILL ALL VOIDS CREATED BY IRREGULARITIES IN THE PRECAST UNITS TO ENSURE AN EVEN SURFACE ONLY.



(FOR LOTS 2-5)
SERVICING LAYOUT - SINGLE DETACHED DWELLING

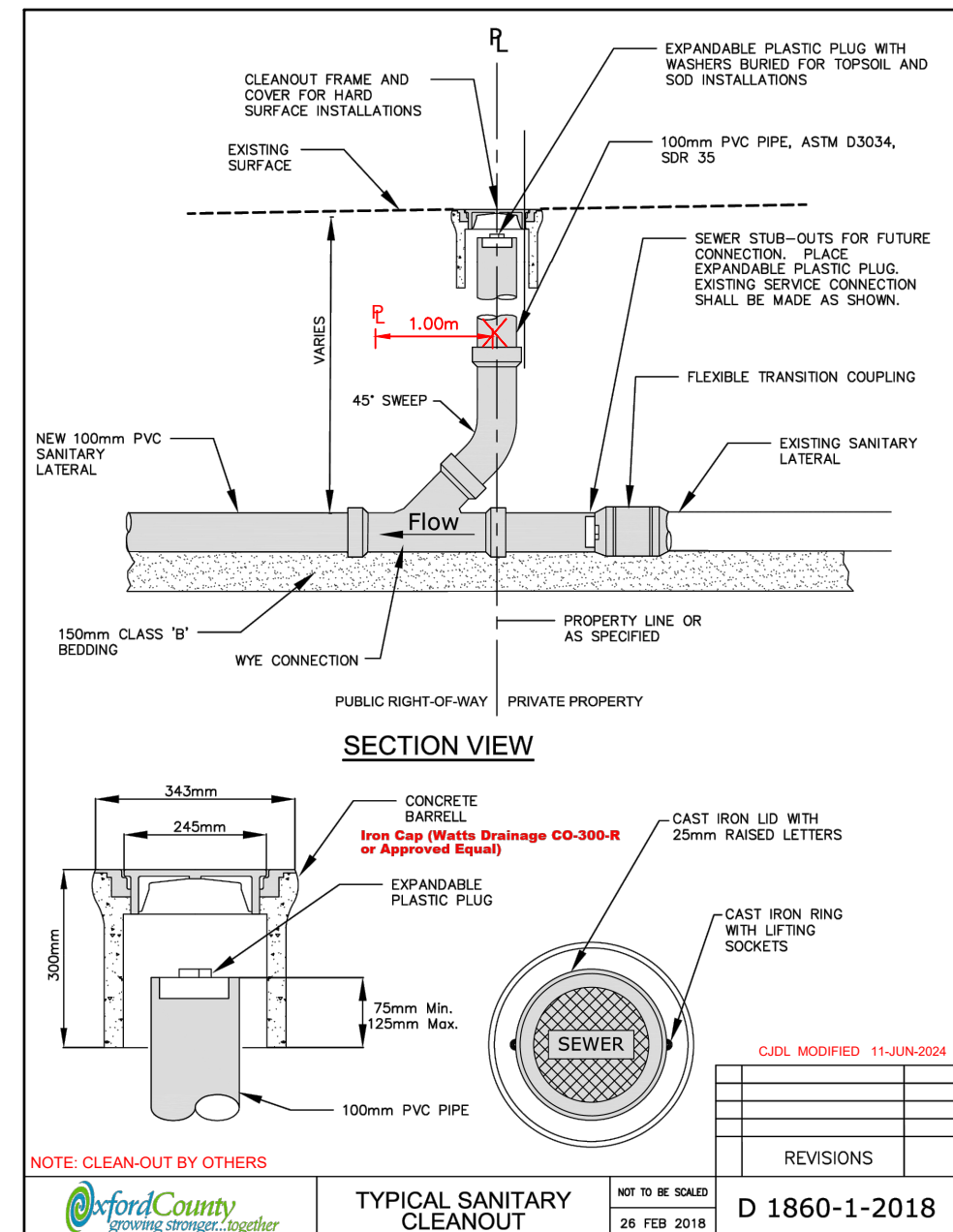
SCALE: 1:200

- NOTE
- * FOR EXTERIOR SIDE YARDS USE 4.5m OFFSET.
- SANITARY & STORM P.D.C. TO BE INSTALLED TO 1.0m PAST PROPERTY LINE.
 - CURB STOP TO BE LOCATED ON PROPERTY LINE.
 - PLACE SAND BACKFILL TO FINISHED GRADE WITHIN 3m OF TRANSFORMERS ON STORM PDC'S
 - PEDESTALS NOT TO BE PLACED BEHIND TRANSFORMERS
 - TREES LOCATIONS MAY VARY ON-SITE.
 - FOR CORNER LOTS, ADJUST CENTER OF THE LOT 1.65m AWAY FROM THE EXTERIOR SIDE YARD FOR LOCATION OF SANITARY, STORM AND WATERMAIN SERVICES.

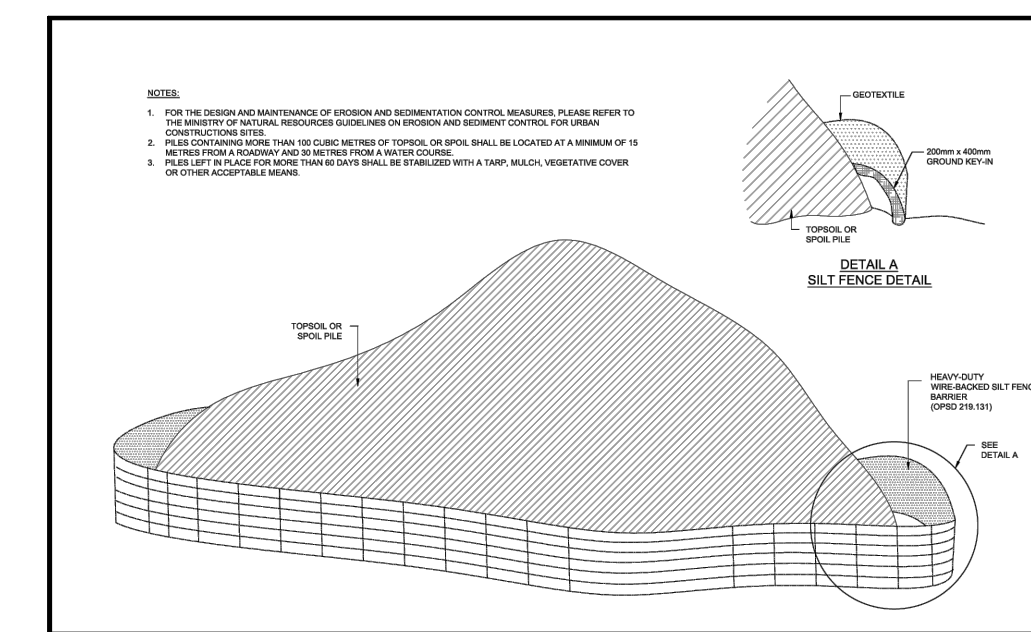


3.0m - 150mm PERFORATED BIG 'O' (WITH SOCK) SUBDRAIN PLACED IN BEDDING OF UPSTREAM PIPE. ENVELOPED WITH 150mm THICKNESS OF HL 3 STONE AND GEOTEXTILE F.O.S. 100 um CLASS I - OPSD 1860. USE ON STORM MM AS REQUESTED BY THE ENGINEER.

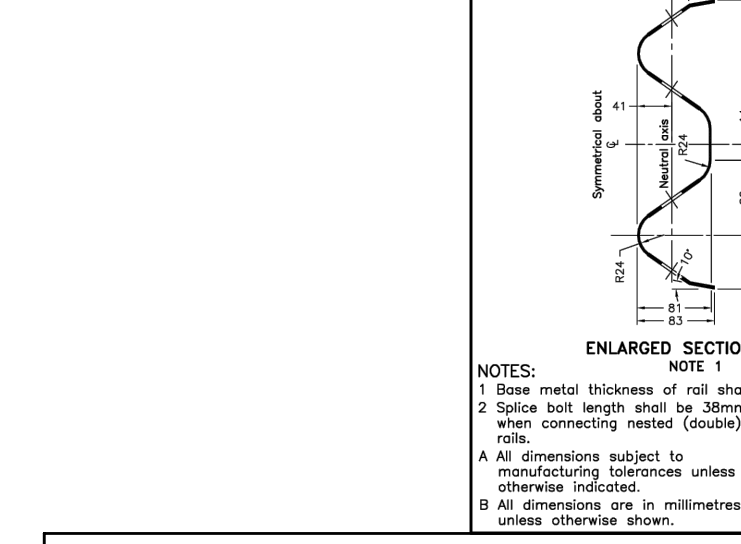
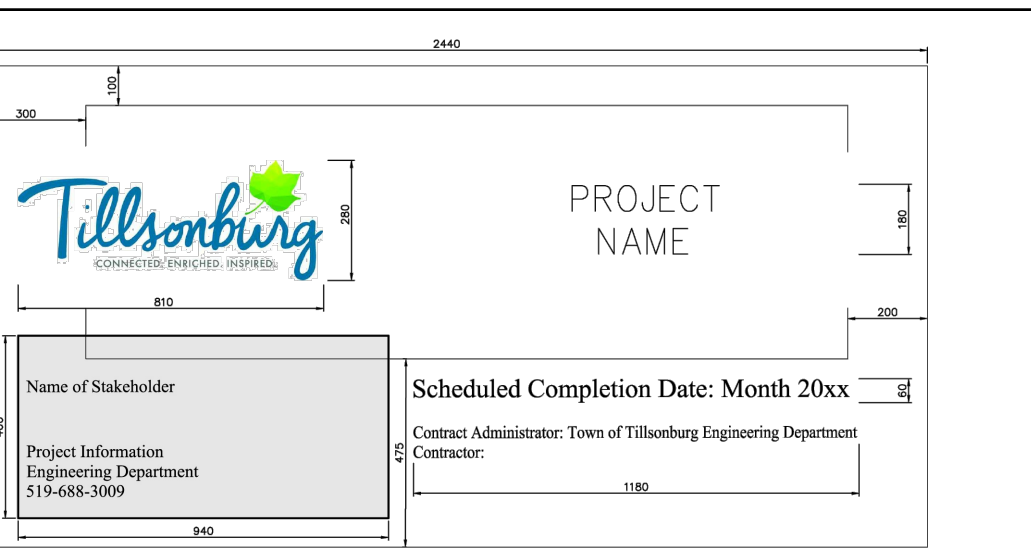
NOTE:
BIG 'O' & STONE POCKET TO BE INDIVIDUALLY AND COMPLETELY WRAPPED WITH GEOTEXTILE.
BEDDING SUBDRAIN
N.T.S.



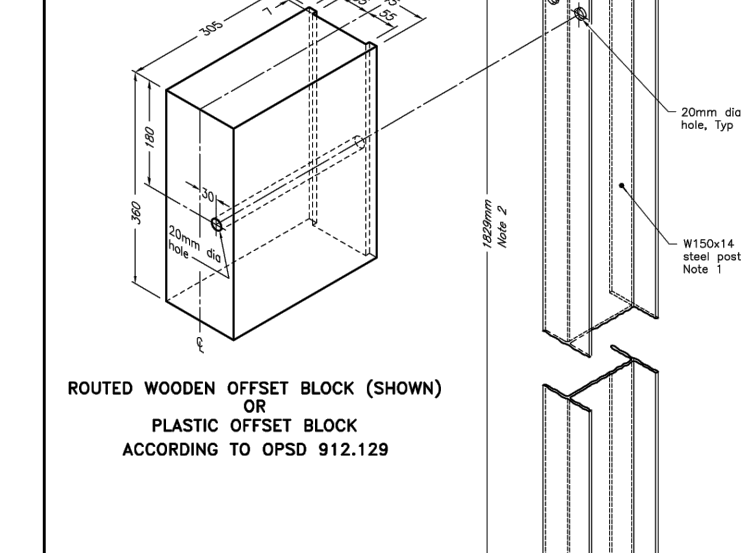
TYPICAL SANITARY CLEANOUT



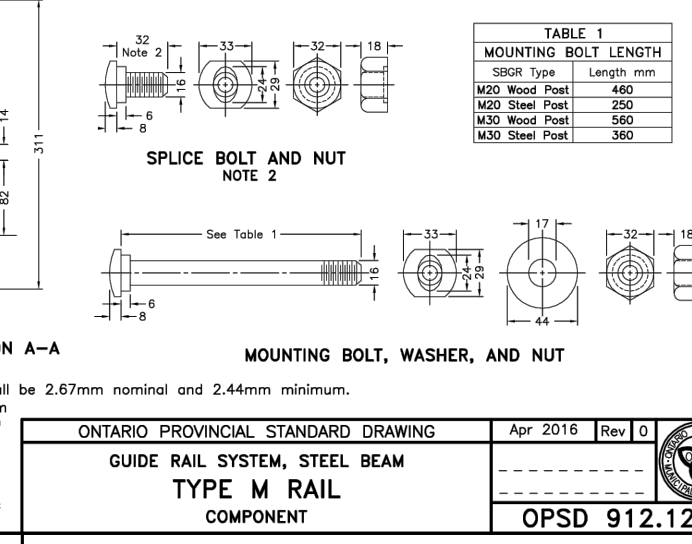
TOPSOIL OR SOIL PILE SILTATION CONTROL



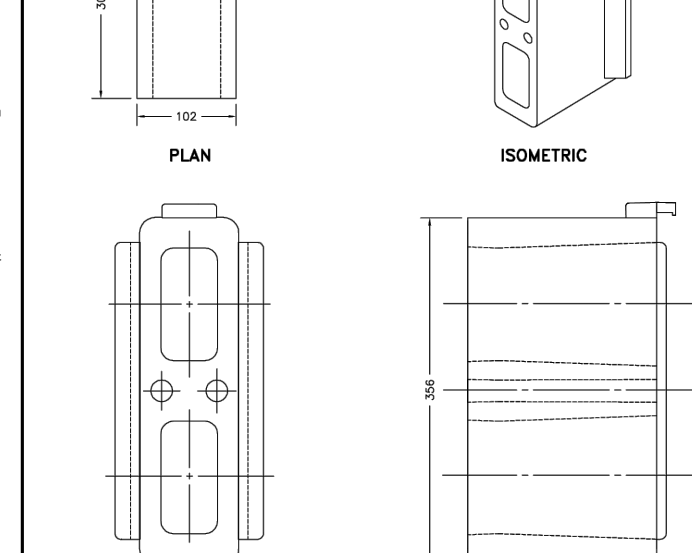
MOUNTING BOLT, WASHER, AND NUT



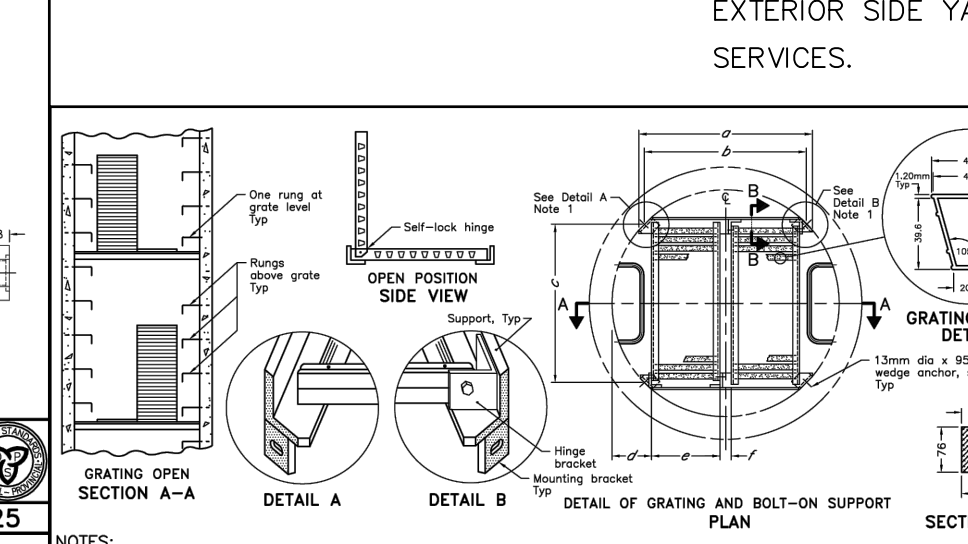
GUIDE RAIL SYSTEM, STEEL BEAM TYPE M-RAIL COMPONENT



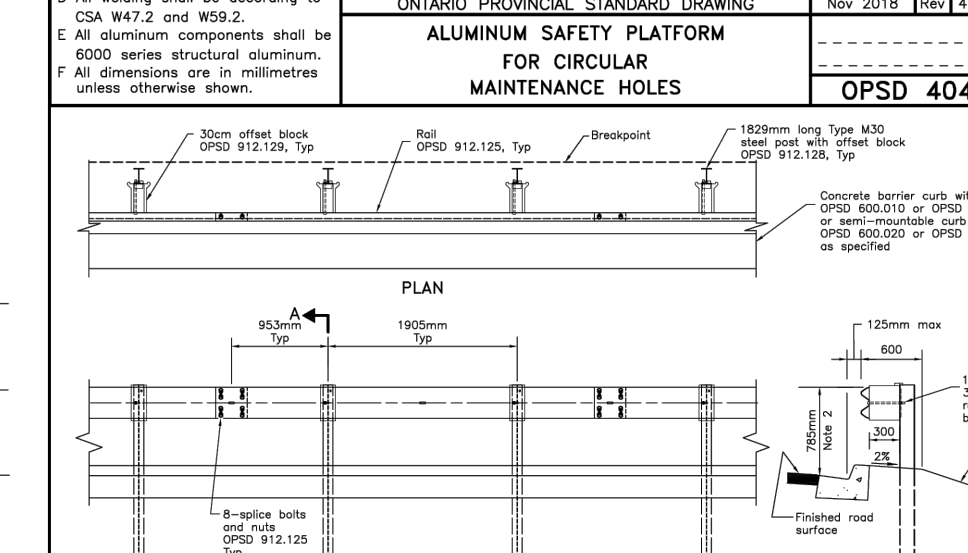
ROUTED WOODEN OFFSET BLOCK (SHOWN) OR PLASTIC OFFSET BLOCK



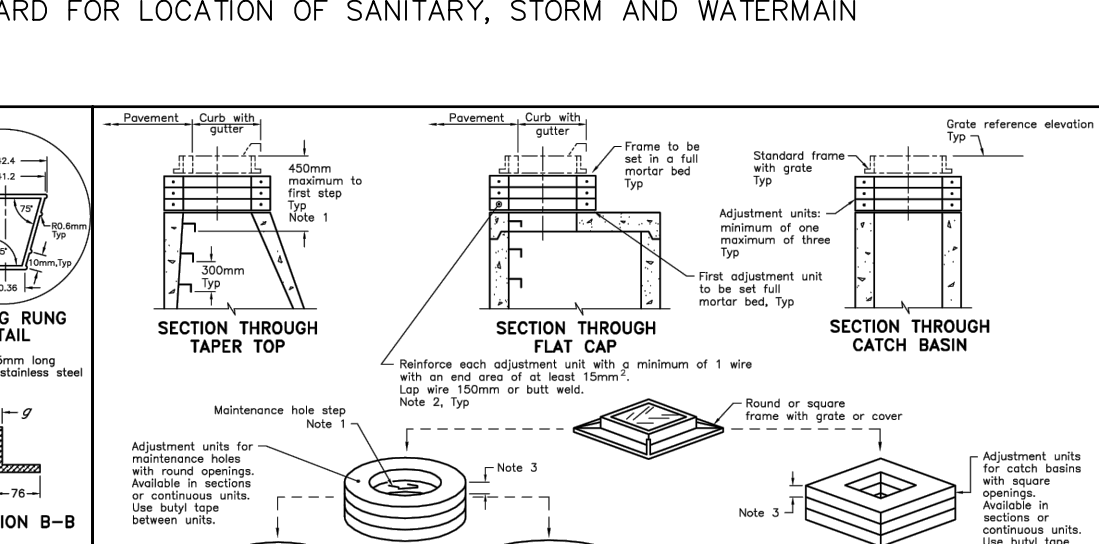
GUIDE RAIL SYSTEM, STEEL BEAM TYPE M30 STEEL POST WITH OFFSET BLOCK COMPONENT



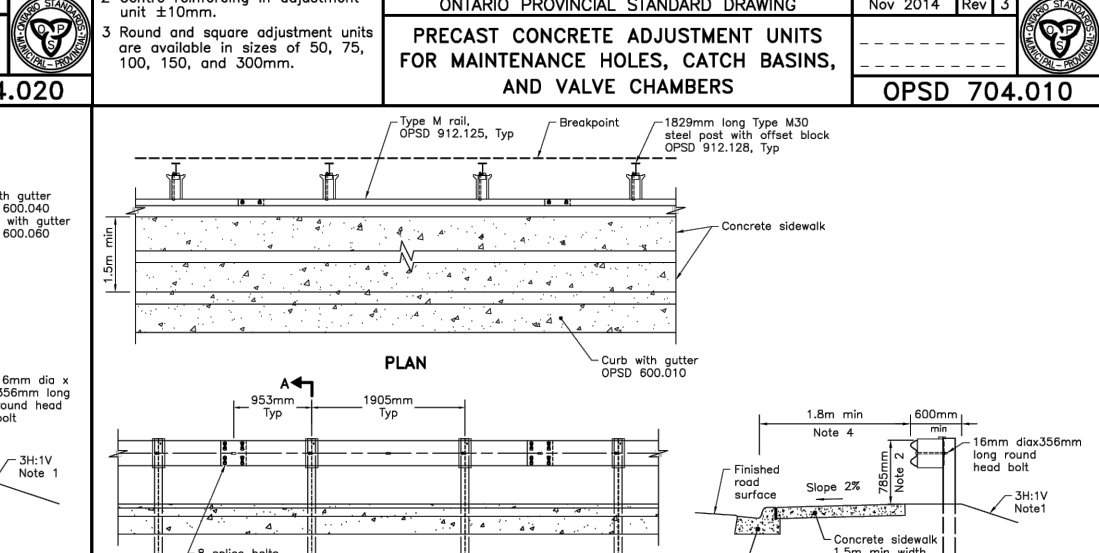
ALUMINUM SAFETY PLATFORM FOR CIRCULAR MAINTENANCE HOLES



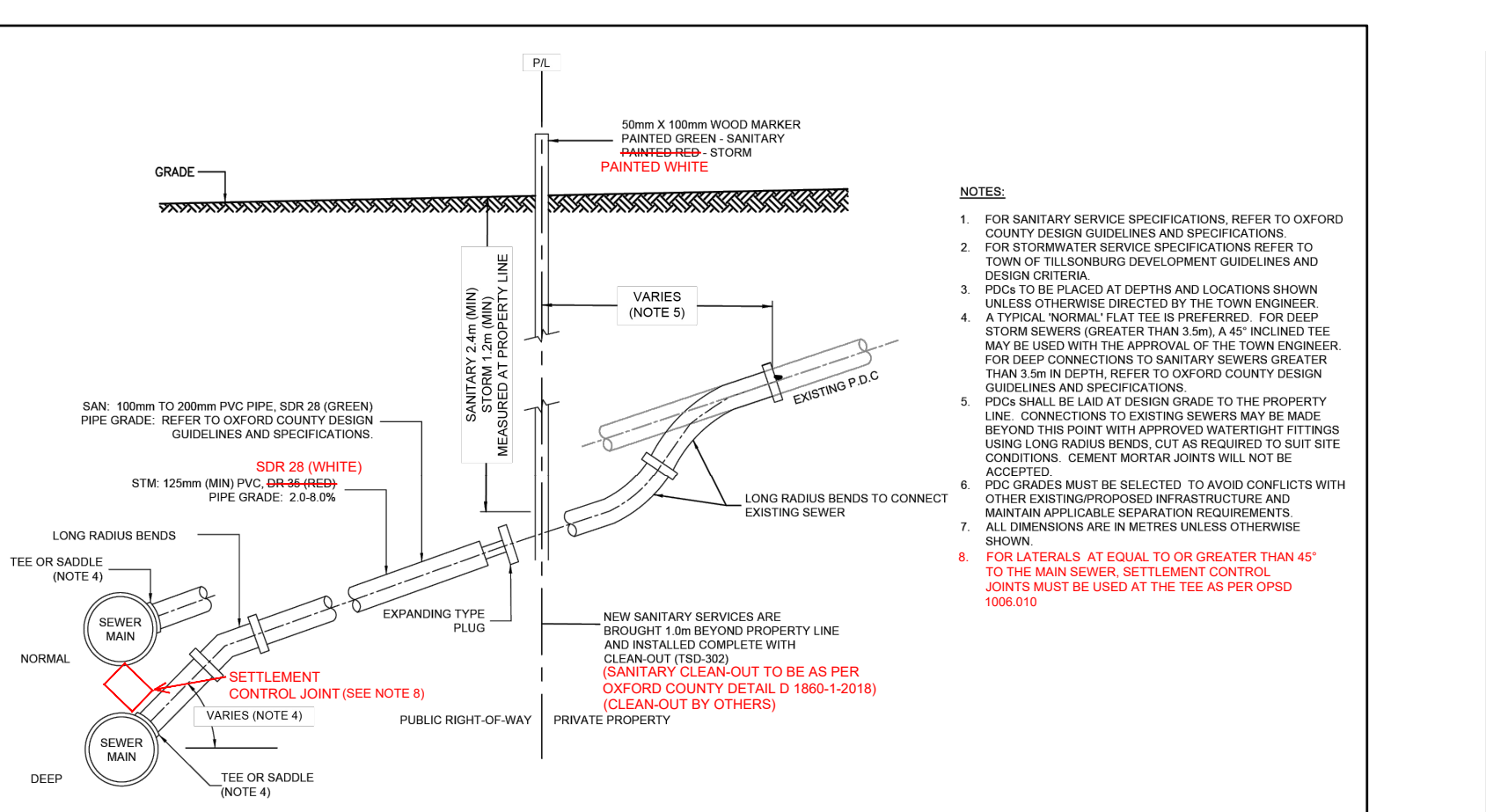
GUIDE RAIL SYSTEM, STEEL BEAM TYPE M30-ADJACENT TO CONCRETE CURB INSTALLATION



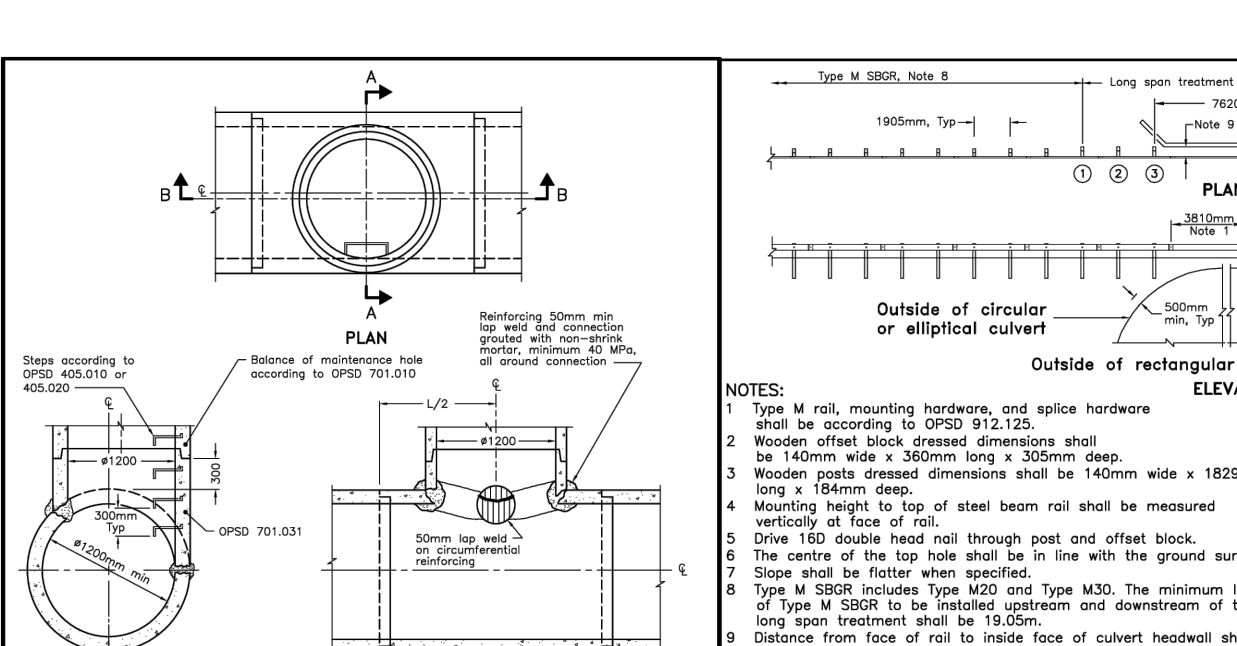
PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS



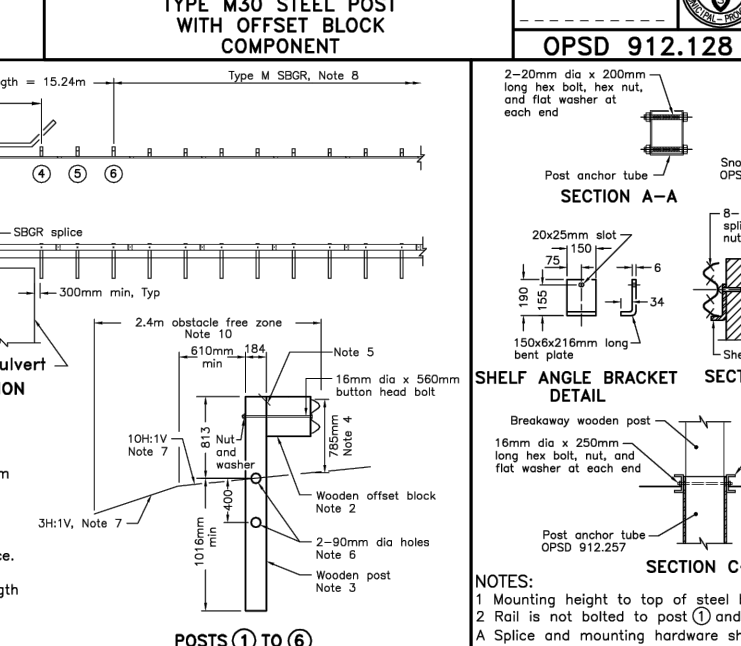
GUIDE RAIL SYSTEM, STEEL BEAM TYPE M30-ADJACENT TO SIDEWALK INSTALLATION



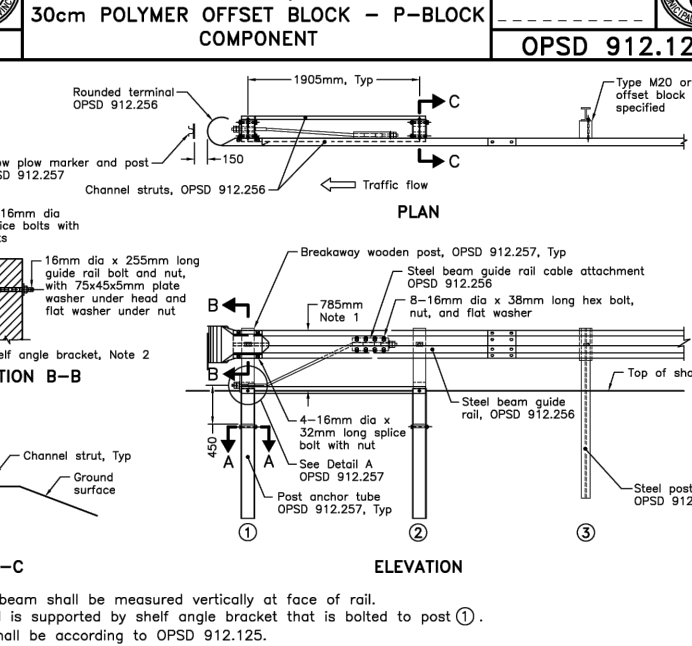
PRIVATE DRAIN CONNECTIONS



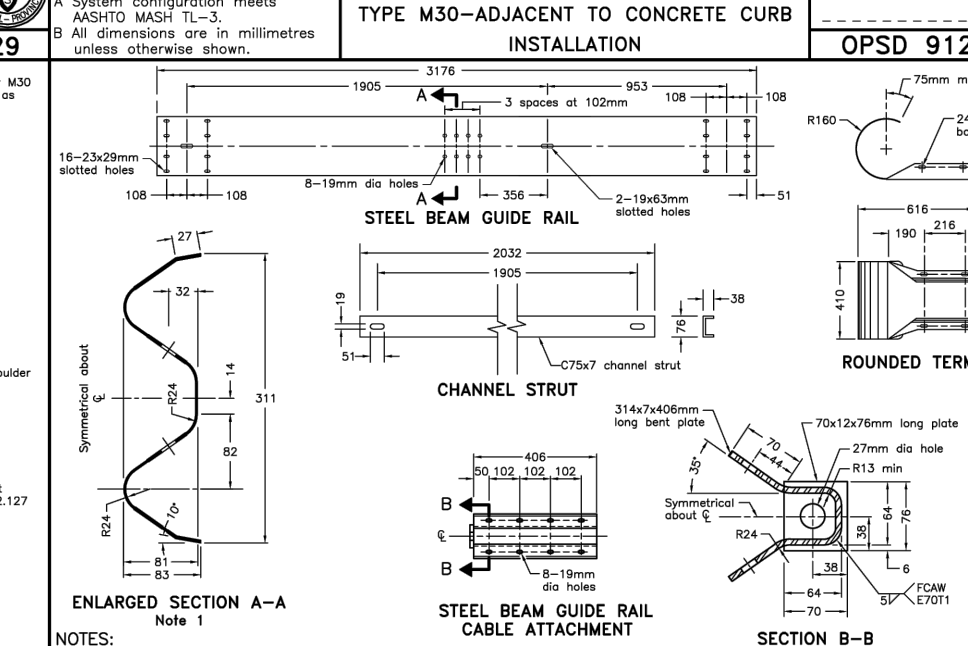
PRECAST CONCRETE MAINTENANCE HOLE MANUFACTURED TEE



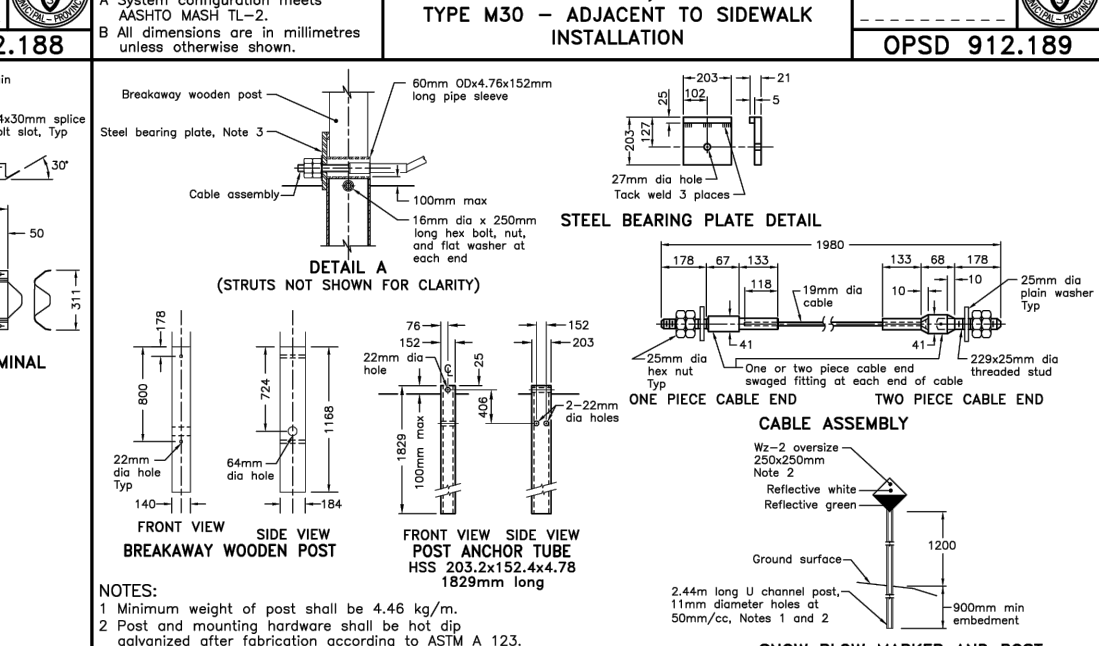
GUIDE RAIL SYSTEM, STEEL BEAM TYPE M-7.62m LONG SPAN TREATMENT INSTALLATION



GUIDE RAIL SYSTEM, STEEL BEAM TYPE M30 AND M40 LEAVING END TREATMENT INSTALLATION



GUIDE RAIL SYSTEM, STEEL BEAM TYPE M30 AND M40 LEAVING END TREATMENT RAIL COMPONENTS



CABLE ASSEMBLY BREAKAWAY WOOD POST

Tillsontburg STANDARD DETAIL
APPROVED
REVISION NO. DATE: DEC 2021
SCALE: N.T.S.
MANAGER OF ENGINEERING: [Signature]
DIRECTOR OF OPERATIONS: [Signature]
TSD-310

APPROVED
REVISION NO. DATE: DEC 2021
SCALE: N.T.S.
MANAGER OF ENGINEERING: [Signature]
DIRECTOR OF OPERATIONS: [Signature]
TSD-310

PROFESSIONAL ENGINEER
A.V. MURHEAD
100543499
PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER
P.J. PENNER
PROVINCE OF ONTARIO

SCALES AS SHOWN

1	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

No. REVISION DATE BY

PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022 DRAWING NO.

CYRIL J. DEMEYERE LIMITED
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CJDL
Consulting Engineers

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SEWER & SERVICING
DETAILS

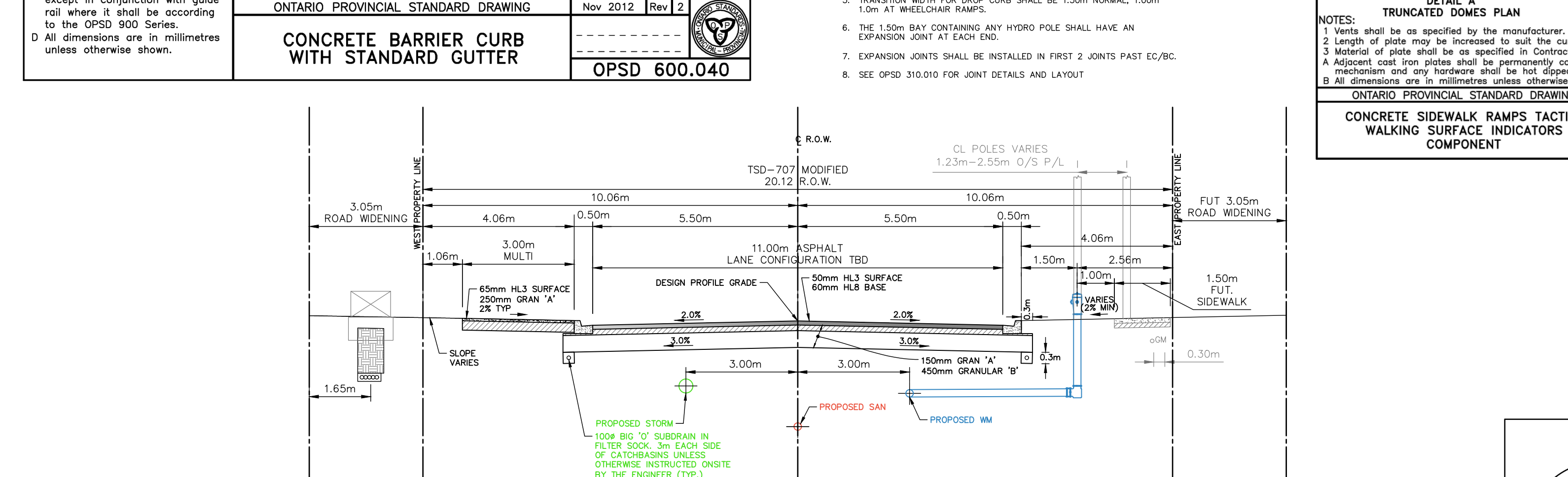
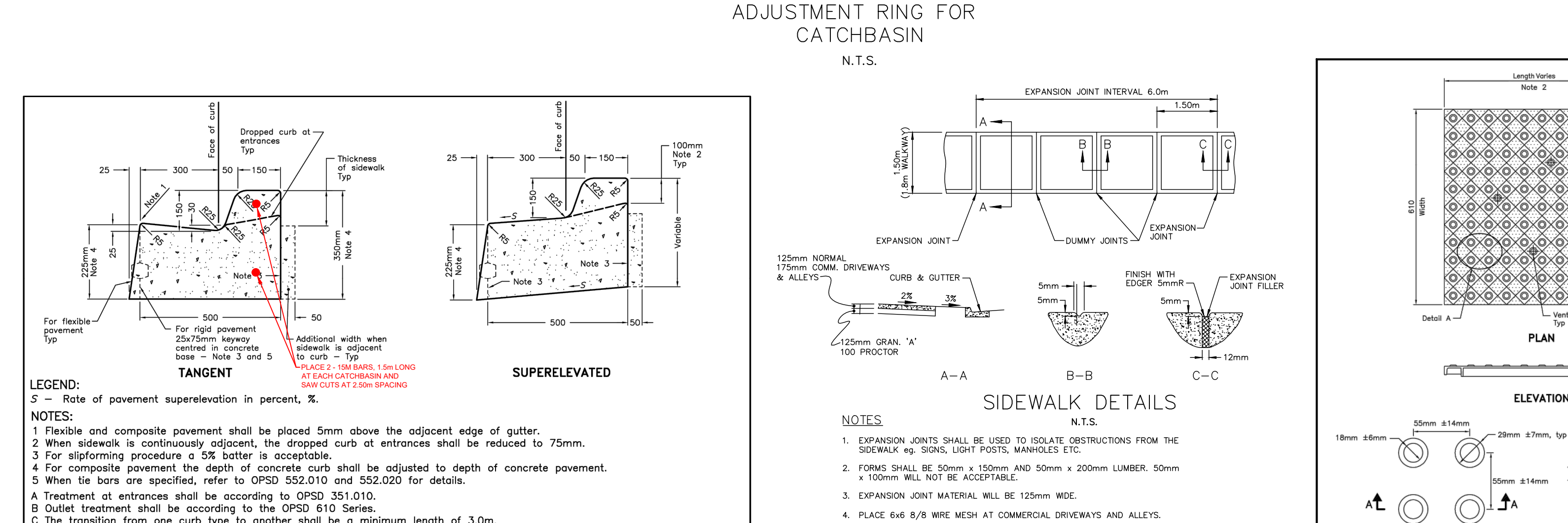
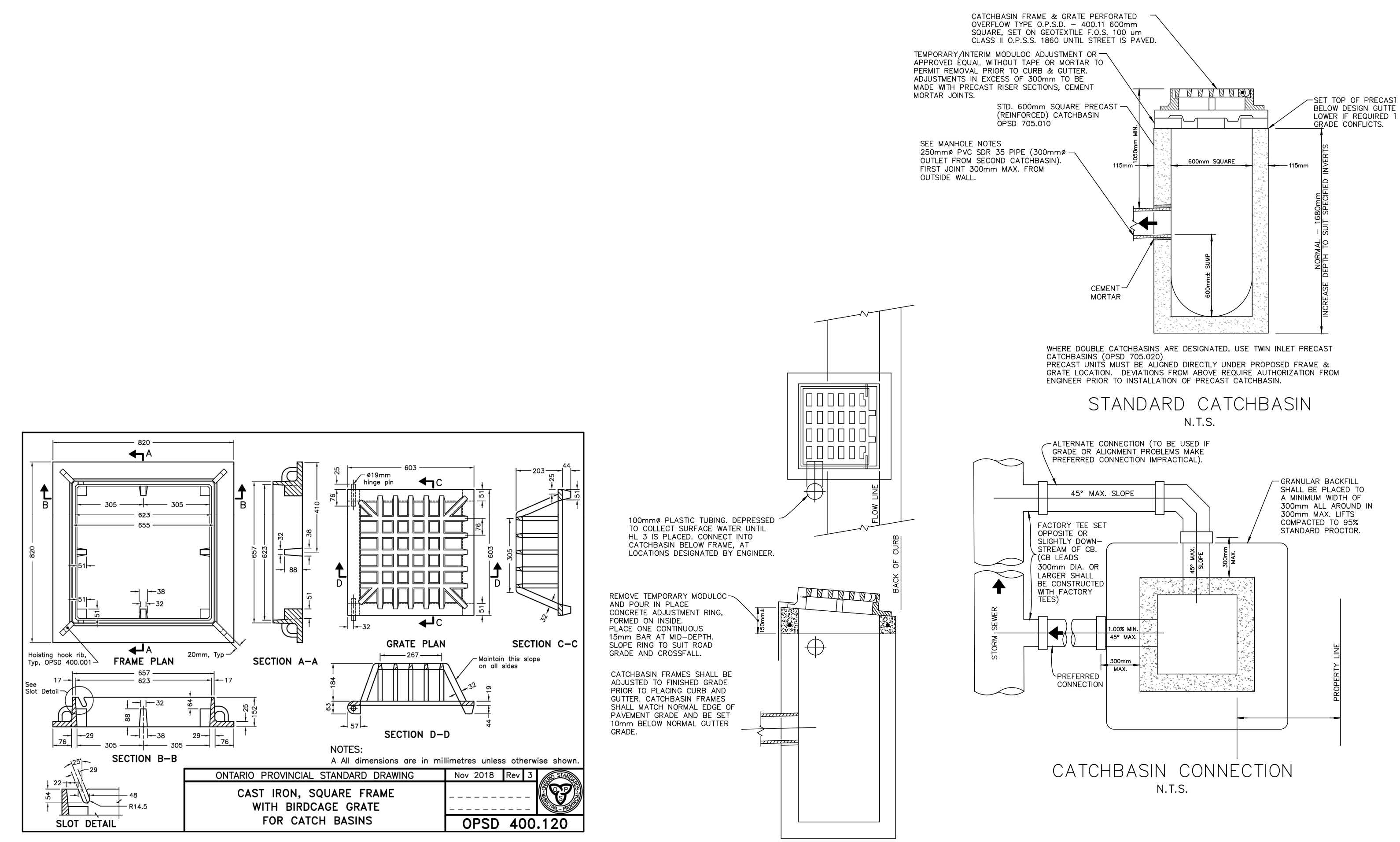
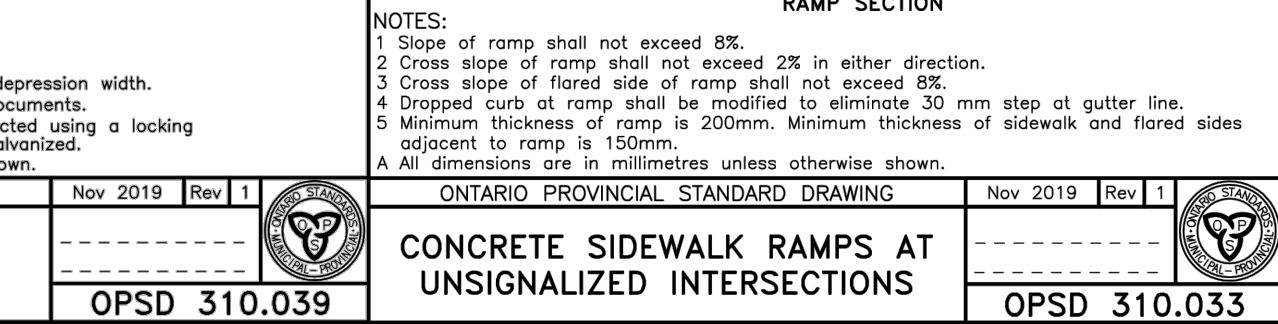
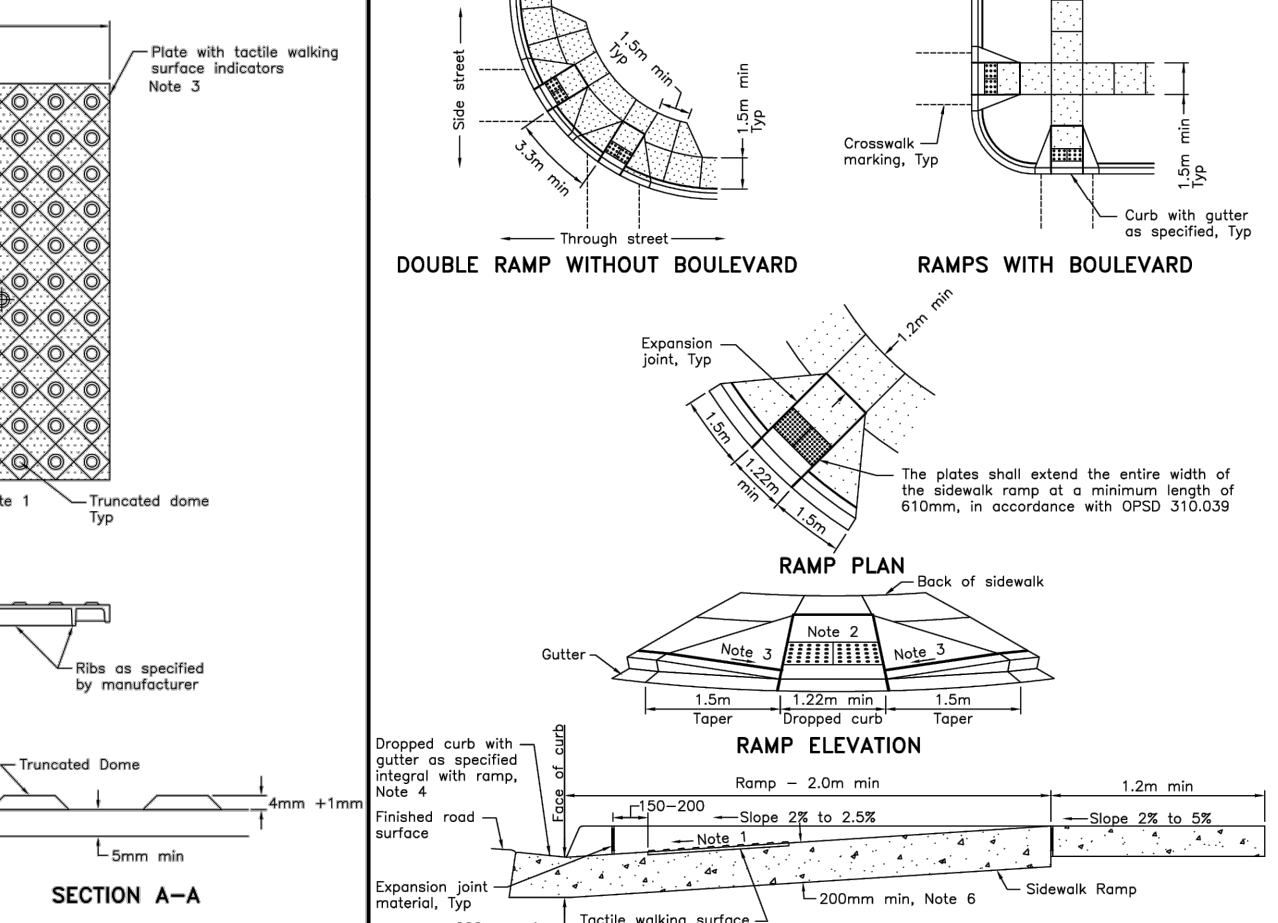
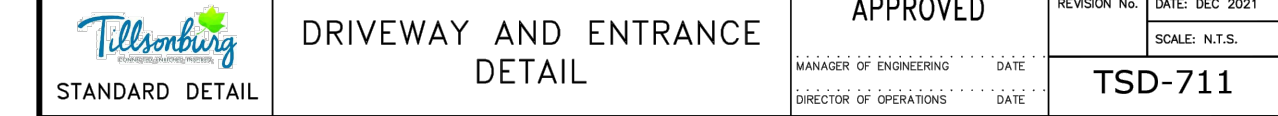
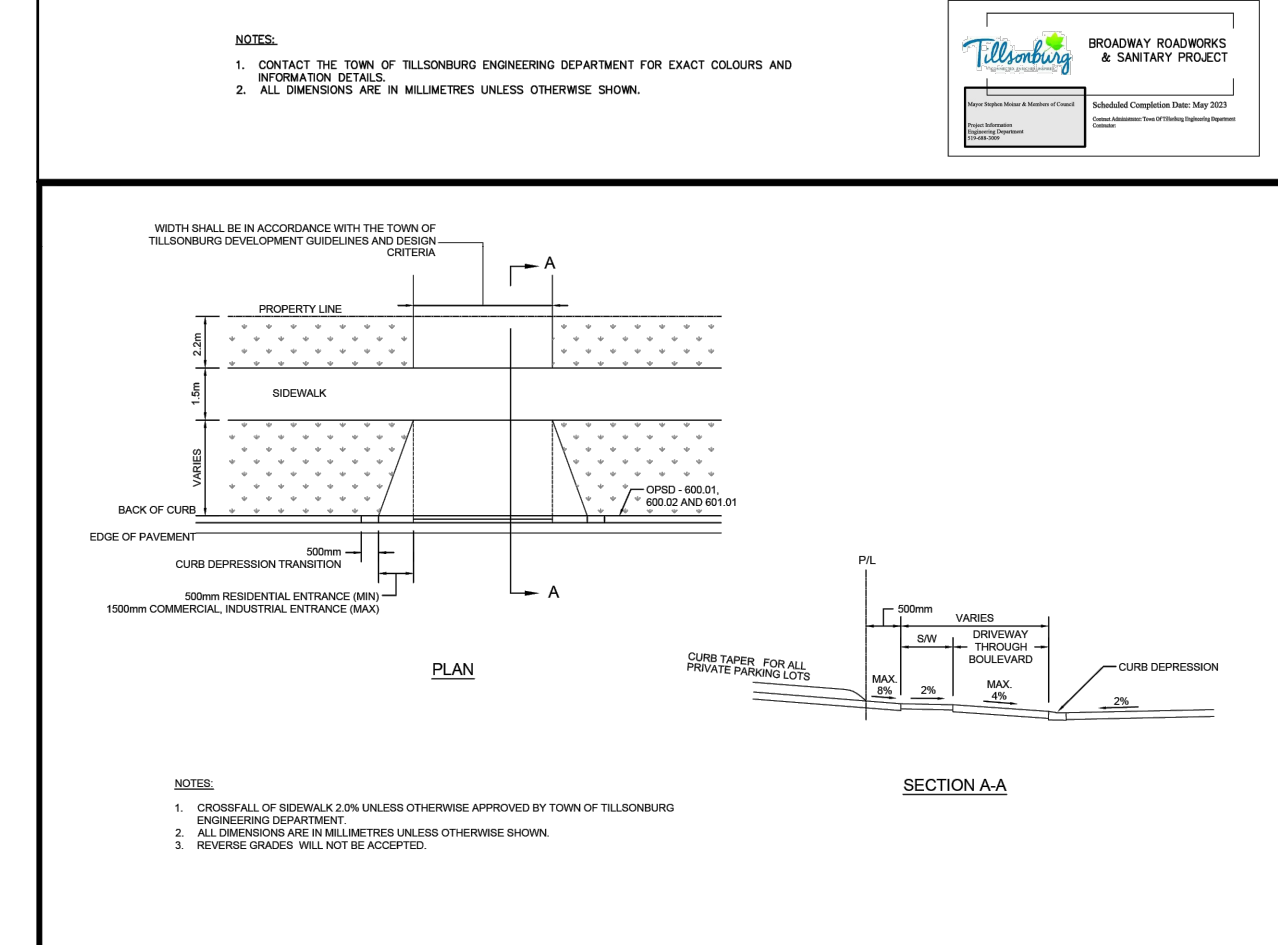
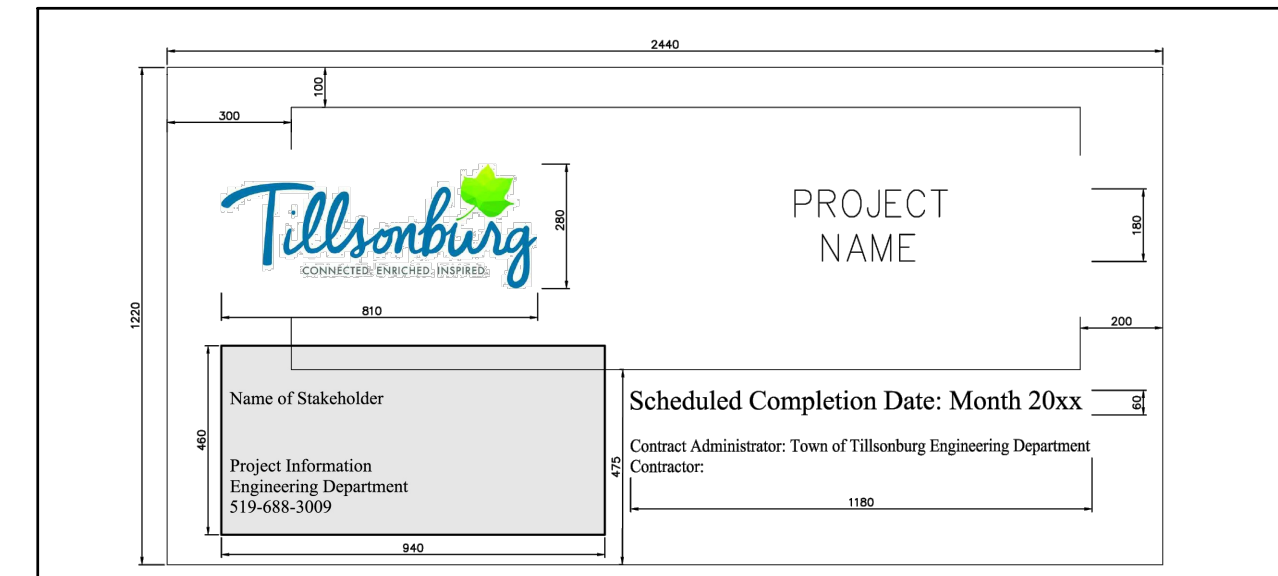
GENERAL NOTES

- TIME IS OF THE ESSENCE, REFER TO CONTRACT DOCUMENTS.
- ALL WATER AND SANITARY WORKS SHALL BE IN ACCORDANCE WITH OXFORD COUNTY DESIGN GUIDELINES AND SPECIFICATIONS.
- THE INSTALLATION AND CONSTRUCTION OF STORM SEWERS AND ROADWORKS SHALL BE IN ACCORDANCE WITH THE TOWN OF TILLSONBURG, SUBDIVISION AND DEVELOPMENT GUIDELINES, DESIGN CRITERIA.
- JOINT UTILITY TRENCH— THE SERVING CONTRACTOR SHALL INSTALL DUCTS FOR UTILITY ROAD CROSSING PRIOR TO PLACING GRAVEL ROAD BASE. ROAD CROSSING MUST BE SCHEDULED IN COOPERATION WITH TILLSONBURG HYDRO INC. (DEREK SCHONWILLE 842-9200) WITH 72 HRS. (MIN) NOTICE REQUIRED.
- THE LOCATION OF UTILITIES IS APPROXIMATE ONLY AND SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING ALL POTENTIALLY CONFLICTING UTILITIES, INCLUDING EXISTING WATERMANS AND SEWERS FOR GRADE CHECKS BEFORE LAYING ANY PIPES. THE CONTRACTOR SHALL PERMIT REASONABLE ACCESS TO UTILITY COMPANIES TO ADJUST UTILITIES IN CONFLICT.
- THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE STARTING CONSTRUCTION. ALL CHANGES ARE ALONG CENTRELINE OF ROAD ALLOWANCES OR SEWER EASEMENTS UNLESS OTHERWISE NOTED.
- DATUM IS GEODETIC, RELATED TO MNN BENCHMARK 20088001, A BRASS TABLET SET FLUSH IN CONCRETE CULVERT ON WEST SIDE OF HWY 19, 0.35km SOUTH OF KESWICK ROAD. CVD28:78 ELEVATION 268.990m; OTHER BENCHMARKS SHOWN ON THE DRAWINGS ARE NOT GUARANTEED BY CYRIL J. DEMEYERE LIMITED. THE CONTRACTOR MUST USE MORE THAN ONE BENCHMARK FOR ANY LAYOUT AND MUST IMMEDIATELY REPORT ANY ELEVATION DIFFERENCES IN THE BENCHMARKS USED TO CYRIL J. DEMEYERE LIMITED. CYRIL J. DEMEYERE LIMITED WILL THEN CONFIRM THE CORRECT BENCHMARK ELEVATION TO BE USED FOR LAYOUT.
- THE CONTRACTOR SHALL MAINTAIN THE FLOW OF ALL EXISTING DRAINS ENCOUNTERED, WHETHER SHOWN ON DRAWINGS OR NOT AND SHALL, WHERE REQUESTED, CONNECT THE DRAINS INTO STORM SEWERS. ANY ABANDONED PIPES NOT REMOVED SHALL BE CAPPED OR SEALED WITH CEMENT MORTAR.
- GAS LINES MUST BE SUPPORTED IN ACCORDANCE WITH ENBRIDGE GAS SPECIFICATIONS FOR GAS LINE SUPPORTS.
- ALL SEWERS AND WATERMANS, INCLUDING CATCHBASIN LEADS AND PRIVATE DRAIN CONNECTIONS, WHETHER EXISTING OR INSTALLED BY THIS CONTRACT, WHICH ARE EXPOSED BY A TRENCH, EXCAVATED FOR A PIPE CROSSING TO BE INSTALLED AT A LOWER GRADE OR UNDERMINED FOR ANY OTHER REASON, SHALL BE SUPPORTED WITH WELL COMPACTED STONE BEDDING EXTENDING TO THE LOWER PIPE BEDDING. THE DIFFERENCE IN PIPE ELEVATIONS IS SUFFICIENT TO ALLOW COMPACTION OF BACKFILL BELOW THE UNDERMINED PIPE WITH A HOE PAC, THE REQUIREMENT OF STONE WILL MAY BE REDUCED TO THE DEPTH OF BEDDING INACCESSIBLE BY HOE PAC.
- PIPE BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE SEWER AND SERVING DETAIL DRAWING. CLEAN BACKFILL (SAND & CLAY) IS ACCEPTABLE. ALL TRENCH BACKFILL SHALL BE UNIFORMLY COMPACTED IN ACCORDANCE WITH SPECIFICATIONS. MANHOLES AND CATCHBASINS SHALL HAVE GRANULAR BACKFILL PLACED FOR 300 mm MINIMUM ON ALL SIDES.
- ALL MANHOLES ARE 1200mmØ UNLESS OTHERWISE SHOWN IN PROFILE. MANHOLES SHALL BE ADJUSTED TO GRADE OF THIS CONTRACT; SEE TYPICAL X-SECTIONS.
- STORM AND SANITARY PDC'S SHALL BE LAID AT MINIMUM GRADE UNLESS RECOMMENDED DEPTHS ARE EXCEEDED OR A GRADE CONFLICT WILL RESULT. MARKERS FOR SANITARY PDC'S MUST BE PAINTED BEFORE STORM PDC'S ARE INSTALLED. DEVIATIONS FROM MINIMUM GRADE/DEPTH MUST BE APPROVED BY THE ENGINEER. SANITARY AND STORM LATERALS TO BE PLACED 1.0m PAST PROPERTY LINE. MINIMUM DEPTH OF SANITARY SERVICES AT PROPERTY LINE IS 2.4m. STORM PDC'S AND CATCHBASIN LEADS SHALL NOT BE CONNECTED TO STORM MAINLINE WITHIN 1.2m ON EITHER SIDE OF A MAINLINE PIPE BEND.
- ALL SEWERS, INCLUDING MAINLINES, CB LEADS AND PDC'S, SHALL MAINTAIN A MINIMUM OF 500mm VERTICAL CLEARANCE FROM OUTSIDE OF PIPE WHEN CROSSING OVER WATERMANS AND MINIMUM 150mm VERTICAL CLEARANCE WHEN CROSSING UNDER WATERMANS.
- AS PER TOWN OF TILLSONBURG DESIGN CRITERIA, EXTERNAL DROP STRUCTURES PER OPSD 1003.010 SHALL BE PROVIDED IN STORM MANHOLES WHEN THE DIFFERENCE IN ELEVATION BETWEEN INVERTS OF AN INLET PIPE AND AN OUTLET PIPE EXCEED 0.9m.
- AS PER OXFORD COUNTY DESIGN GUIDELINES, EXTERNAL DROP STRUCTURES PER OPSD 1003.010 SHALL BE PROVIDED IN SANITARY MANHOLES WHEN THE DIFFERENCE IN ELEVATION BETWEEN INVERTS OF AN INLET PIPE AND AN OUTLET PIPE EXCEED 0.6m.

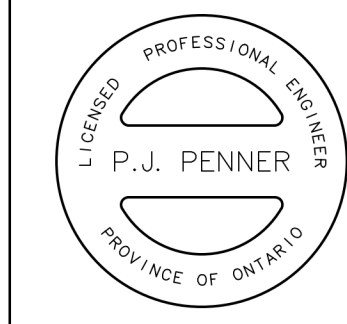
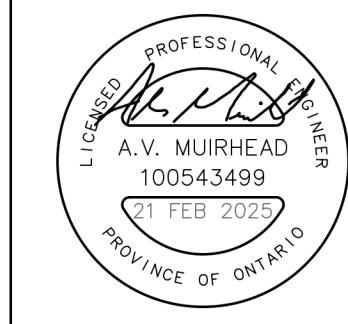
WATERMAIN AND SERVICES

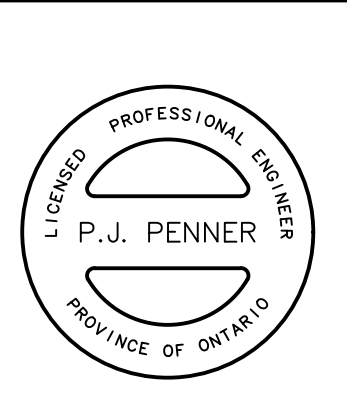
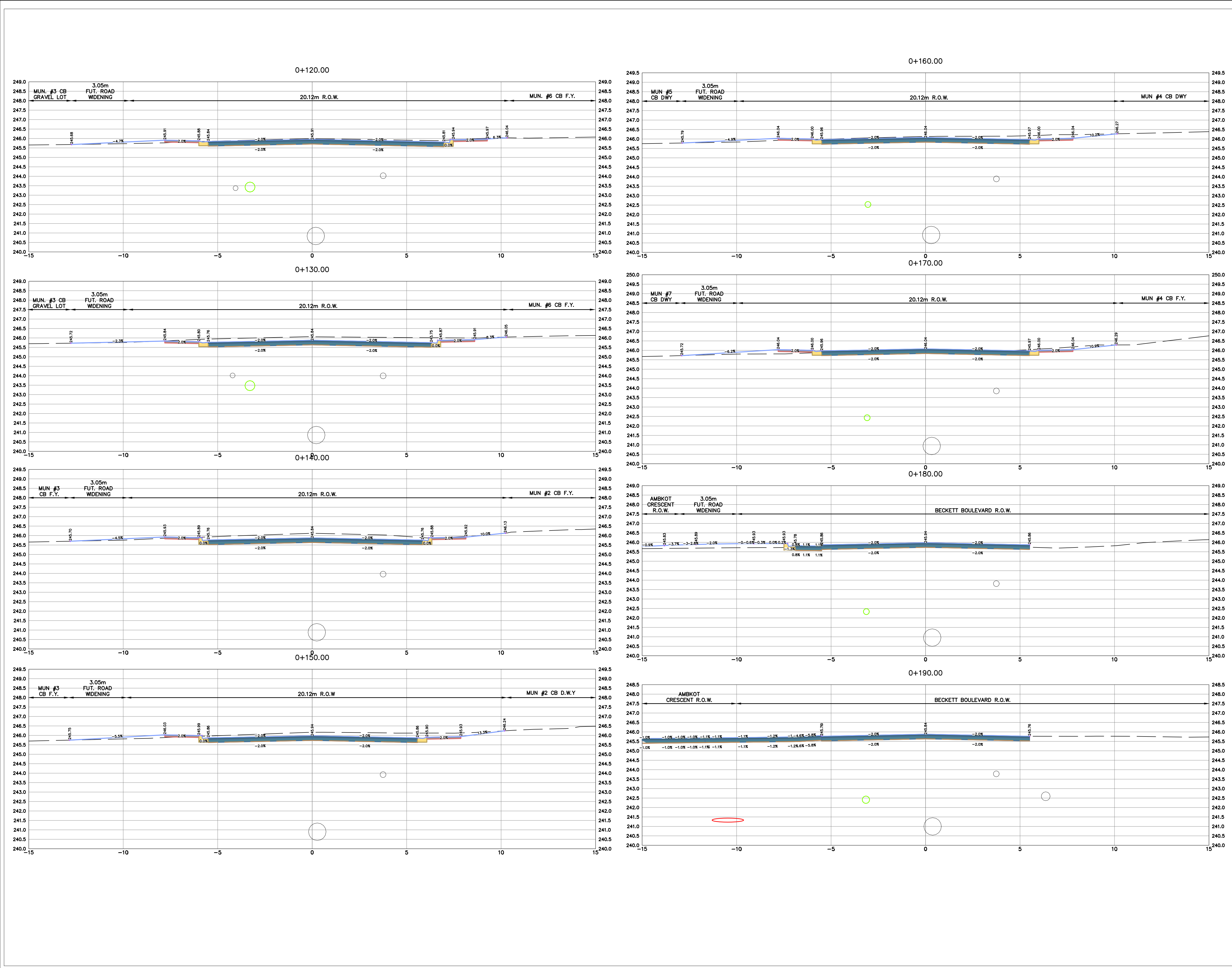
- ALL VALVES MUST BE OPERATED BY THE TOWN OF TILLSONBURG WATER DEPT.
- WATERMAIN SHALL BE INSTALLED TO GRADES SHOWN. MAXIMUM PERMISSIBLE JOINT DEFLECTION ON PVC WATERMAIN PIPE SHALL BE 2.0" (0.21 m PER 6.1 m LENGTH). BENDING OF PIPE BARREL IS NOT ALLOWED. CONTRACTOR SHALL USE SHORTENED PIPE OR FACTORY BENDS WHERE NECESSARY OR AS NOTED TO MAINTAIN DESIGN ALIGNMENT SUBJECT TO THE APPROVAL OF THE ENGINEER. SEPT HYDRANT AND VALVE BOXES TO DESIGN GRADES SHOWN ON PROFILES ON THIS CONTRACT.
- ALL NON-METALIC WATER SERVICES SHALL BE MINIMUM 25mmØ CTS AS PER OXFORD COUNTY DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS. SERVICE MATERIAL AS PER OXFORD COUNTY DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS.
- FUTURE USE SERVICES TO RECEIVE 160 POLY RISERS TO THE SURFACE TO BLOW OFF AIR AND CHLORINE.
- THRUST RESTRAINT SHALL BE PLACED ON EXISTING WATERMAIN PIPE AT CONNECTIONS TO NEW WATERMAIN IN ACCORDANCE WITH COUNTY DESIGN GUIDELINES. PAYMENT IS INCLUDED IN LUMP SUM BID FOR CONNECTIONS.
- ANODES WILL BE REQUIRED ON EXISTING CAST OR DUCTILE IRON WATERMAIN AT POINTS OF CONNECTION. HYDRANT BOOTS AND VALVES SHALL BE EPOXY COATED.
- DECLORINATION OF WATER USED FOR WATERMAIN DISINFECTION IS REQUIRED PRIOR TO RELEASE TO STORM SEWER.
- DENSO PASTE AND TAPE IS REQUIRED ON ALL NON-STAINLESS STEEL OR EPOXY COATED NUTS, BOLTS AND THRUST RESTRAINTS.
- HYDRANTS, HYDRANT VALVES AND MAINLINE VALVES SHALL OPEN COUNTER-CLOCKWISE.
- TEMPORARY CAPPING OF EXISTING WATERMANS REQUIRED TO MAINTAIN SERVICE AND ALLOW INSTALLATION OF THE NEW WATERMAIN ARE TO BE INCLUDED IN PIPE PRICES.
- THRUST RESTRAINT FOR PRESSURE MAINS SHALL BE IN ACCORDANCE WITH THE OXFORD COUNTY DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS.
 - ALL FITTINGS, BENDS, TEES, HYDRANT TEES, VALVES, CROSSES, REDUCERS UP TO 200mmØ SHALL BE RESTRAINED TO THE PIPE ALONG WITH A MINIMUM OF 3 FULL PIPE LENGTH JOINTS (18m) MEASURED FROM EACH SIDE OF APPURTENANCE
 - ALL 250mmØ TO 300mmØ FITTINGS, BENDS, TEES, HYDRANT TEES, VALVES, CROSSES, REDUCERS SHALL BE RESTRAINED TO THE PIPE ALONG WITH A MINIMUM OF 4 FULL PIPE LENGTH JOINTS (24m) MEASURED FROM EACH SIDE OF APPURTENANCE.
 - PLUGGED OR CAPPED DEAD-ENDS UP TO 200mmØ SHALL BE RESTRAINED TO THE PIPE ALONG WITH A MINIMUM OF 4 FULL PIPE LENGTH JOINTS (24m) MEASURED FROM END OF PIPE.
 - ALL 250mmØ TO 300mmØ PLUGGED OR CAPPED DEAD-ENDS SHALL BE RESTRAINED TO THE PIPE ALONG WITH A MINIMUM OF 6 FULL PIPE LENGTH JOINTS (36m) MEASURED FROM THE END OF PIPE.
- ALL WATER SERVICES TO HAVE 0.5m SEPARATION FROM STORM SERVICES. INSULATE AS REQUIRED.
- TRACER WIRE SHALL BE IN ACCORDANCE WITH OXFORD COUNTY DESIGN GUIDELINES AND SPECIFICATIONS INCLUDING DETAIL D 1846-1-2009 ON WATERMAIN DETAILS DRAWING. TRACER WIRE CONNECTIONS TO BE INSTALLED AS PER OXFORD COUNTY DETAIL D1858-1-2016 ON WATERMAIN DETAILS DRAWING.

- THE WIDTH OF GRANULAR BASE SHALL BE AS PER CROSS-SECTIONS. RADII SHOWN ARE TO BACK OF CURB.
- THE CONTRACTOR SHALL AVOID DAMAGE TO EXISTING FENCES, TREES AND PAVEMENT AND SHALL BE RESPONSIBLE FOR THE COST OF ANY REPAIRS. TRACKING OF CLEATED EQUIPMENT WILL NOT BE PERMITTED ON PAVED SURFACES.
- THE CONTRACTOR MUST USE LASER EQUIPMENT FOR GRADING OPERATIONS. INSTALL 1.8 m T-RAIL STEEL FENCE POSTS AT ALL R.O.W. PROPERTY BARS (OR AT WOOD STAKES IF PROPERTY BARS NOT INSTALLED) BEFORE COMMENCING CONSTRUCTION IF REQUESTED. T-RAILS SHALL BE LOCATED 150 mm ON STREET SIDE WITH "T" POINTING TO BAR. THE CONTRACTOR MUST NOT DISTURB THIS CONTROL.
- THE EARTH GRADING CONTRACTOR HAS STRIPPED THE TOPSOIL TO 27.0m ONTO THE LOTS AND STOCKPILED AS DIRECTED ON SITE. THE MATERIAL ALONG WITH HIGH SPOTS IN THE R.O.W. AND HIGH LOTS WAS USED TO RAISE THE R.O.W TO 0.4m BELOW D.P.G AND 3m BEYOND THE FRONT PROPERTY LINE. THE SERVING CONTRACTOR SHALL CONSTRUCT THE ROADWAY TO SUBGRADE AND BUILD BOULEVARDS TO FINISHED GRADE. EARTH FILL, INCLUDING TRENCH BACKFILL, MUST BE PLACED IN 300mm MAX. UNIFORM HORIZONTAL LIFTS (ALL CLAY LUMPS MUST BE CRUSHED) AND COMPACTED TO 95% PROCTOR. INTERFACES OF FILL WITH ALL SLOPES MUST BE KEPT WITH 300mm MAX. STEPS.
- THE SERVING CONTRACTOR SHALL MAINTAIN ROAD CLEANLINESS ON A DAILY BASIS THROUGHOUT THE DURATION OF THE CONTRACT WHICH WILL INCLUDE SWEEPING ON A DAILY BASIS WHERE AND WHEN REQUIRED OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR. THE COST OF WHICH IS TO BE INCLUDED IN APPROPRIATE UNIT PRICES.
- SILT MIGRATION — THE CONTRACTOR SHALL INSTALL SILT FENCES AND PLACE STRAW BALES AS NECESSARY TO ADDRESS SILT MIGRATION TO THE SATISFACTION OF THE MINISTRY OF NATURAL RESOURCES, LONG POINT REGION CONSERVATION AUTHORITY, MINISTRY OF THE ENVIRONMENT OR ANY OTHER REGULATORY AGENCY OR MINISTRY AND, IN PARTICULAR, TO THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES (MNR). THE CONTRACTOR SHALL ASSUME THE DEFENSE OF AND INDEMNIFY AND SAVE HARMLESS THE TOWN OF TILLSONBURG, COUNTY OF OXFORD, THE OWNER, AND CYRIL J. DEMEYERE LIMITED FROM ALL FINES, CHARGES AND CLAIMS RELATING TO THE PROJECT FROM ANY REGULATORY AGENCY OR MINISTRY.
- THE SITE SERVING CONTRACTOR MUST DRAIN THE STORMWATER MANAGEMENT POND IN ORDER TO INSTALL THE OUTLET STRUCTURES.
- DECOMMISSIONING OF ANY ABANDONED PRIVATE SERVICES SHALL BE IN ACCORDANCE WITH THE ONTARIO WATER RESOURCES ACT, R.S.O 1990 (ONTARIO REGULATION NUMBER 903).
- ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE SEEDED WITH A MIXTURE OF: 55% KENTUCKY BLUE GRASS
25% CREEPING RED FESCUE
20% PERENNIAL RYE GRASS
ALL AT A RATE OF 175kg/ha.
A CELLULOSE MULCH SHALL BE APPLIED AT A RATE OF 1700kg/ha.



SCALES AS SHOWN				TOWN OF TILLSONBURG						
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM	<p>Cyril J. Demeyere Limited P.O. Box 460, 261 Broadway Tillsonburg, Ontario, N4G 4H8 Tel: 519-688-1000 866-302-9886 Fax: 519-842-3235 cjd@cdjeng.com</p> <p>CRANBERRY ROAD RECONSTRUCTION RFT20XX-XXX TOWN OF TILLSONBURG GENERAL NOTES & MISCELLANEOUS DETAILS</p>						
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM							
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC							
No.	REVISION	DATE	BY							
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM	DESIGN BY: AVM	DRAWN BY: AK/GD	CHECKED BY: PJP	PROJECT NO. 22014	SURVEY BY: TFM	DATE: 02 AUG 2022	DRAWING No.





METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
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TOWN OF TILLSONBURG

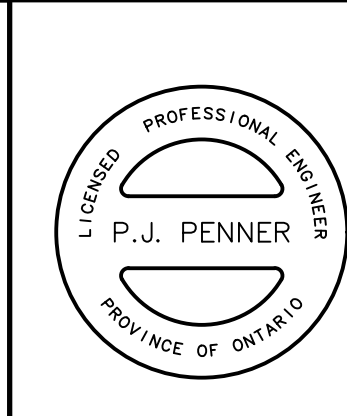
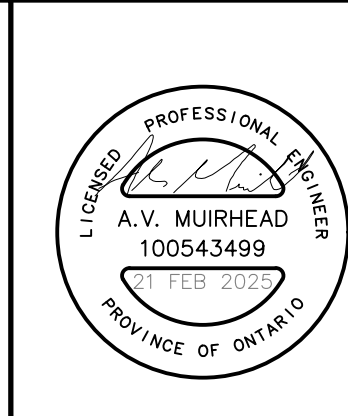
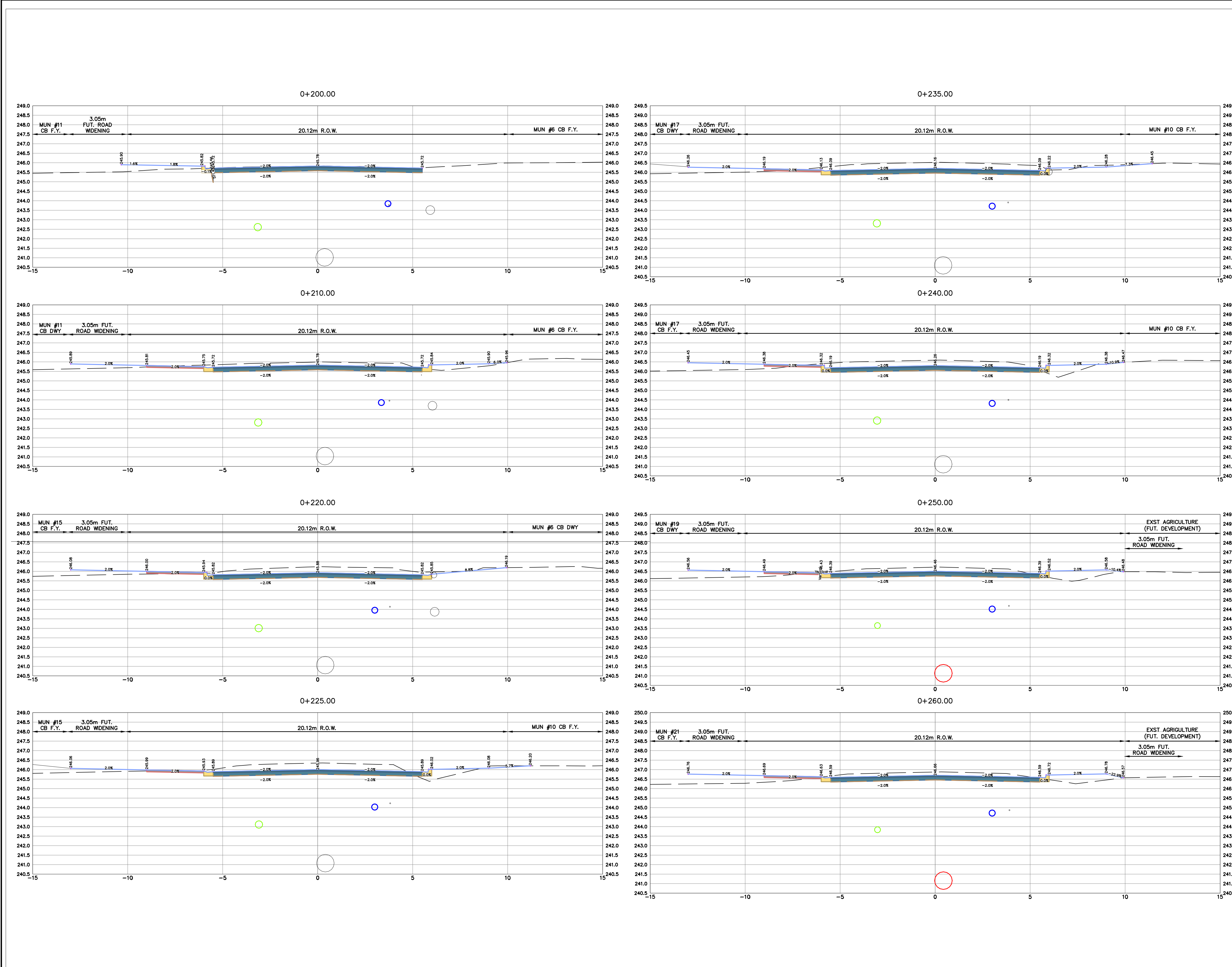
CJDL
Consulting Engineers

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Tel: 519-688-1000
866-302-9886
Fax: 519-842-3235
cjd@cjdle.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+120 TO
0+190

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
SURVEY BY: TPM DATE: 02 AUG 2022

DRAWING No. **14**



METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
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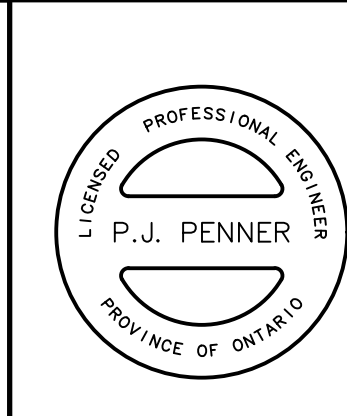
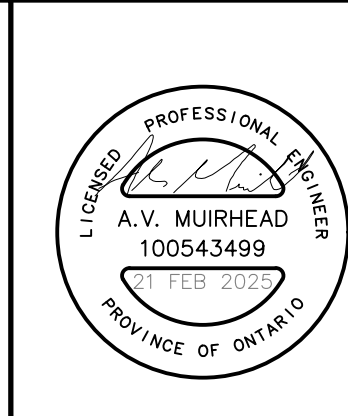
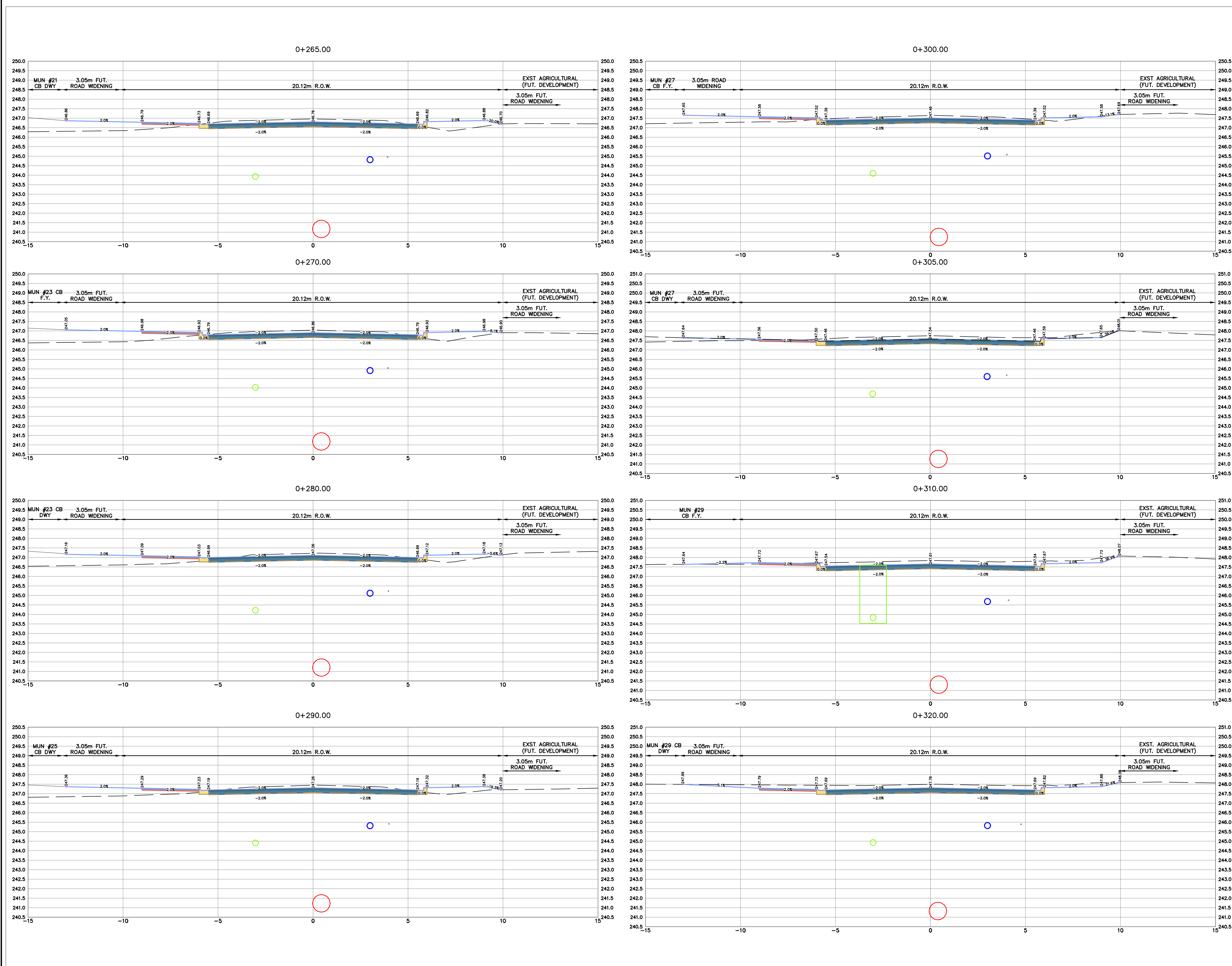
TOWN OF TILLSONBURG

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CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+200
TO 0+260

DESIGN BY: AVM | DRAWN BY: AK/GD | CHECKED BY: PJP
PROJECT NO. 22014 | SURVEY BY: TPM | DATE: 02 AUG 2022 | DRAWING No.



METRIC SCALE 1:100

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TOWN OF TILLSONBURG

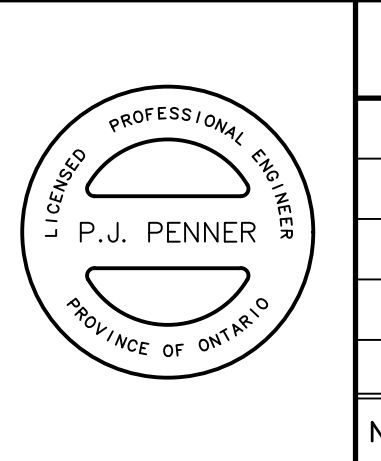
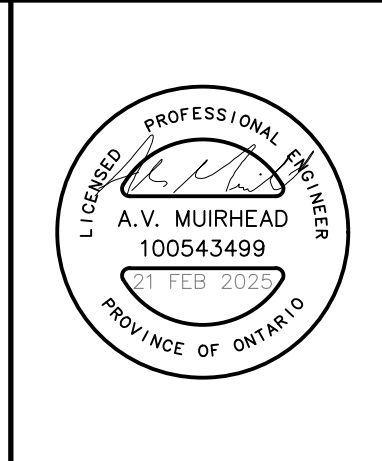
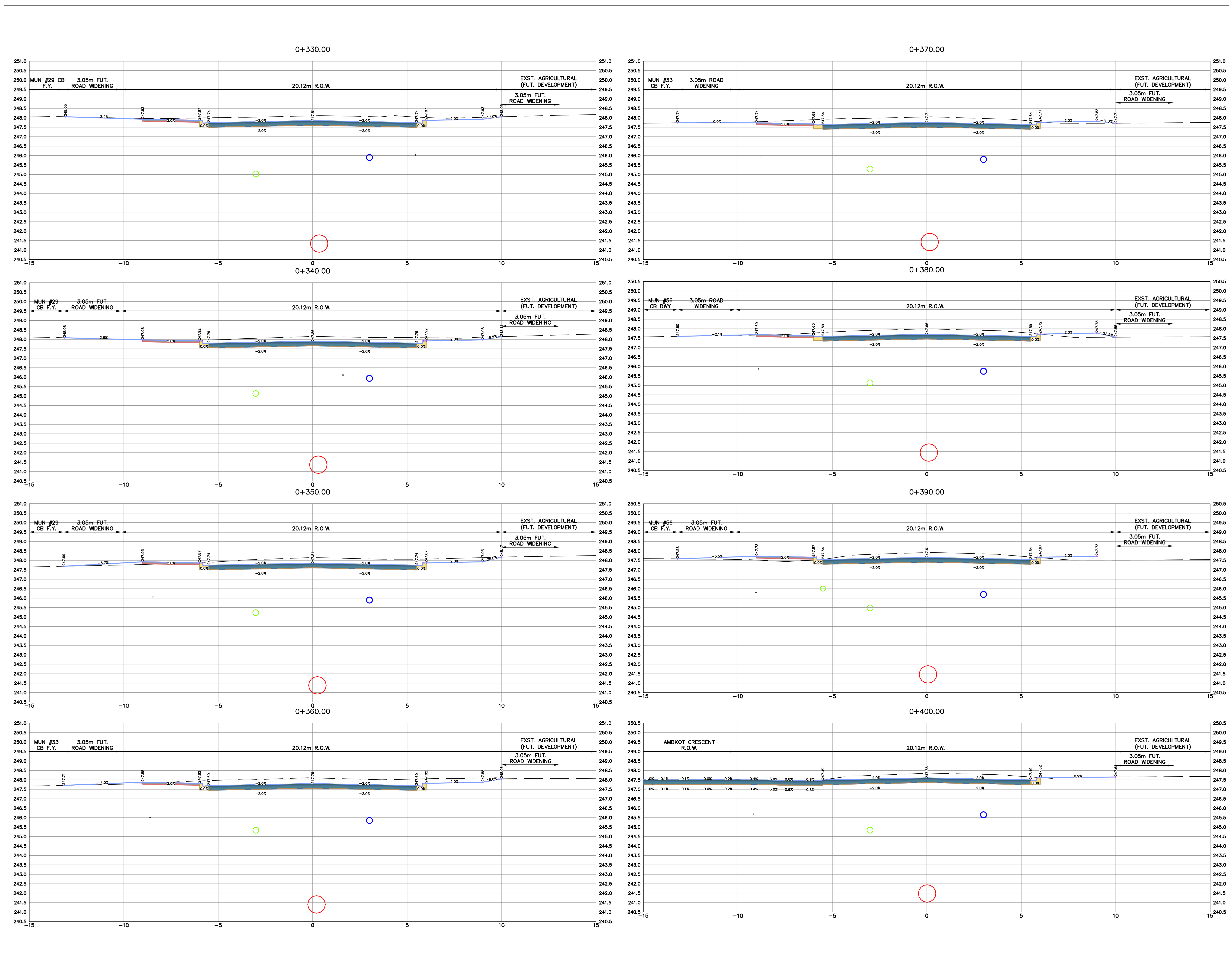
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866-302-9886
Fax: 519-842-3235
cjd@cjdlleng.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+265
TO 0+320

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022

DRAWING No. **16**



METRIC SCALE 1:100

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TOWN OF TILLSONBURG

CJDL
Consulting Engineers

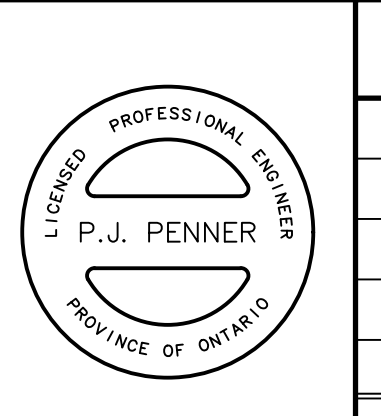
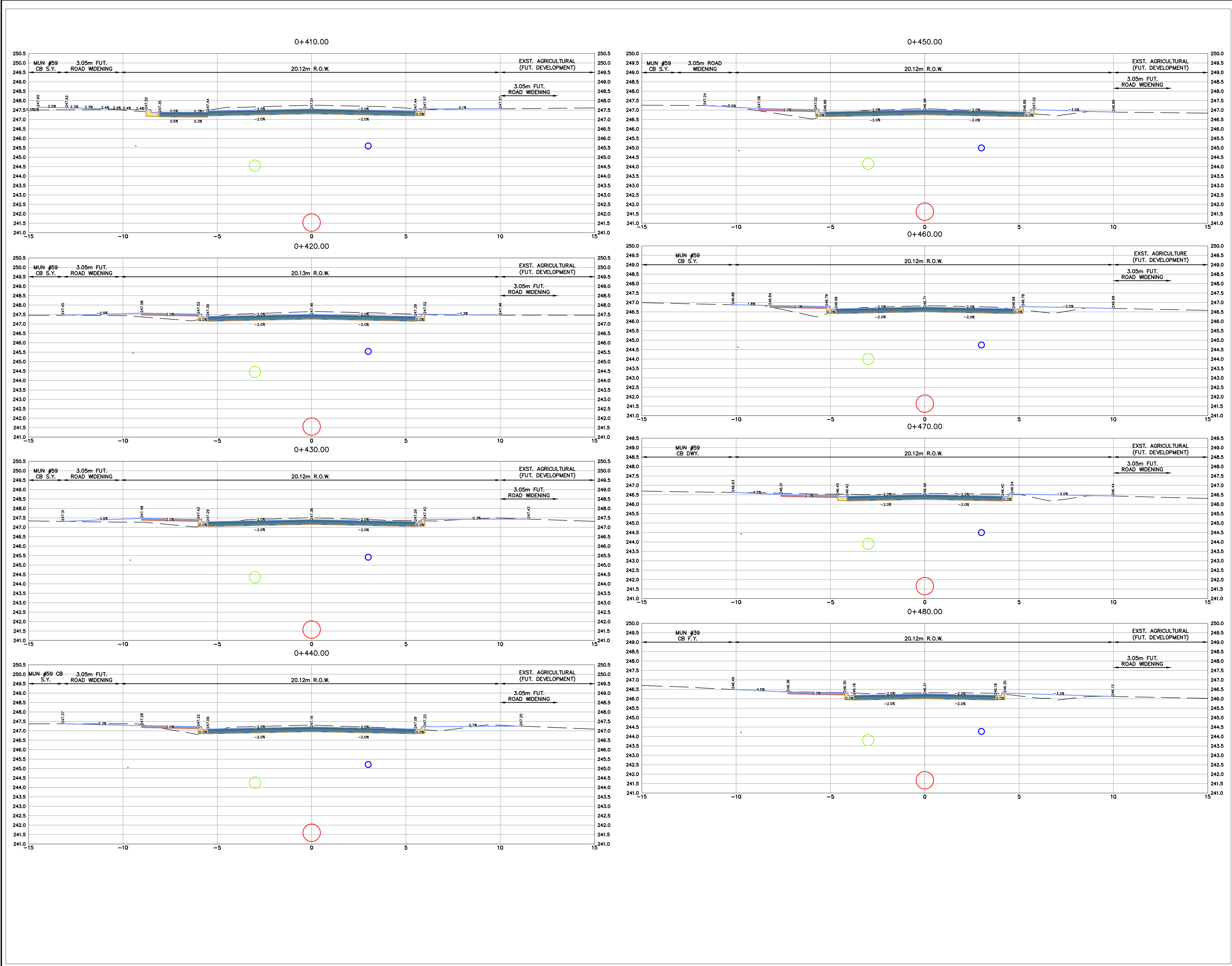
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Fax: 519-842-3235
cjd@cjdlleng.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+330 TO 0+400

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022

DRAWING No. **17**

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METRIC SCALE 1:100

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TOWN OF TILLSONBURG

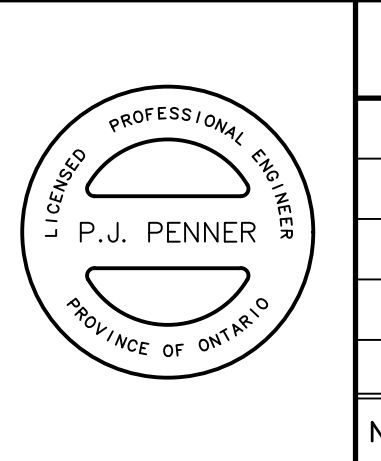
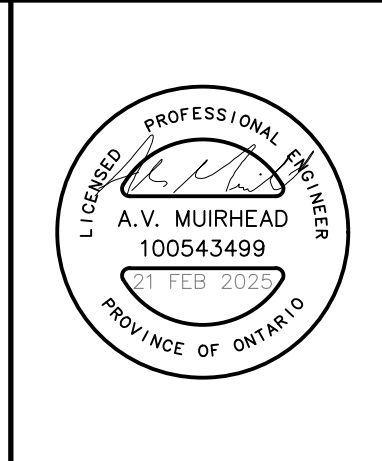
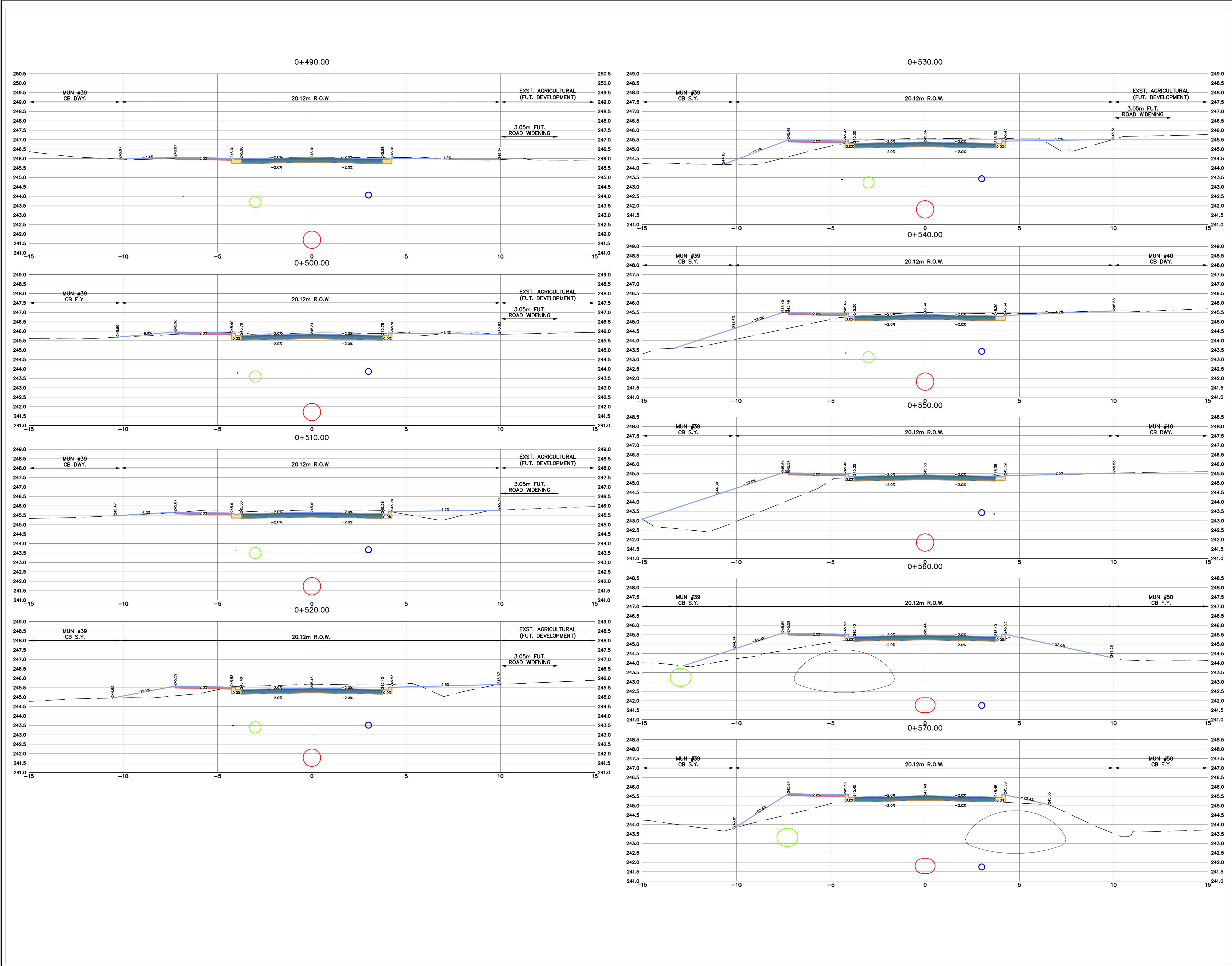
CJDL
Consulting Engineers

Cyril J. Demeyere Limited
P.O. Box 460, 261 Broadway
Tillsonburg, Ontario, N4G 4H8
Tel: 519-689-1000
866-302-9886
Fax: 519-842-3235
cjd@cjdeng.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+410
TO 0+480

DESIGN BY: AVM | DRAWN BY: AK/GD | CHECKED BY: PJP
PROJECT NO. 22014 | SURVEY BY: TPM | DATE: 02 AUG 2022

DRAWING No. **18**



METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

CJDL
Consulting Engineers

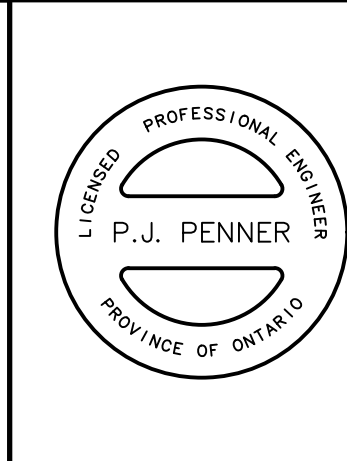
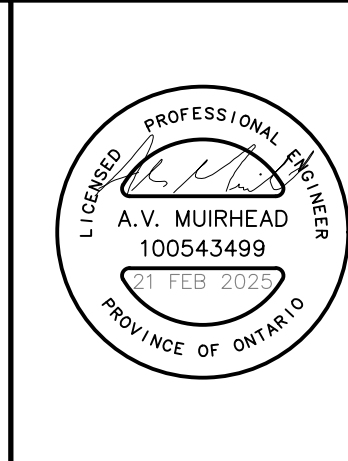
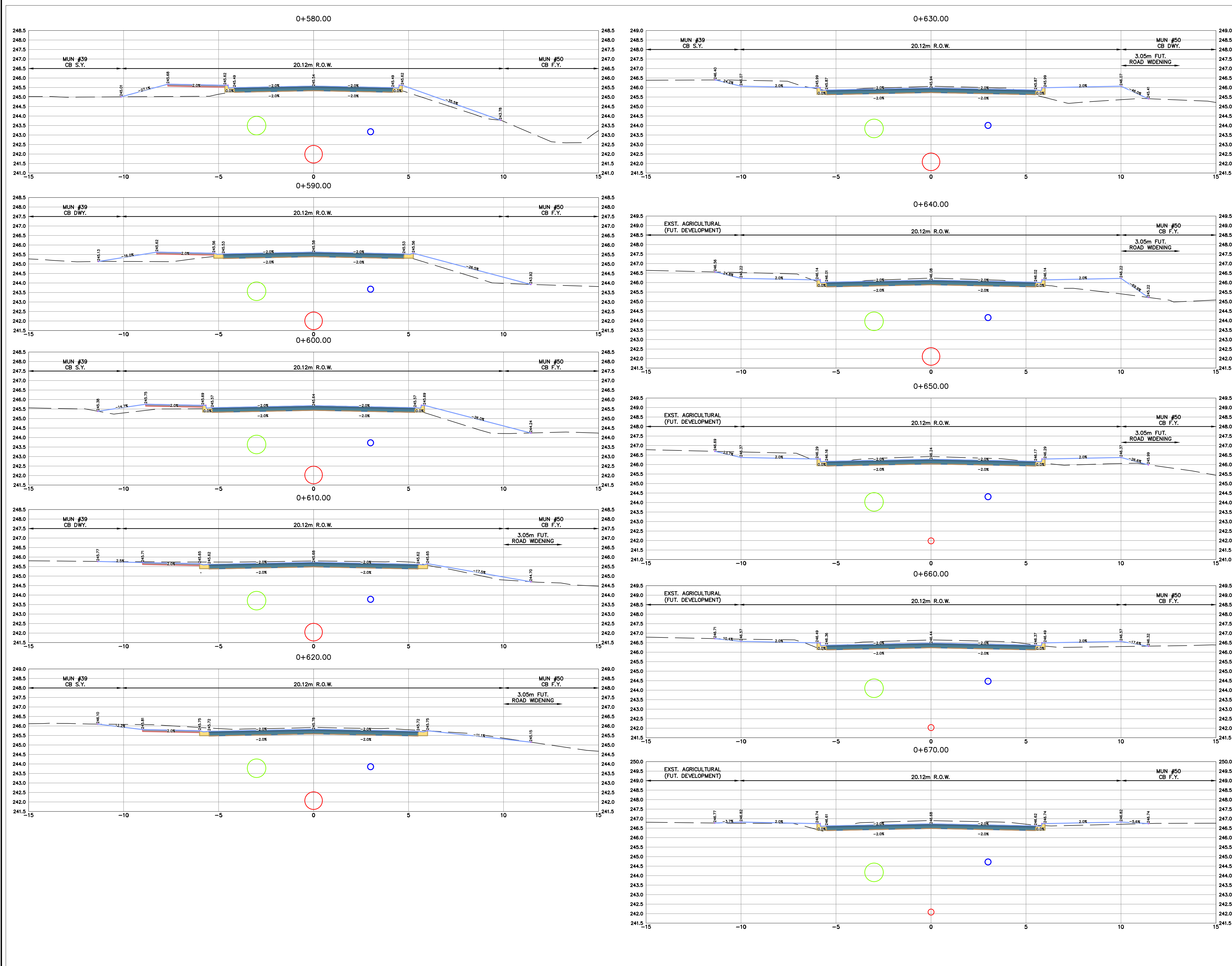
Cyril J. Demeyere Limited
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Tel: 519-686-1000
866-302-9886
Fax: 519-842-3235
cjd@cjdlleng.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+490 TO
0+570

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022

DRAWING No. **19**

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METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

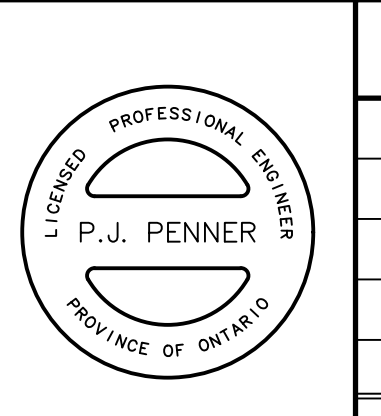
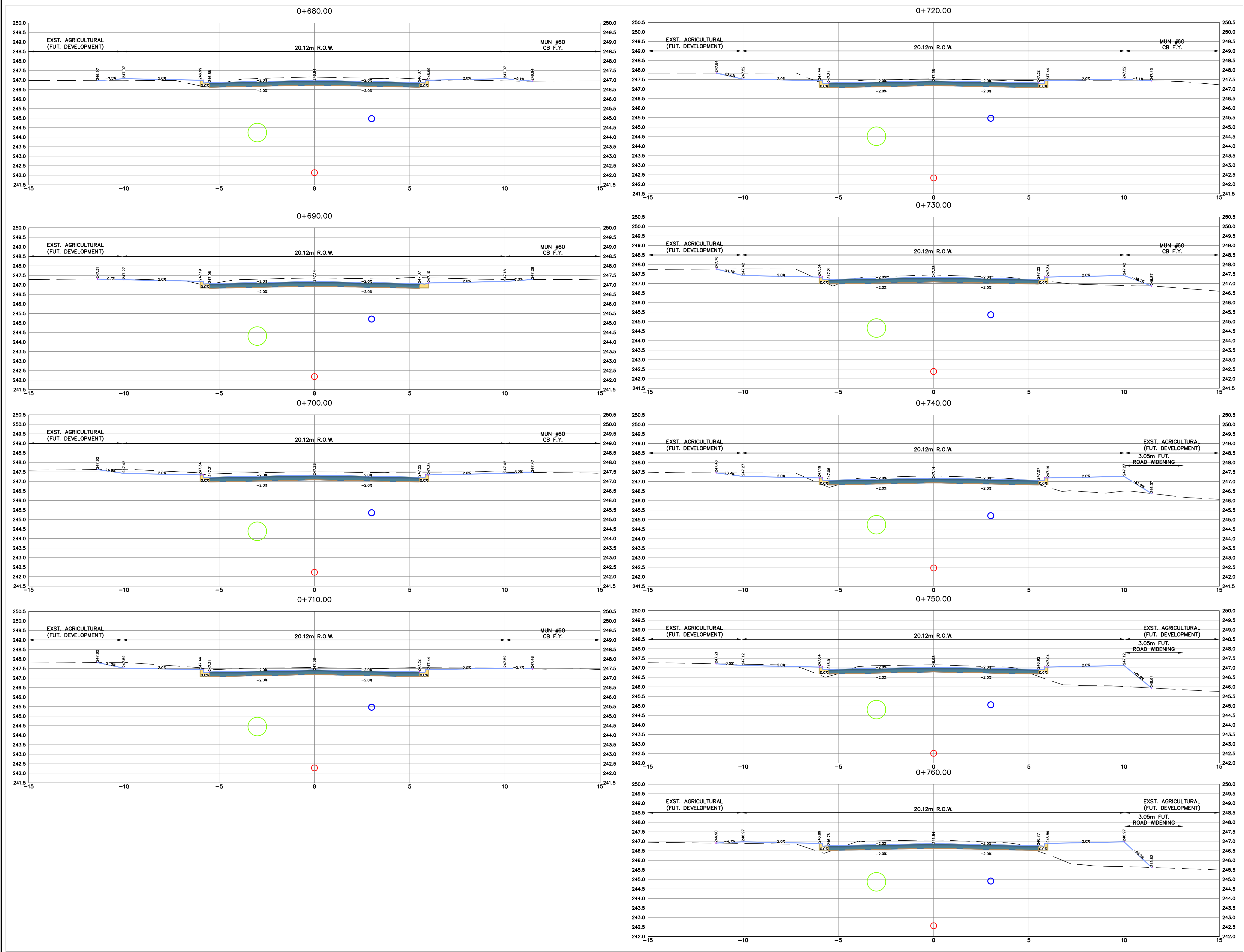
CJDL
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866-302-9886
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cjd@cjdeng.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+580 TO 0+670

DESIGN BY: AVM | DRAWN BY: AK/GD | CHECKED BY: PJP
PROJECT NO. 22014 | SURVEY BY: TFM | DATE: 02 AUG 2022

DRAWING No. **20**



METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

CJDL
Consulting Engineers

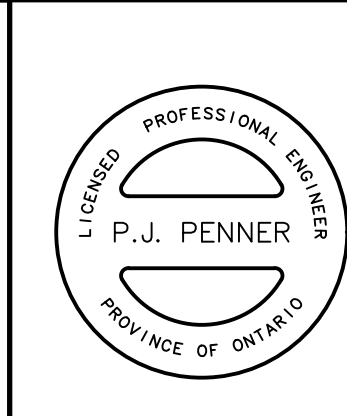
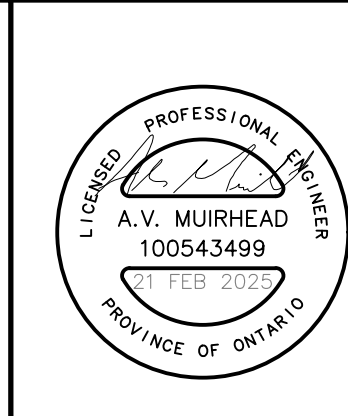
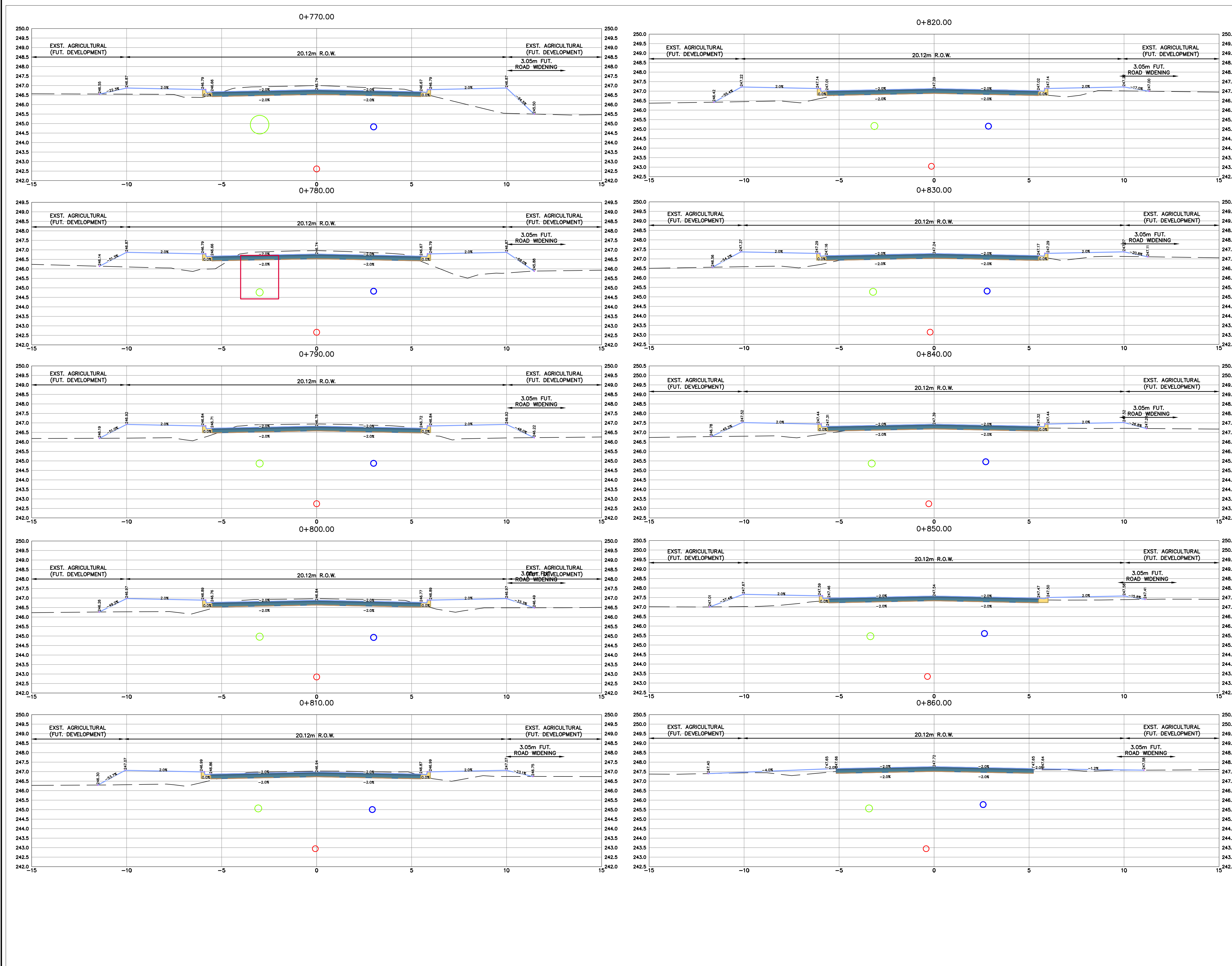
Cyril J. Demeyere Limited
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CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+680 TO
0+760

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
PROJECT NO. 22014 SURVEY BY: TFM DATE: 02 AUG 2022

DRAWING No. **21**

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METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

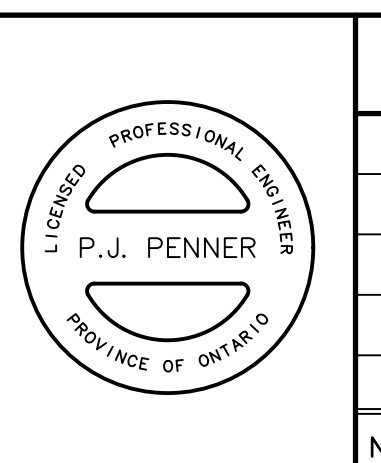
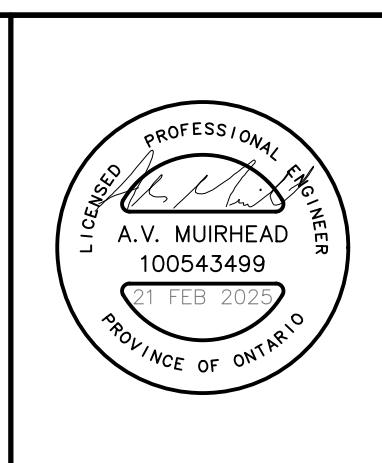
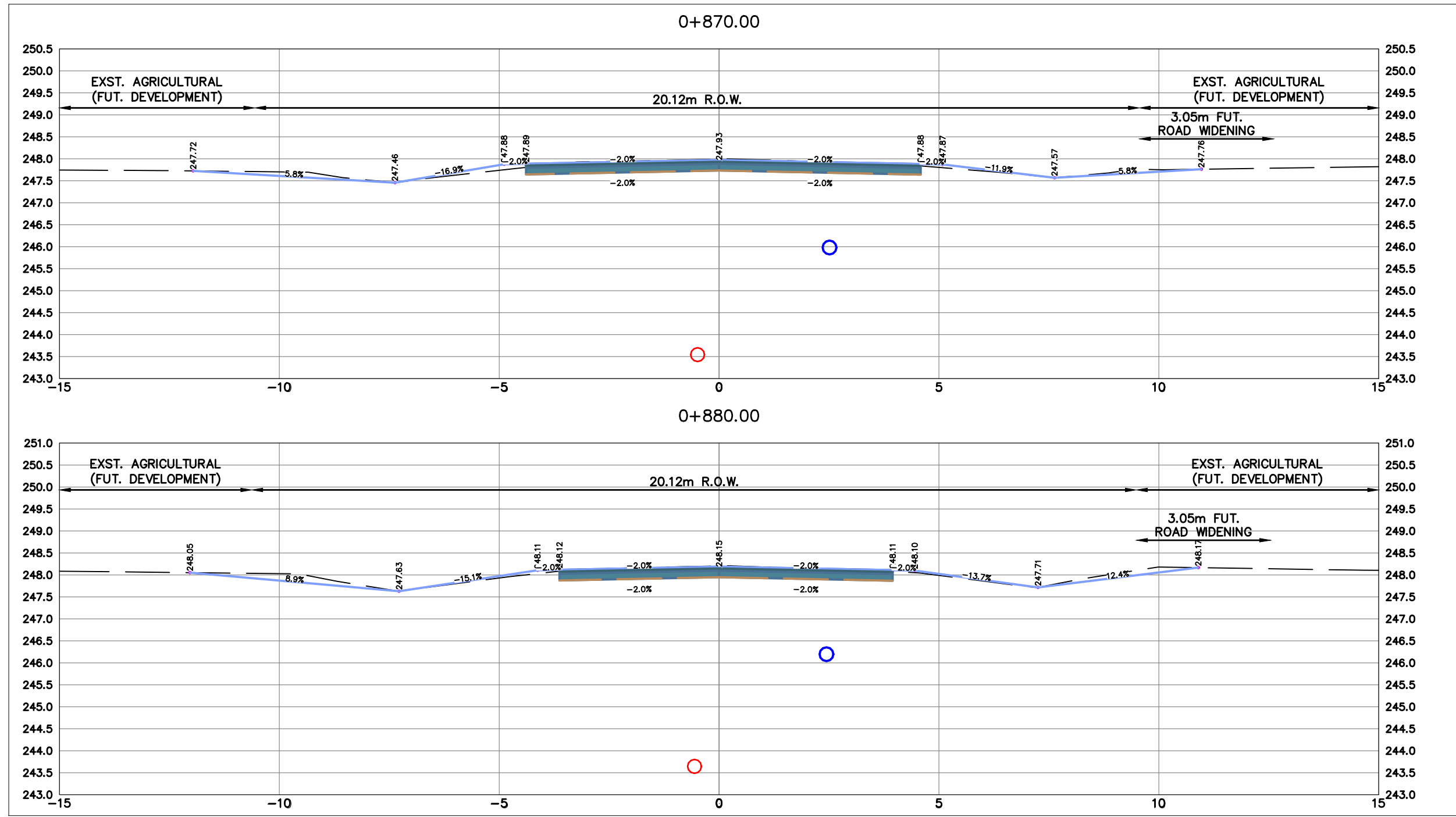
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Fax: 519-842-3235
cjd@cjdlen.com

CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+770
TO 0+860

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
PROJECT NO. 22014 SURVEY BY: TPM DATE: 02 AUG 2022

DRAWING No. **22**



METRIC SCALE 1:100

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

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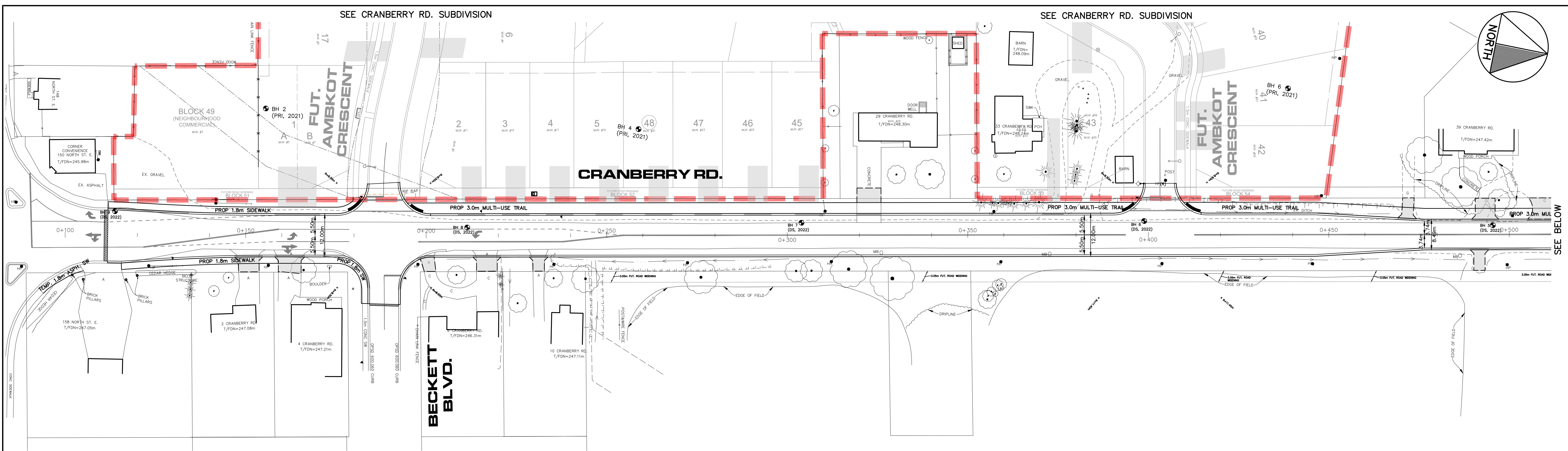
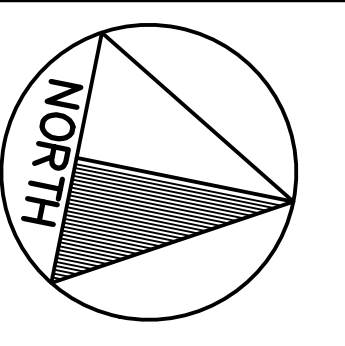
CRANBERRY ROAD RECONSTRUCTION
RFT20XX-XXX
TOWN OF TILLSONBURG
SECTIONS STA 0+870
TO 0+880

DESIGN BY: AVM	DRAWN BY: AK/GD	CHECKED BY: PJP
PROJECT NO. 22014	SURVEY BY: TPM	DATE: 02 AUG 2022

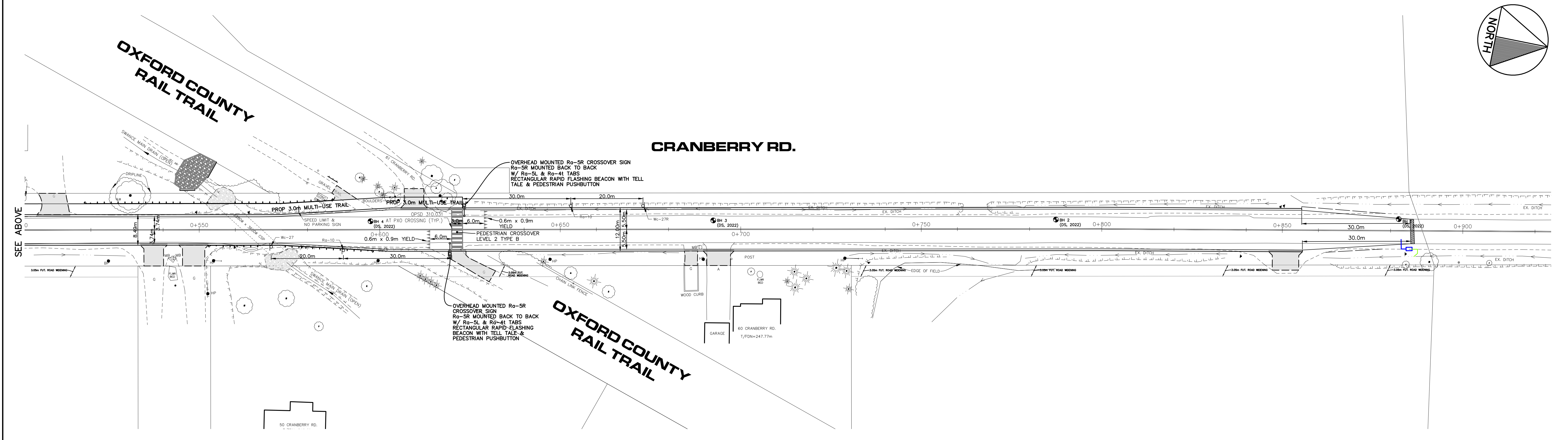
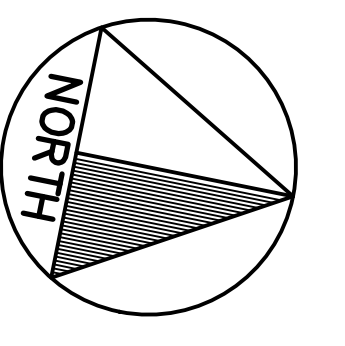
DRAWING No. **23**

SEE CRANBERRY RD. SUBDIVISION

SEE CRANBERRY RD. SUBDIVISION



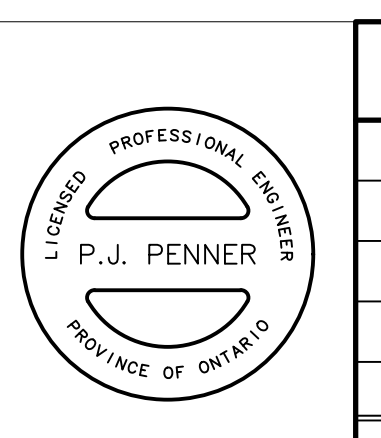
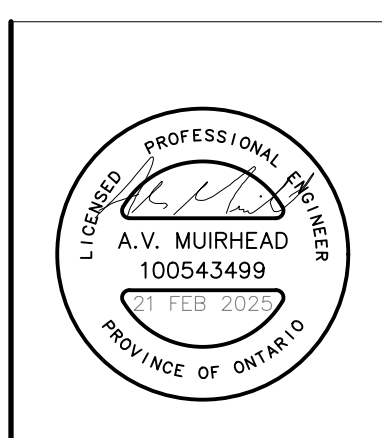
SEE BELOW



LEGEND

	0.4m WHITE STOP BAR
	0.1m SOLID WHITE LINE
	0.1m DASHED WHITE LINE

NOTE:
 1. 2 OUT OF 22 HYDRO POLES REQUIRE RELOCATION BY THI
 2. 3 OUT OF 4 SERVICE POLES REQUIRE RELOCATION BY THI



H. SCALE 1:500

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
1	ISSUED FOR 30% SUBMISSION	25 JAN 2023	CJC

TOWN OF TILLSONBURG

CJDL
Consulting Engineers

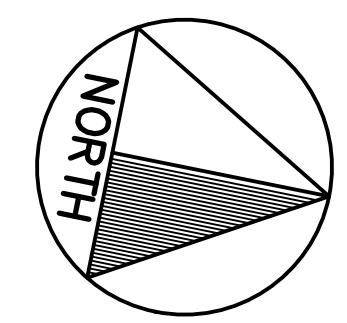
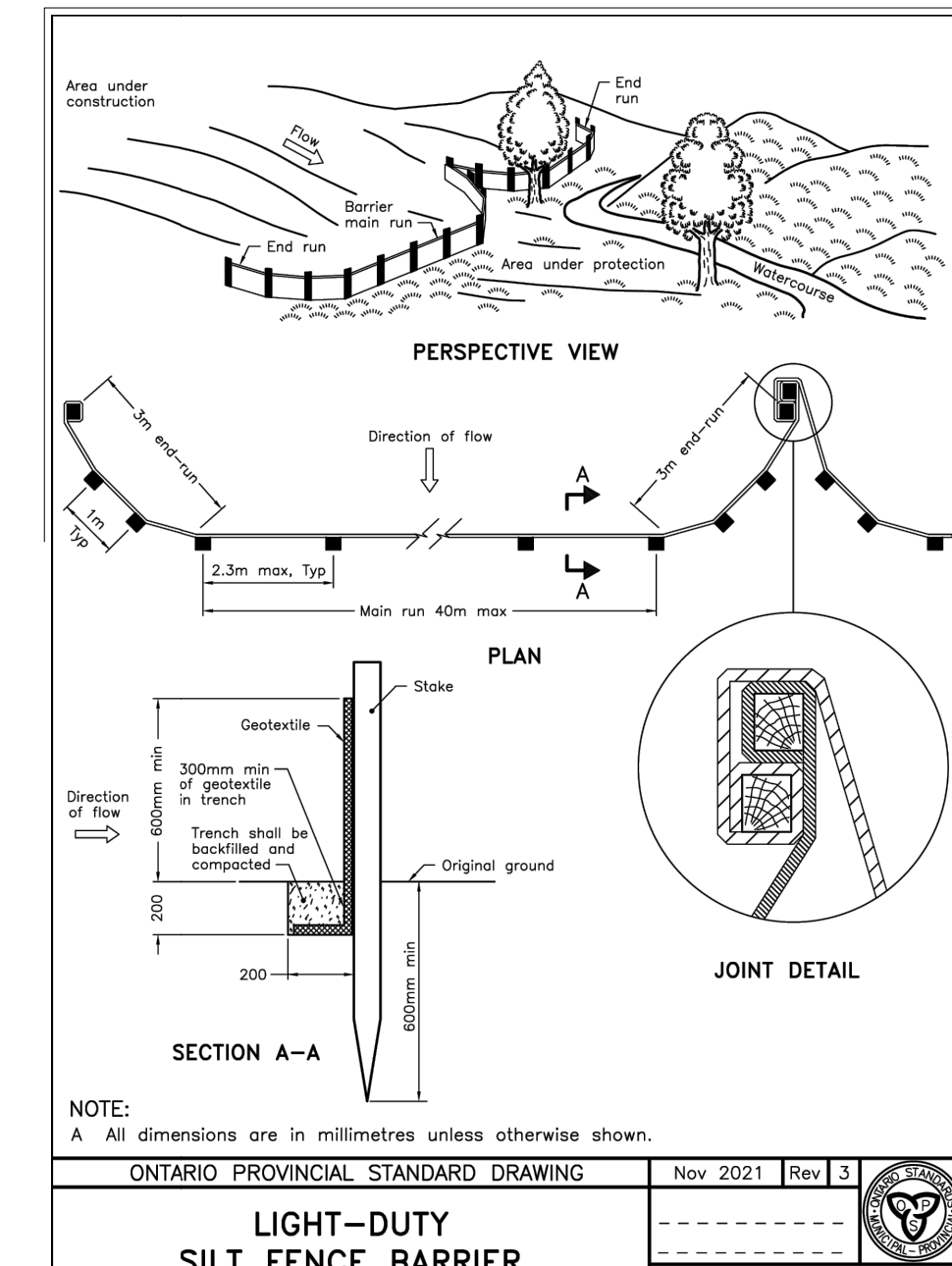
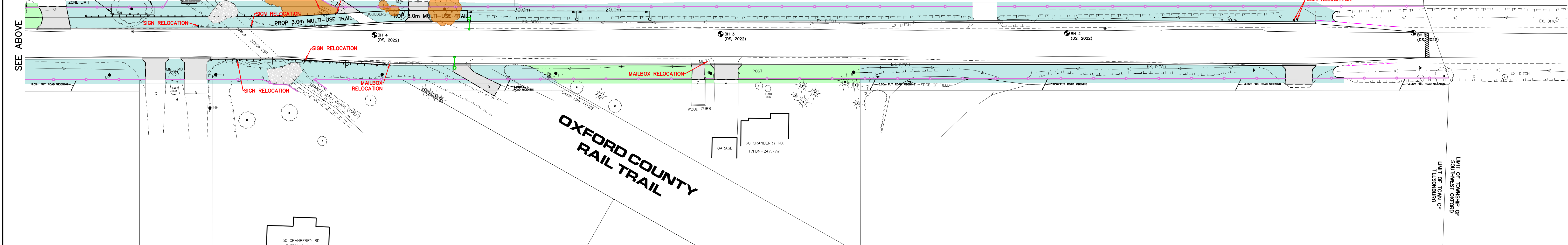
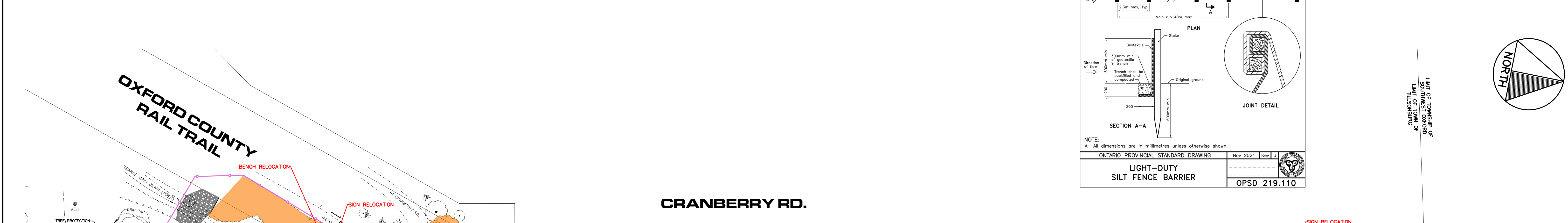
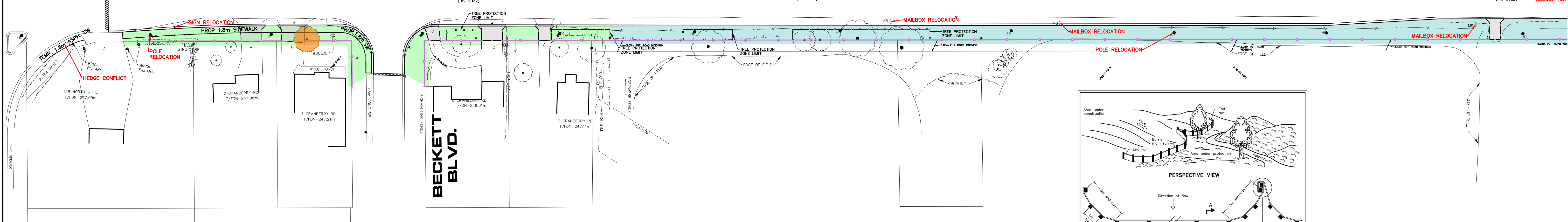
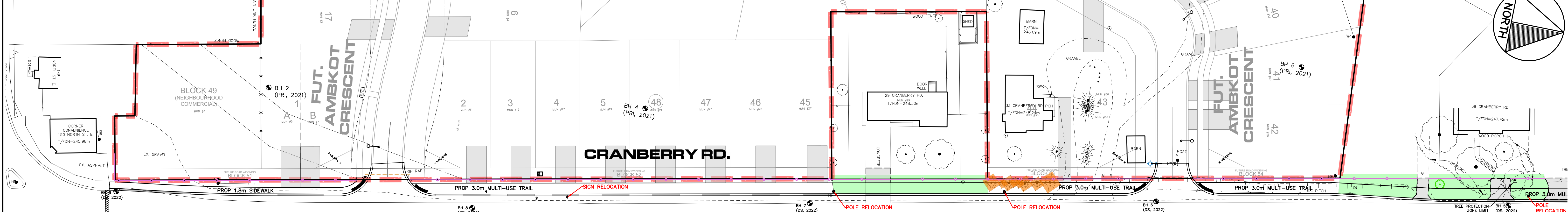
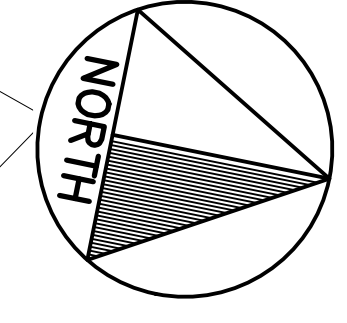
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**CRANBERRY ROAD RECONSTRUCTION
 RFT20XX-XXX
 TOWN OF TILLSONBURG
 LINE PAINTING & SIGNAGE PLAN**

DESIGN BY: AVM DRAWN BY: AK/GD CHECKED BY: PJP
 PROJECT NO. 22014 SURVEY BY: TPM DATE: 02 AUG 2022 DRAWING No. **24**

SEE CRANBERRY RD. SUBDIVISION

SEE CRANBERRY RD. SUBDIVISION



SILT FENCE (TO BE COMPLETED BY SERVICING CONTRACTOR)

LEGEND

	0.4m WHITE STOP BAR		EX. TREE TO REMAIN		HYDROSEED
	0.1m SOLID WHITE LINE		EX. TREE TO BE REMOVED		SOD
	0.1m DASHED WHITE LINE		TREE PROTECTION ZONE (TPZ)		
	SILT FENCE (TO BE COMPLETED BY SERVICING CONTRACTOR)		MAILBOX		
	ORANGE CONSTRUCTION FENCE				

NOTE:
 1. 2 OUT OF 22 HYDRO POLES REQUIRE RELOCATION BY TH
 2. 3 OUT OF 4 SERVICE POLES REQUIRE RELOCATION BY TH

H. SCALE 1:500

No.	REVISION	DATE	BY
3	ISSUED FOR 90% SUBMISSION	21 FEB 2025	AVM
2	ISSUED FOR 60% SUBMISSION	13 AUG 2024	AVM
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TOWN OF TILLSONBURG

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 Tillsonburg, Ontario, N4G 4H8
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 Fax: 519-842-3235
 cjdl@cjdleng.com

**CRANBERRY ROAD RECONSTRUCTION
 RFT20XX-XXX
 TOWN OF TILLSONBURG
 RELOCATIONS, EROSION CONTROL
 & TREE PROTECTION**

DESIGN BY: AVM	DRAWN BY: AK/GD	CHECKED BY: PJP
PROJECT NO. 22014	SURVEY BY: TPM	DATE: 02 AUG 2022

DRAWING No. **25**