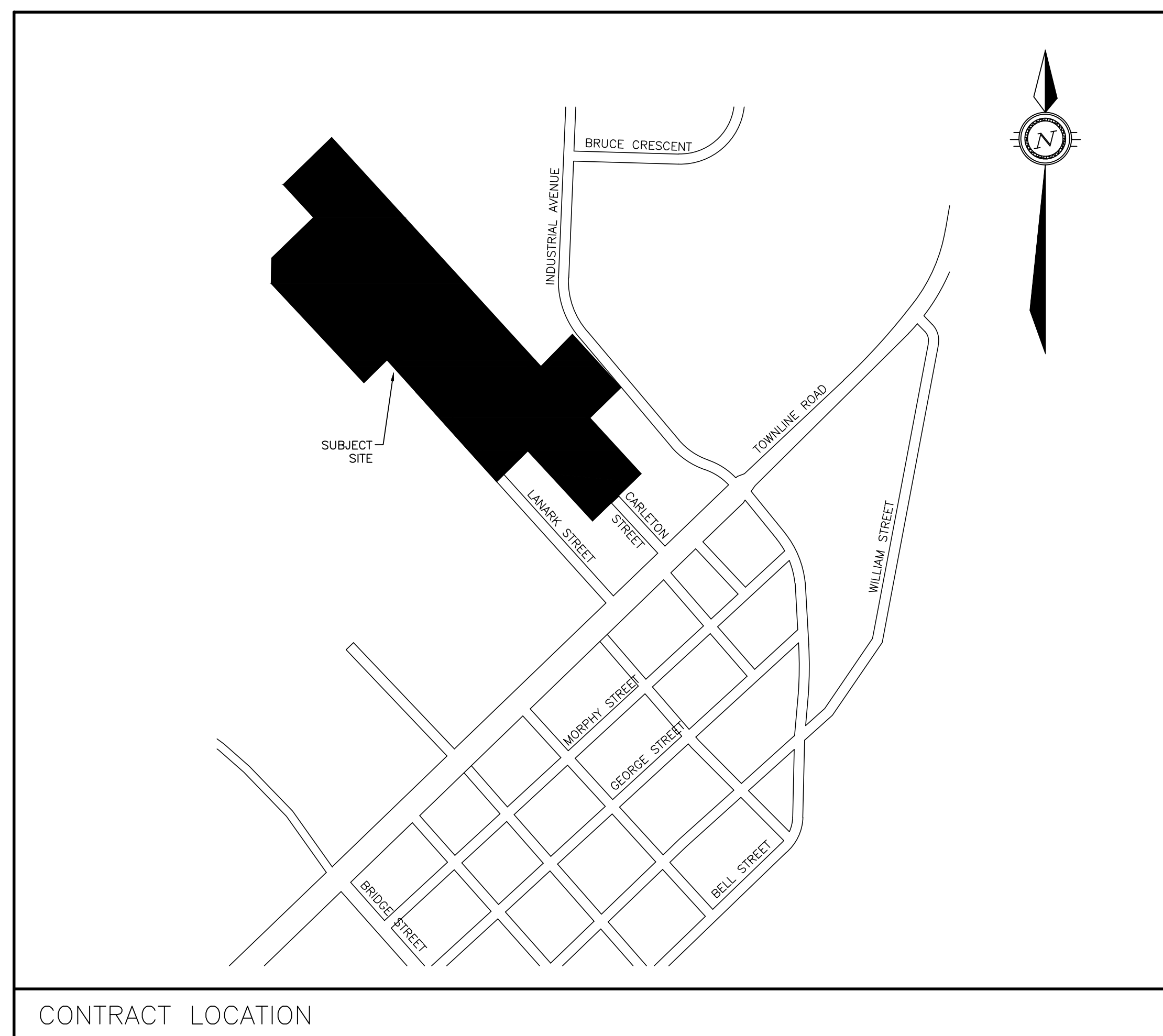


# INVERNESSS HOMES CARLETON LANARK SUBDIVISION CARLETON PLACE SEWER, WATERMAIN AND ROADS



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Land Development

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PROJECT No. 22043  
DECEMBER 2022

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**GENERAL:**

1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
2. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
3. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. DESIGN ELEVATIONS GIVEN ARE TO BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY ROBINSON LAND DEVELOPMENT.
5. ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
6. RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE DEVELOPER.
7. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
8. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
9. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
10. ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT ARE TO BE DESIGNED, APPROVED AND STAMPED BY STRUCTURAL ENGINEER.
11. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
12. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE TOWN OF CARLETON PLACE HAS BEEN OBTAINED.
13. ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, SHALL BE INSTALLED WITH PIPE LASER AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
15. ALL PIPE / CULVERT / SECTION SIZES REFER TO INSIDE DIMENSIONS.
16. STREET LIGHTING SHALL BE TO TOWN OF CARLETON PLACE STANDARDS.
17. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE TOWN OF CARLETON PLACE PRIOR TO ANY TREE CUTTING.
18. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL STORM AND SANITARY SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
19. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE FOR WATERING, SUPPORT AND PROTECTION OF EXCAVATIONS AND TRENCHING AS WELL AS RELEASE OF ANY PUMPED GROUNDWATER IN A CONTROLLED AND APPROVED MANNER.
20. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, WITH SOD ON MIN. 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER.
21. PONDING IN ROAD SLOPS TO BE MAXIMUM 0.30m DEPTH.
22. EMBANKMENTS TO BE SLOPED AT MAX. 3H:1V UNLESS OTHERWISE SPECIFIED.
23. ALL SWALES TO BE MIN. 0.15m DEEP WITH MIN. 3H:1V SIDE SLOPES UNLESS OTHERWISE SPECIFIED.
24. ALL ROOF DOWNSPOUTS TO DISCHARGE TO THE GROUND SURFACE AND SHALL NOT BE DIRECTED TO THE STORM SEWER, OR THE BUILDING FOUNDATION DRAIN.
25. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
26. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
27. REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP, REPORT P06133-1, DATED APRIL 22, 2022.
28. ALL SERVICE LATERALS INSTALLED UNDER DRIVEWAYS ARE TO BE SLEEVED THROUGH THE GARAGE.
29. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 3M (EDGE TO EDGE) BETWEEN TRANSFORMERS AND SERVICE LATERALS.

**STORM:**

1. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1 (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST AMENDMENT).
2. ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH OPSD 802.010, 802.030, 802.031, CLASS 'B' UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
4. ALL STORM LATERALS SHALL BE PVC SDR 28 AND MARKED WITH A 50mm x 100mm WOODEN MARKER EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE. HOUSE CONNECTIONS SHALL BE 100mm DIA..
5. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
6. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER OPSD 401.010 AND 401.030.
7. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
8. DROP STRUCTURES SHALL CONFORM WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
9. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900mm SHALL BE CONSTRUCTED WITH A 300mm SUMP. FOR STORM SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701.021.
10. SINGLE AND DOUBLE CATCH BASIN SHALL BE IN ACCORDANCE WITH OPSD 705.010 AND OPSD 705.020, FRAME AND COVER AS PER OPSD 400.030.
11. SINGLE AND DOUBLE CATCH BASIN LEADS SHALL BE 200mm AND 250mm DIA (MIN.), RESPECTIVELY, AT 1.0% SLOPE (MIN.) UNLESS OTHERWISE NOTED.
12. ALL CATCH BASINS AND CATCH MANHOLES SHALL HAVE SUMPS WITH 600mm DEPTH, UNLESS OTHERWISE NOTED.
13. CONTRACTOR SHALL ENSURE THAT CATCH BASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WORKS.
14. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
15. ALL ROADWAY AND BOULEVARD CATCH BASINS WHICH OUTLET DIRECTLY TO THE STORM SEWER SYSTEM ARE TO BE FITTED WITH A PREMANUFACTURED PLUG TYPE INLET CONTROL DEVICE (ICD) INSTALLED IN THE OUTLET PIPE.
16. CONNECTIONS TO SEWERS OVER 5m DEEP REQUIRE APPROVED CONTROLLED SETTLEMENT JOINTS.

**SANITARY:**

1. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
2. SANITARY SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH OPSD 802.010, 802.030, 802.031, CLASS 'B' BEDDING UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
3. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT) AND MARKED WITH A 50mm x 100mm WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE. HOUSE CONNECTIONS SHALL BE 2.75m BELOW FINISHED GRADE AT STREET LINE WHERE POSSIBLE. SINGLE CONNECTIONS SHALL BE 135mm DIA..
4. ALL SANITARY SERVICES ARE TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
5. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25.
6. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02.
7. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
8. SANITARY SEWER MANHOLES SHALL BE BENCHING AS PER OPSD 701.021.
9. SANITARY PRE-CAST MANHOLE SHALL BE CONSTRUCTED WITH A HIGHER PERCENTAGE OF SILICA FUME IN THE CONCRETE TO MAKE IT MORE DENSE AND LESS SUSCEPTIBLE TO CORROSION OR PINHOLE LEAKS.
10. FOR SANITARY MANHOLES, DEPENDING ON THE ELEVATION OF THE GROUNDWATER TABLE, AND BASED ON THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL CONSULTANT, GREX SEALS, OR A SIMILAR PRODUCT, SHALL BE INSTALLED IN THE PRE-CAST MANHOLE SECTION TO JUST BELOW THE MANHOLE FRAME TO PREVENT INFILTRATION.
11. CONTRACTOR SHALL PERFORM EXFILTRATION TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSD 410 AND OPSD 407.
12. CONNECTIONS TO SEWERS OVER 5m DEEP REQUIRE APPROVED CONTROLLED SETTLEMENT JOINTS.

**WATER:**

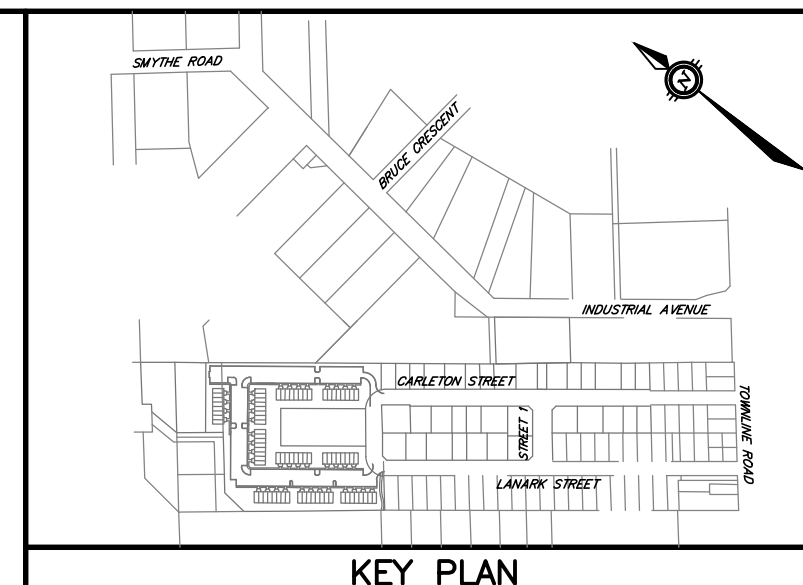
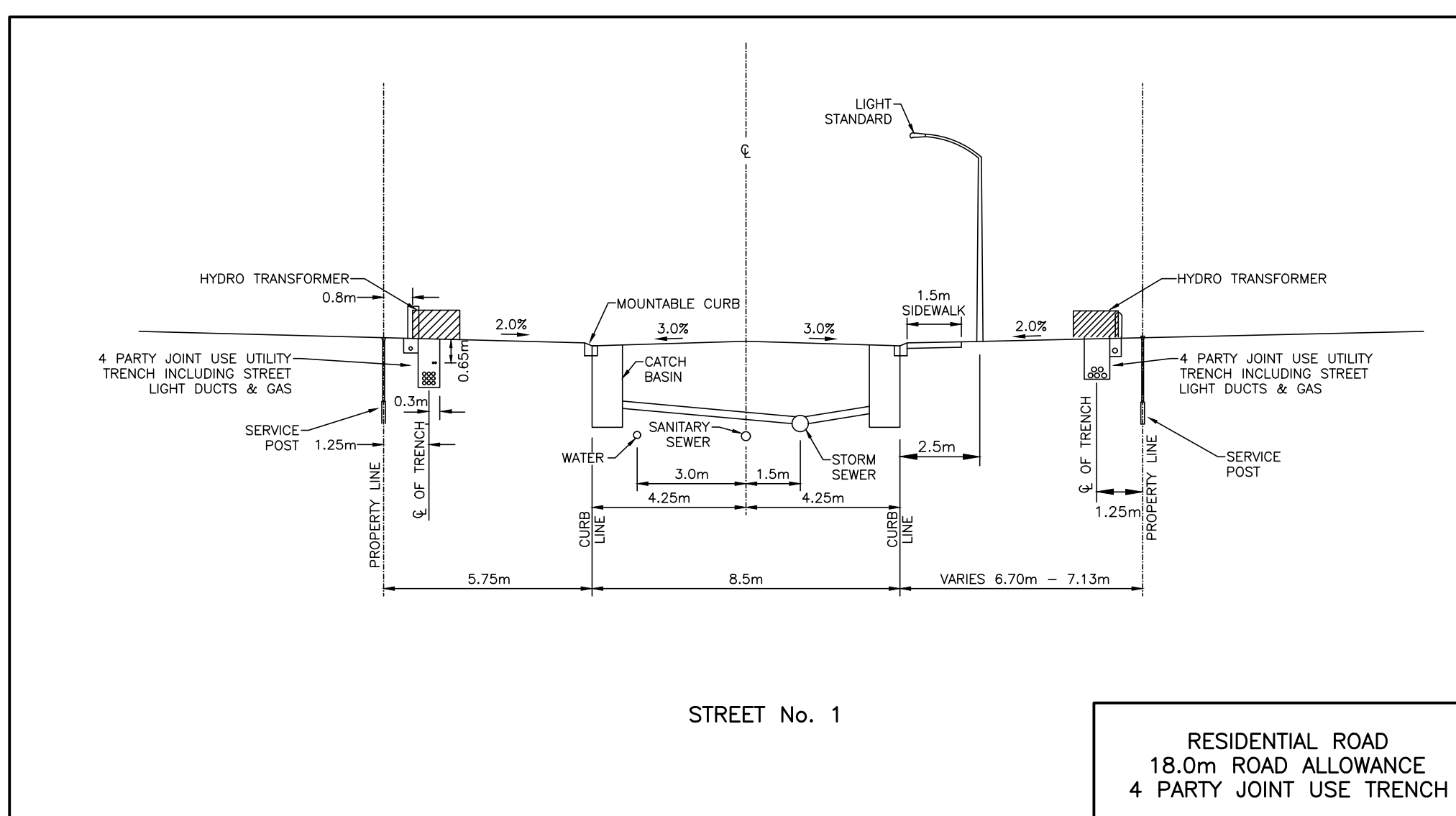
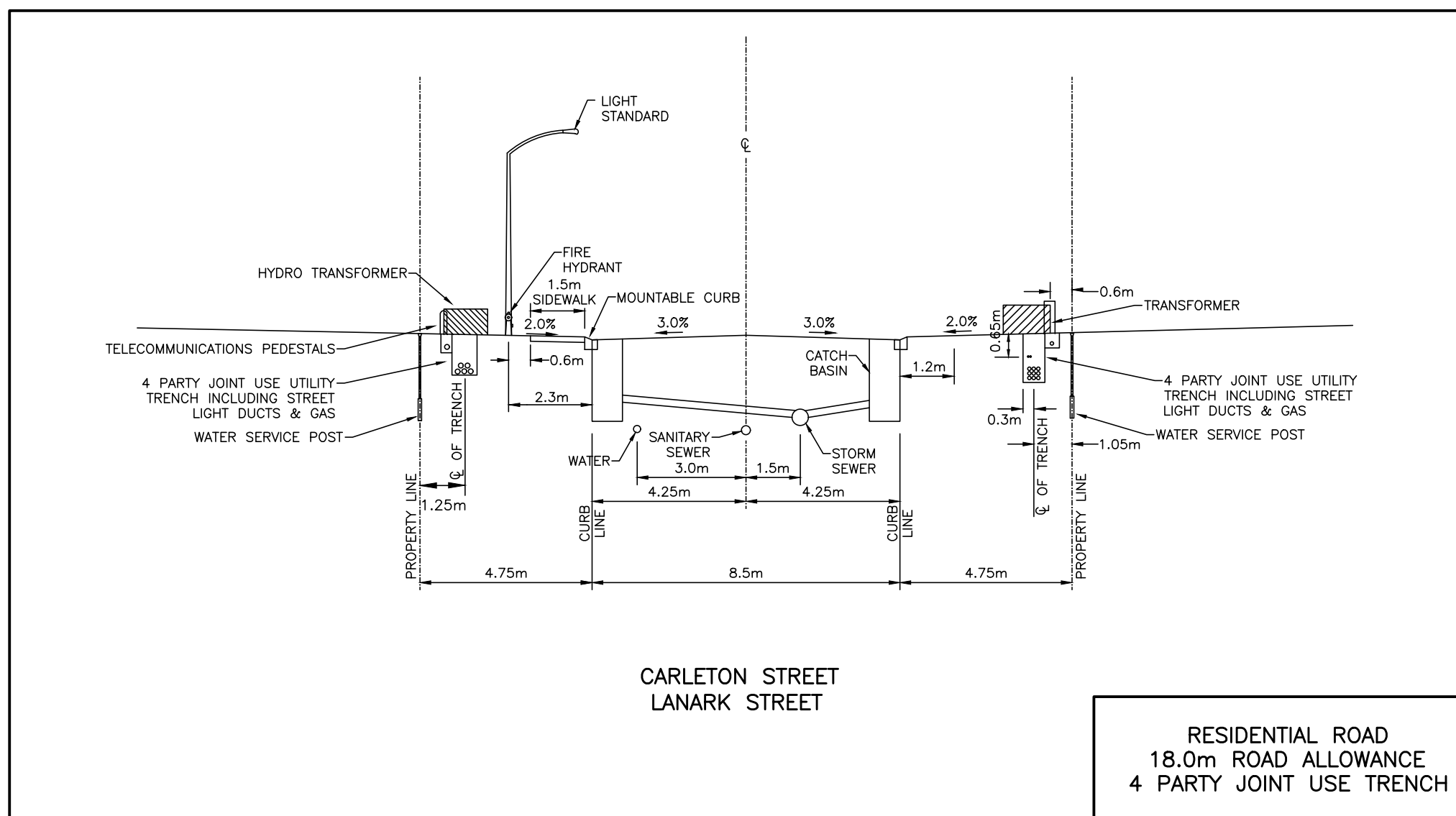
1. ALL PVC WATERMANS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL. DEFLECTION OF WATERMAIN PIPE IS NOT TO EXCEED 1/4 OF THAT SPECIFIED BY THE MANUFACTURER.
2. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
3. ALL PVC WATERMANS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWJ OR RWJ TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
4. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER OPSD 1105.010 (UNLESS OTHERWISE SPECIFIED.) SINGLE SERVICES SHALL BE 18mm DIA. WATER SERVICES SHALL BE MARKED WITH A "50mm x 100mm" WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE. STAND POSTS/SHUT-OFFS SHALL BE INSTALLED AT THE PROPERTY LINE.
5. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER OPSD 1109.011.
6. CONTRACTOR TO SUPPLY HYDRANT EXTENSION TO ADJUST THE LENGTH OF HYDRANT BARREL.
7. FIRE HYDRANTS TO BE RED AND SHALL BE INSTALLED AS PER OPSD 1105.010.
8. VALVE IN BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W24.
9. WATERMAIN IN FILL AREAS TO BE INSTALLED WITH RESTRAINED JOINTS AS PER CITY OF OTTAWA STD. W25.5 AND W25.6.
10. THRUST BLOCKING OF WATERMAIN TO BE INSTALLED AS PER OPSD 1103.010, 1103.020 AND OPSD 1103.021.
11. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
12. INSULATION FOR WATERMAIN CROSSING OVER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2, WHERE WATERMAIN COVER IS LESS THAN 2.5m.
13. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 2.4m, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
14. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY STD. W25. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.
15. ALL WATER SERVICES CROSSING SEWERS ARE TO BE INSTALLED AS PER CITY OF OTTAWA STD. W38.
16. CONNECTION TO EXISTING WATERMAIN TO BE PERFORMED BY CITY FORCES. CONTRACTOR TO PROVIDE LABOUR, EQUIPMENT AND MATERIAL REQUIRED FOR EXCAVATION, BEDDING AND REINSTATEMENT.
17. SWABBING, DISINFECTION, AND HYDROSTATIC TESTING TO BE CONDUCTED AS PER CITY OF OTTAWA STANDARDS IN THE PRESENCE OF A CITY INSPECTOR AND/OR CONSULTANT.
18. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 3M (EDGE TO EDGE) BETWEEN TRANSFORMERS AND FIRE HYDRANTS.

**ROADS:**

1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRIER CURB) AND SC1.3 (MOUNTABLE CURB). PROVISIONS SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEWAYS.
3. ALL BARRIER CURB TO BE 150mm ABOVE FINISHED ASPHALT GRADE UNLESS OTHERWISE NOTED.
4. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH OPSD 310.010.
5. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH OPSD 509.010, OPSS 310.
6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
7. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
8. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER AND TOWN OF CARLETON PLACE.
9. SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR "B" COMPACTED IN MAXIMUM 300mm LIFTS.
10. ROAD SUBDRAINS SHALL BE CONSTRUCTED AS PER OPSD 207.030.
11. PEDESTRIAN CURB RAMP WITH BOULEVARD SHALL BE ACCORDANCE WITH CITY OF OTTAWA STD. SC7.
12. TWSIs SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STD. SC7.3.
13. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW-CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW ASPHALT.
14. ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT CONSTRUCTION SHALL BE TO OPSS STANDARDS UNLESS OTHERWISE NOTED (CONSTRUCTION OPSS 206, 310 AND 314, MATERIALS OPSS 1001, 1003 AND 1010).
15. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE IF REQUIRED BY THE MUNICIPALITY. ALL WITH ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING.
16. REFER TO GEOTECHNICAL INVESTIGATION FOR PAVEMENT STRUCTURES:

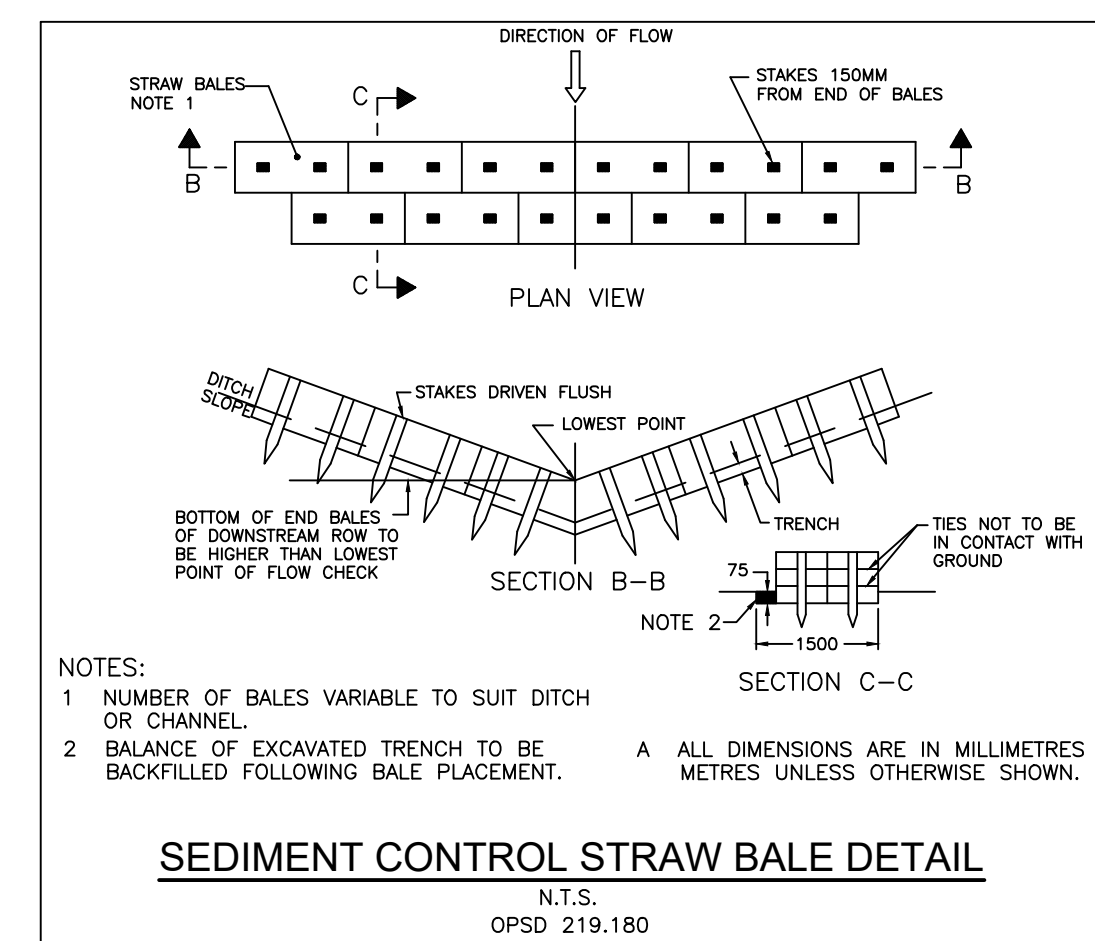
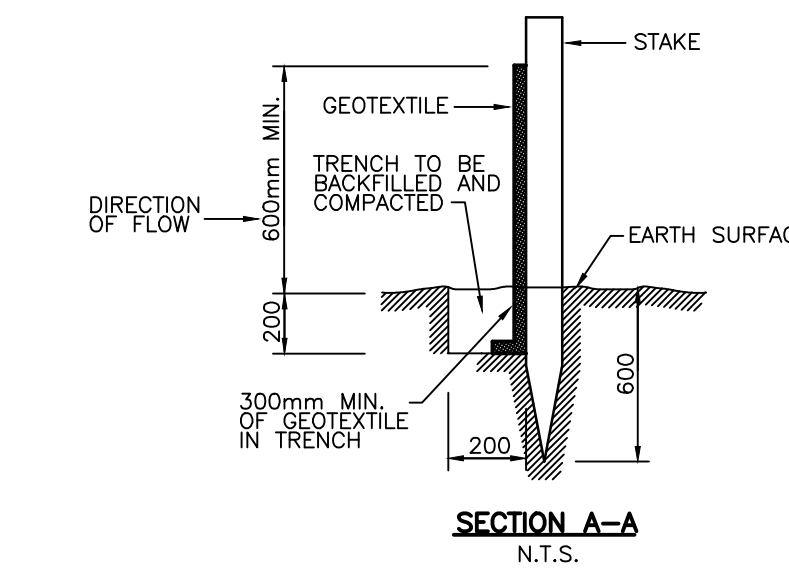
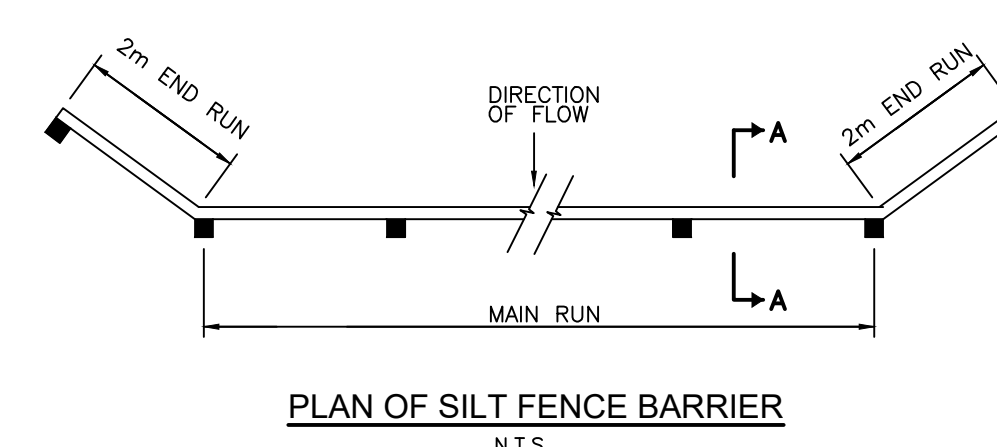
- DRIVEWAYS**  
 50mm WEAR COURSE - HL3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE  
 150mm BASE - OPSS GRANULAR A CRUSHED STONE  
 300mm SUBBASE - OPSS GRANULAR B TYPE II  
 SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANULAR B TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL, BEDROCK OR FILL

- LOCAL ROADS**  
 40mm WEAR COURSE - SUPERPAVE 12.5 ASPHALTIC CONCRETE  
 50mm BINDER COURSE - SUPERPAVE 13.0 ASPHALTIC CONCRETE  
 150mm BASE - OPSS GRANULAR A CRUSHED STONE  
 400mm SUBBASE - OPSS GRANULAR B TYPE II  
 SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANULAR B TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL, BEDROCK OR FILL



**LEGEND**

- SINGLE SERVICE
  - 135mm SANITARY
  - 100mm STORM
  - 19mm WATER
- DOUBLE SERVICE
  - 2-135mm SANITARY
  - 2-100mm STORM
  - 2-19mm WATER
- SANITARY SEWER AND MANHOLE
- EXISTING SANITARY SEWER AND MANHOLE
- STORM SEWER AND MANHOLE
- WATERMAIN
- EXISTING WATERMAIN
- VALVE AND VALVE BOX
- HYDRANT WITH VALVE AND VALVE BOX
- CATCH BASIN AND LEAD
- EXISTING CATCH BASIN
- SWALE
- EXISTING DITCH
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED AND EXISTING GRADE
- DRAINAGE SLOPE & DIRECTION
- DRIVEWAY GRADE AT GARAGE
- CENTRELINE OF ROAD GRADE
- DRIVEWAY LOCATION



**NOT FOR CONSTRUCTION**

NOTES  
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	14/12/21	AHJ

SCALE	



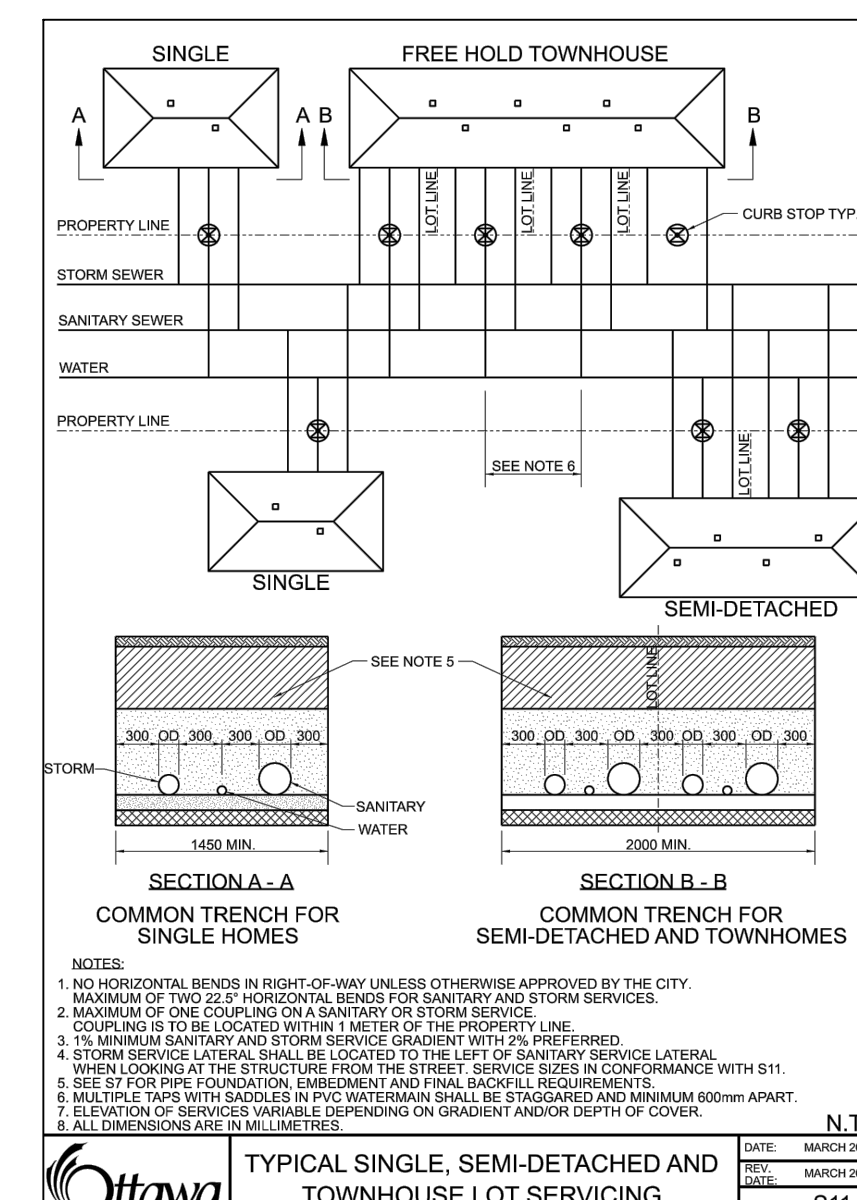
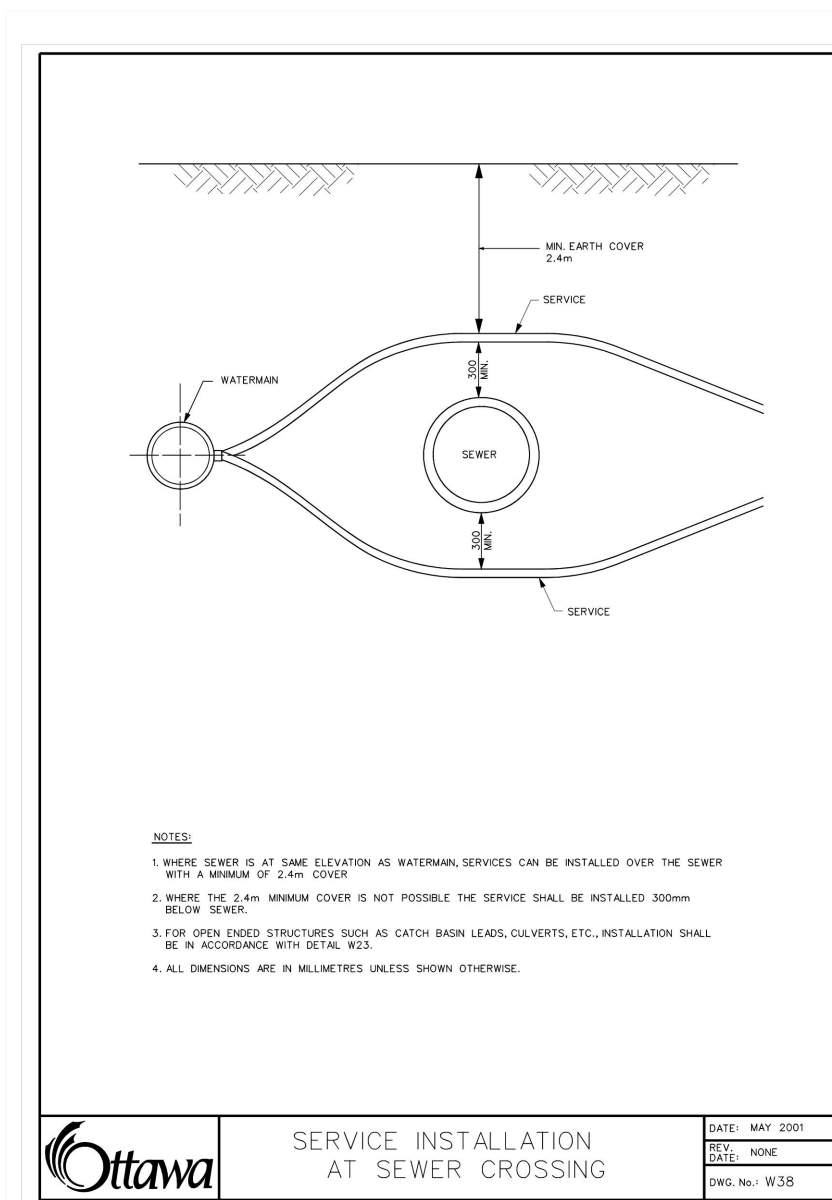
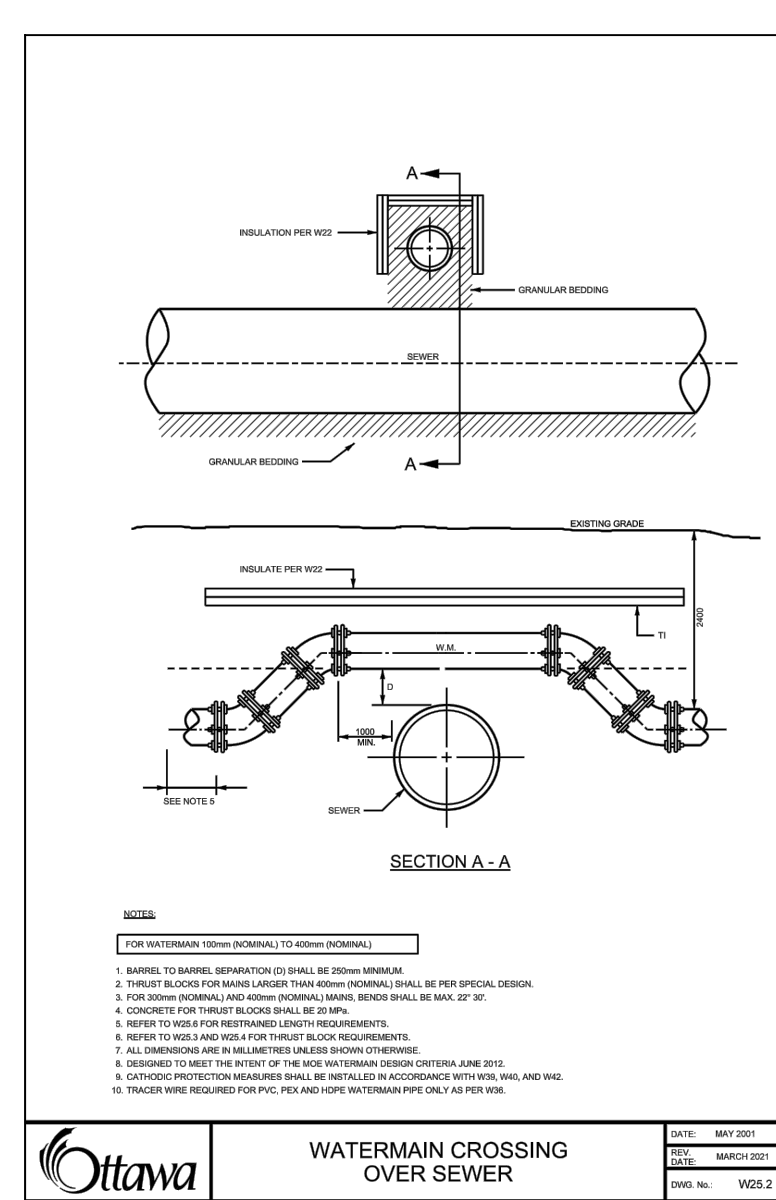
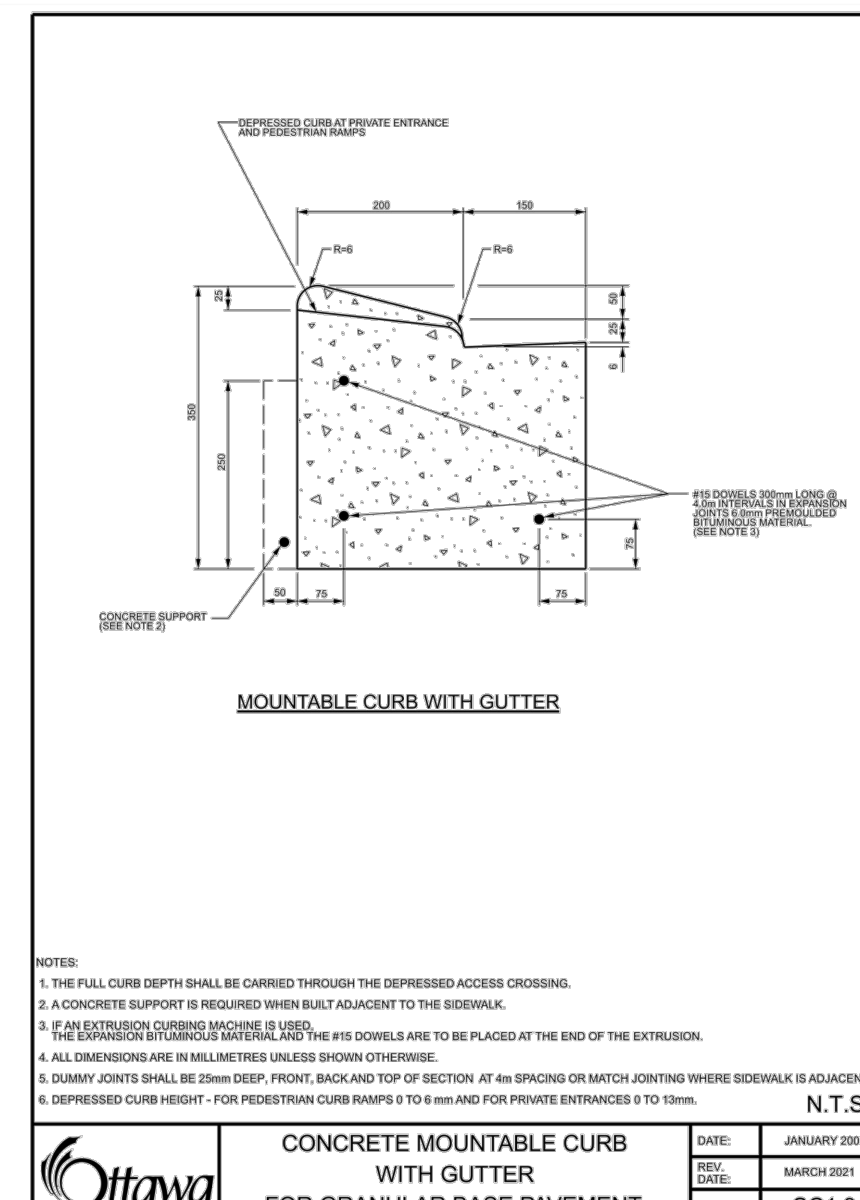
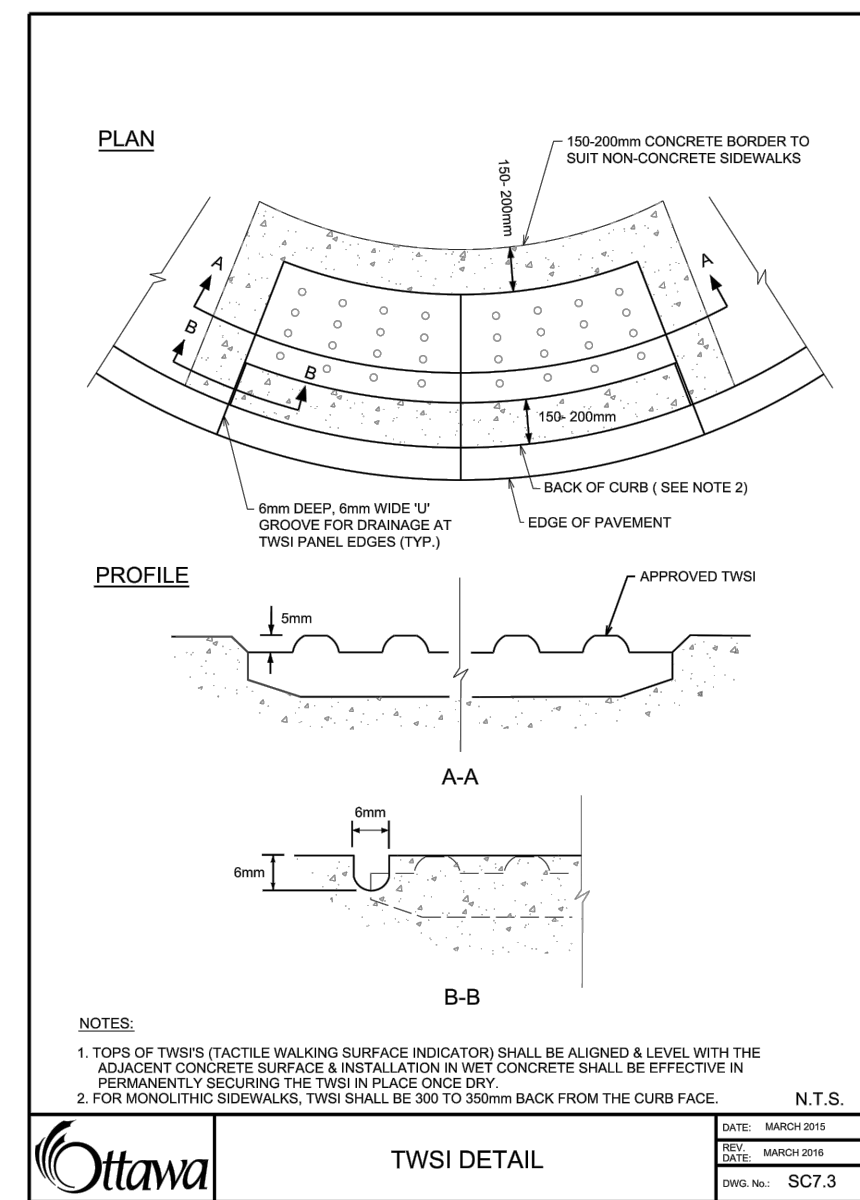
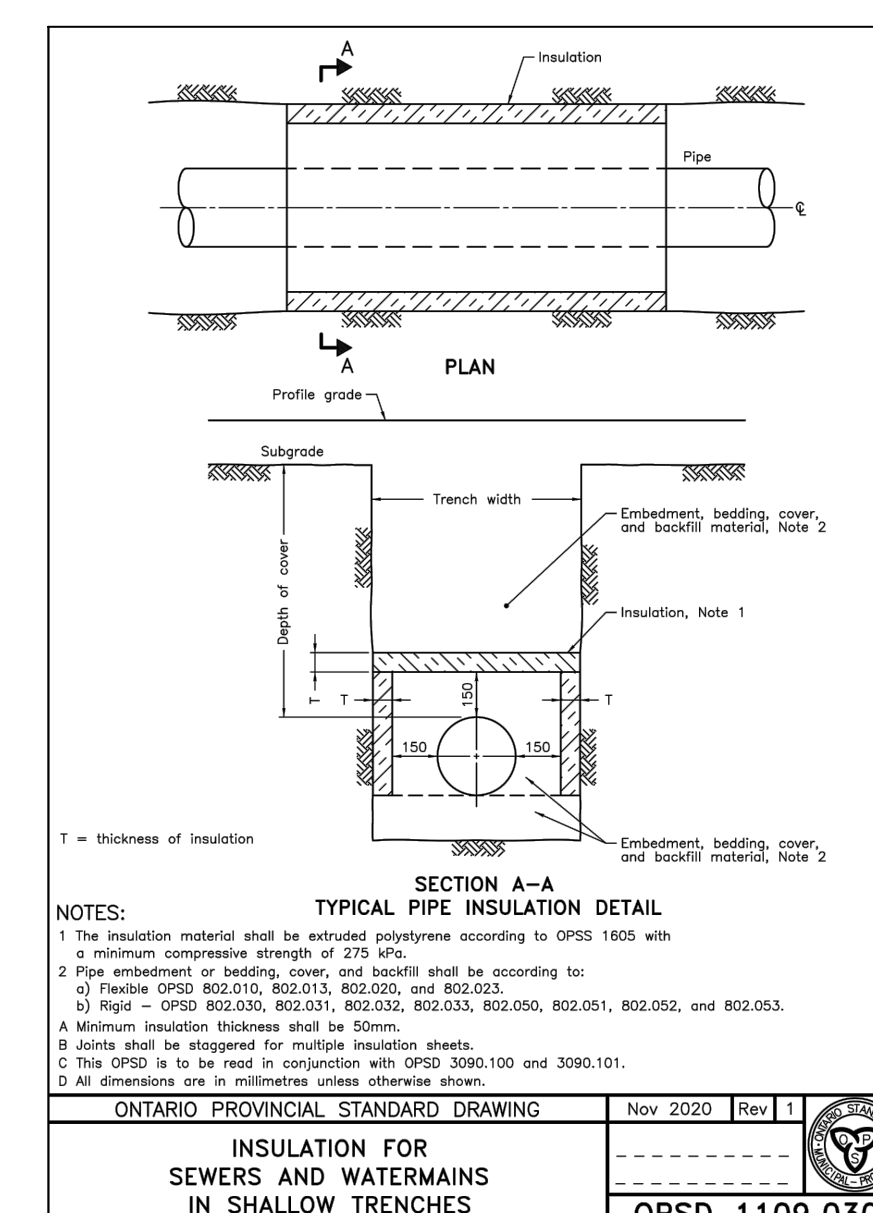
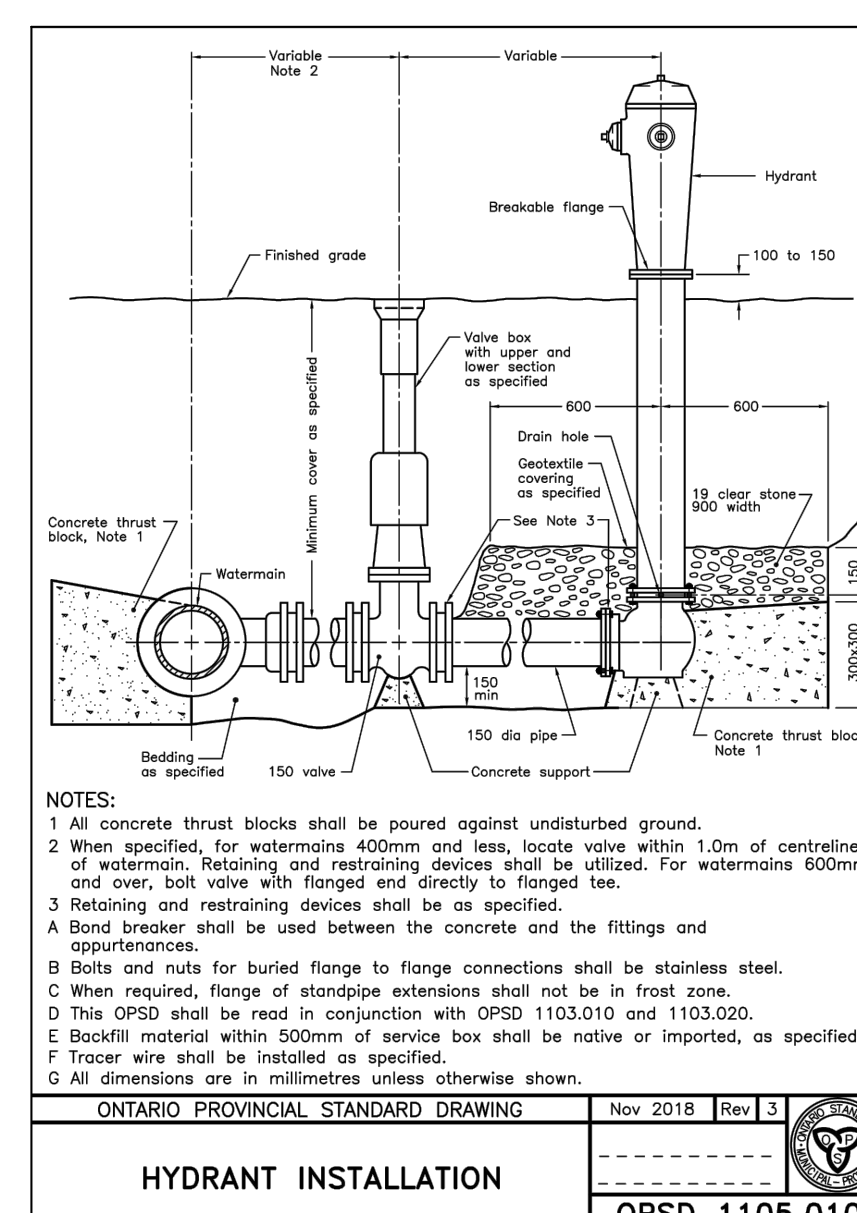
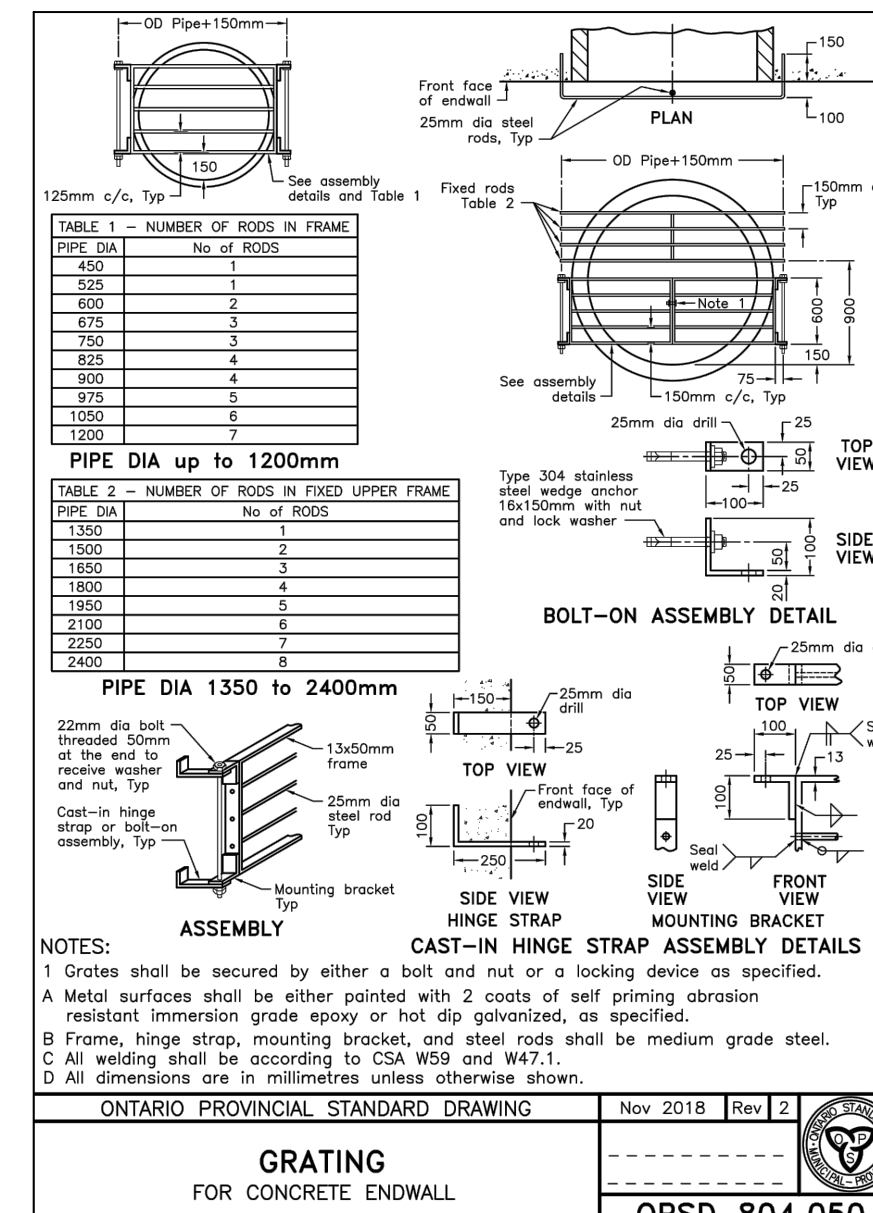
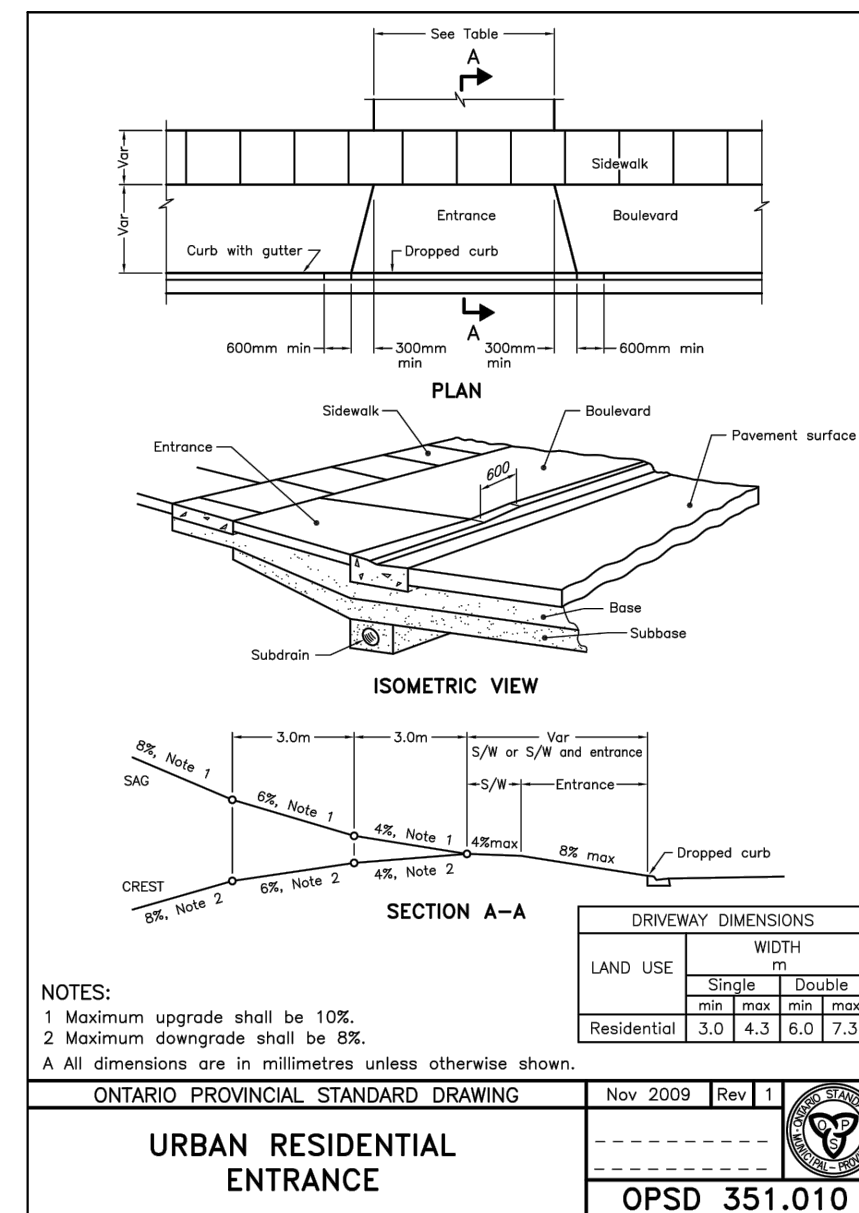
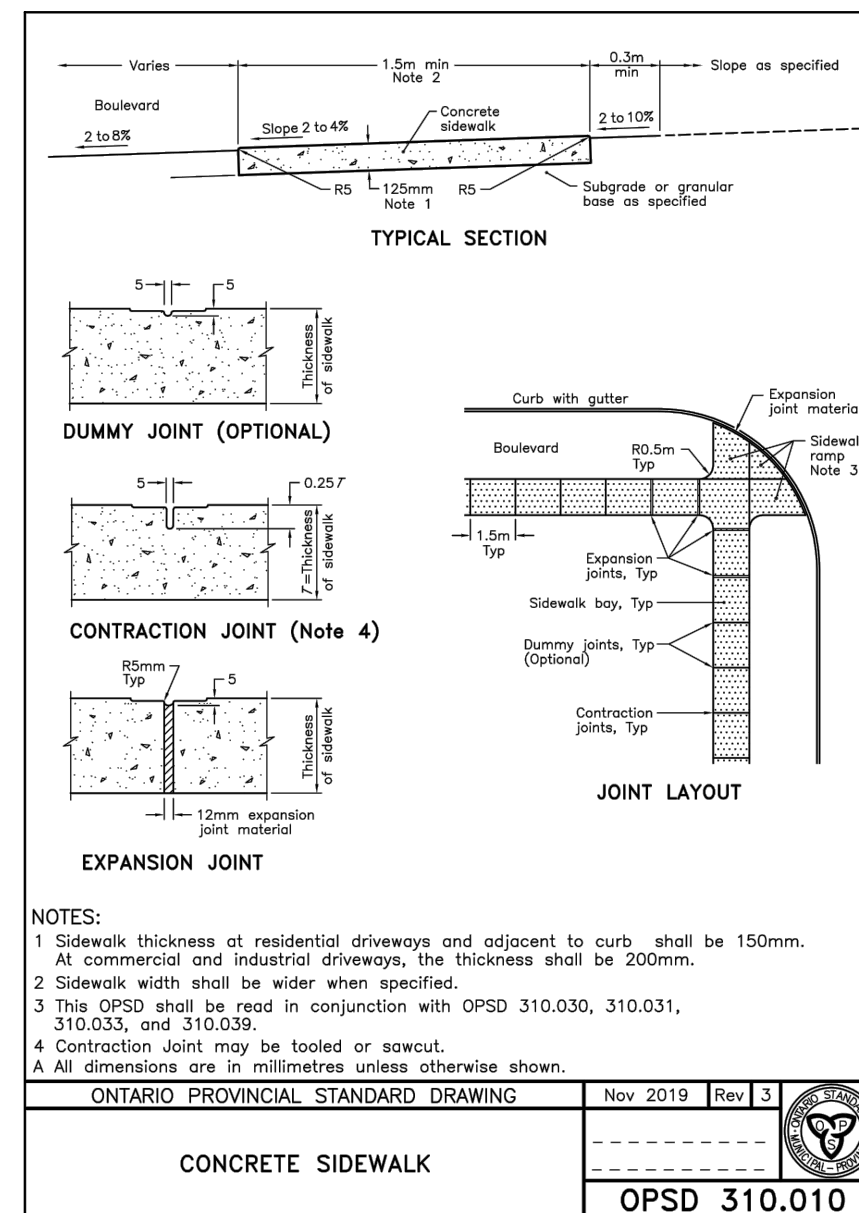
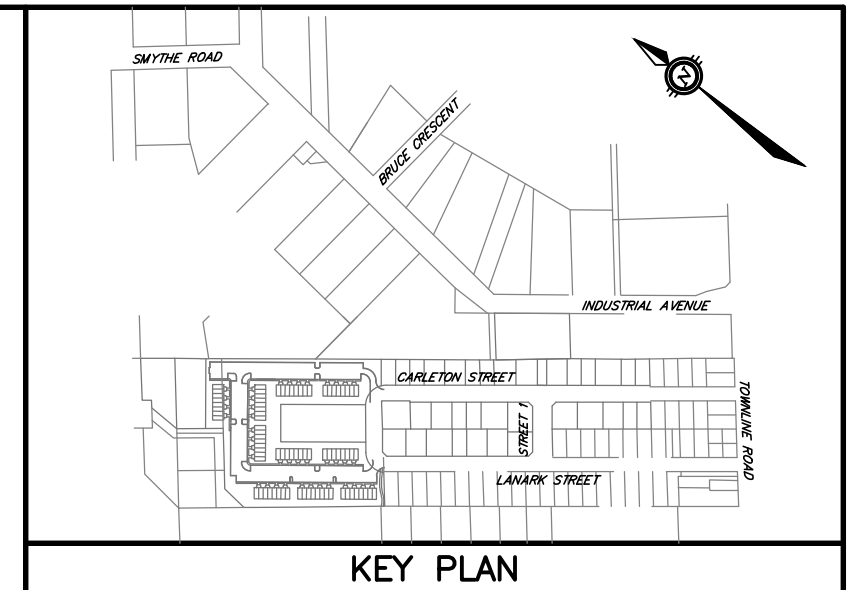
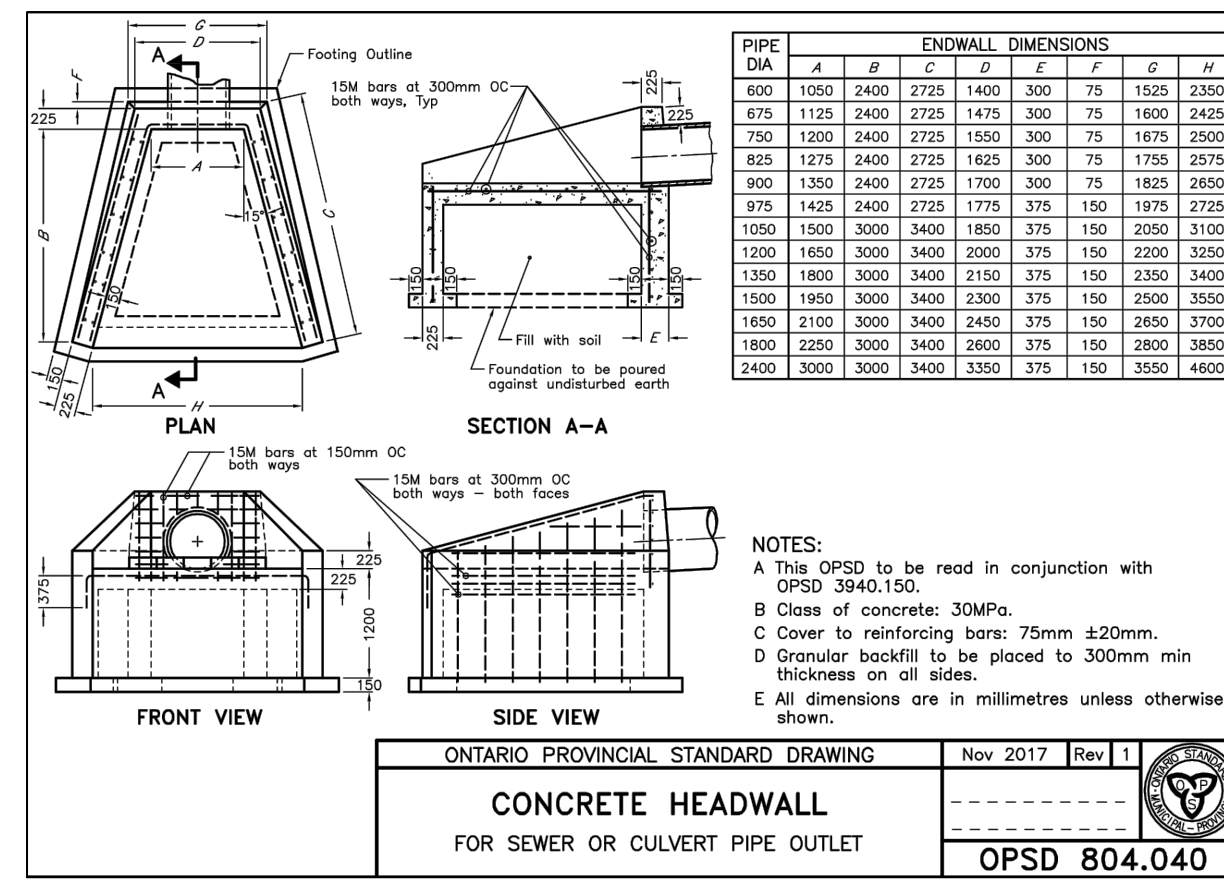
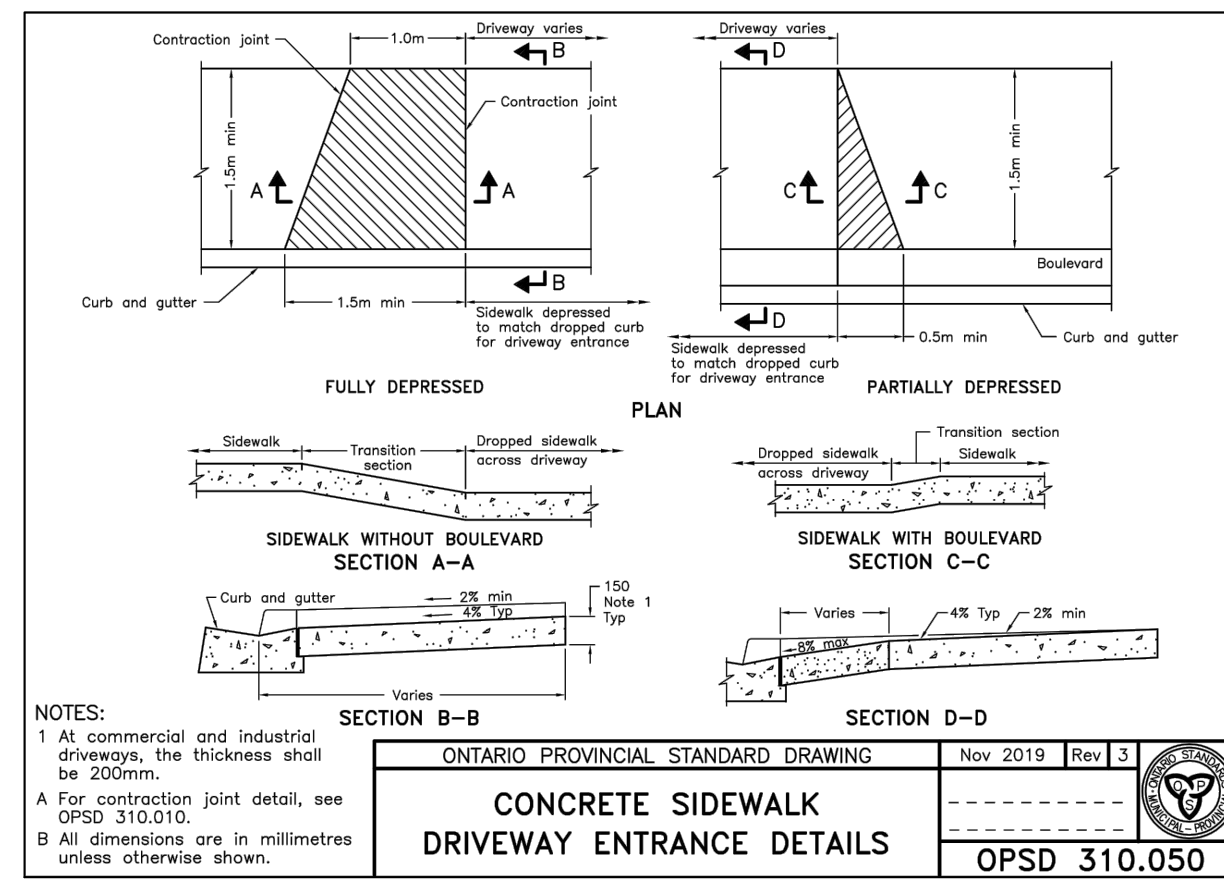
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DESIGN	JHB
CHECKED	AHJ
DRAWN	JHB
CHECKED	AHJ
APPROVED	AHJ

**INVERNESS HOMES**  
**CARLETON / LANARK SUBDIVISION**  
**CARLETON PLACE, ONTARIO**

**NOTES & DETAILS**

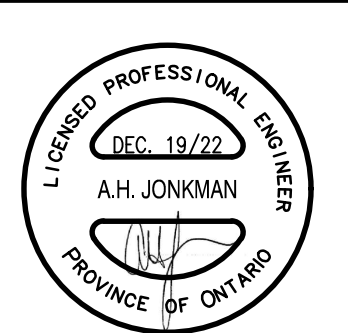
PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-N1



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**Robinson Land Development**

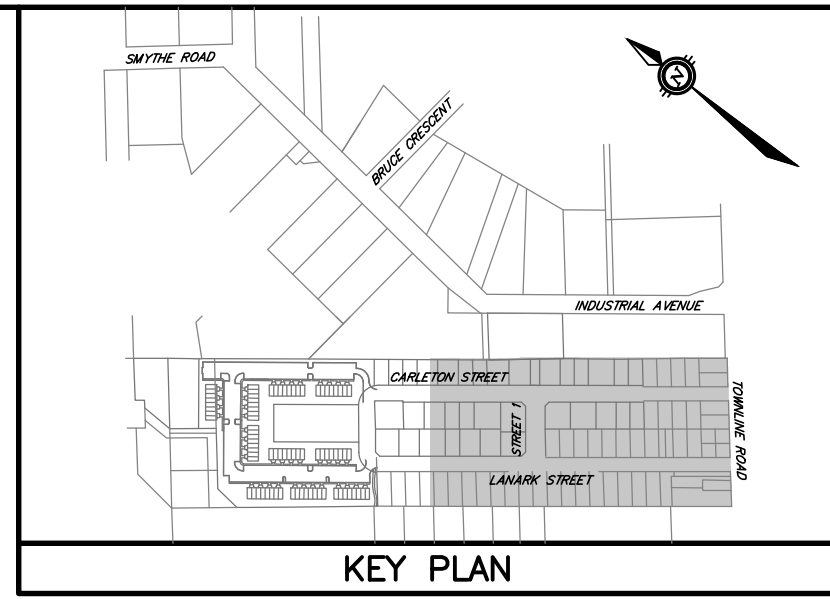
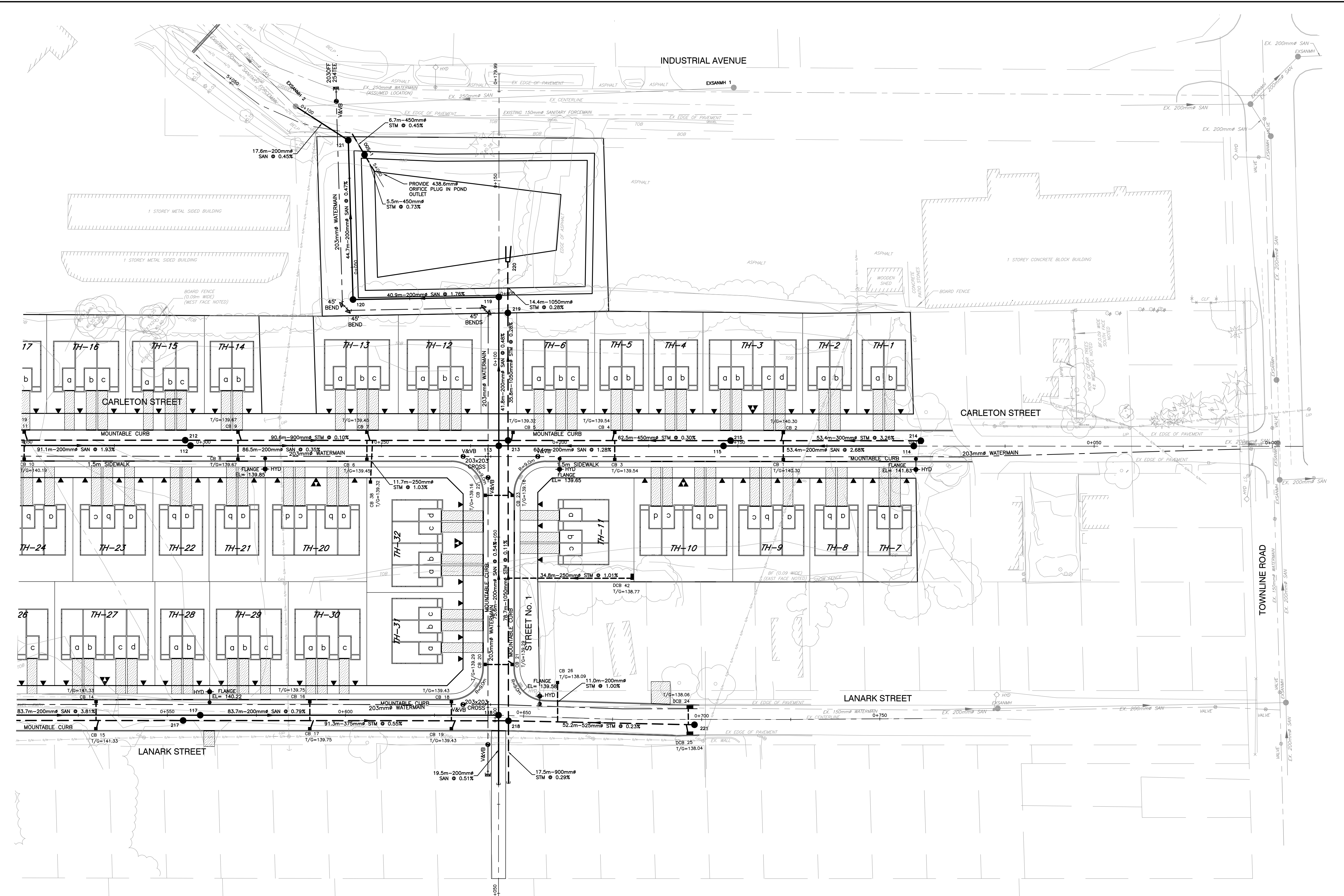
350 Palladium Drive  
 Ottawa, ON K2V 1A8  
 (613) 592-6060 roii.com

DESIGN	JHB
CHECKED	AHJ
DRAWN	JHB
CHECKED	AHJ
APPROVED	AHJ

**INVERNESS HOMES**  
**CARLETON / LANARK SUBDIVISION**  
**CARLETON PLACE, ONTARIO**

NOTES & DETAILS

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-N2



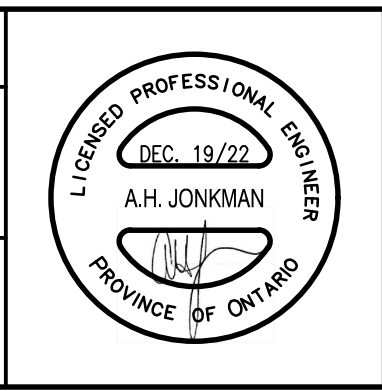
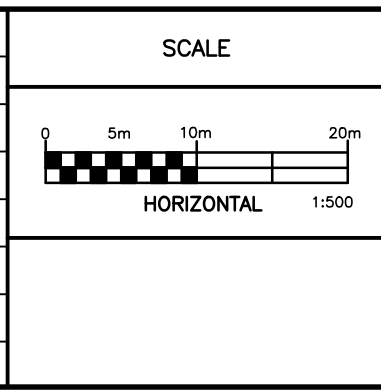
- LEGEND**
- ▼ SINGLE SERVICE
    - 135mm $\varnothing$  SANITARY
    - 100mm $\varnothing$  STORM
    - 19mm $\varnothing$  WATER
  - ▼ DOUBLE SERVICE
    - 2-135mm $\varnothing$  SANITARY
    - 2-100mm $\varnothing$  STORM
    - 2-19mm $\varnothing$  WATER
  - SANITARY SEWER AND MANHOLE
  - EXISTING SANITARY SEWER AND MANHOLE
  - STORM SEWER AND MANHOLE
  - EXISTING STORM SEWER AND MANHOLE
  - WATERMAIN
  - EXISTING WATERMAIN
  - VALVE AND VALVE BOX
  - HYDRANT WITH VALVE AND VALVE BOX
  - CATCH BASIN AND LEAD
  - EXISTING CATCH BASIN

**NOT FOR CONSTRUCTION**

**NOTES**

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NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	14/12/21	AHJ



**Robinson Land Development**

350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 roii.com

DESIGN	JHB
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APPROVED	AHJ

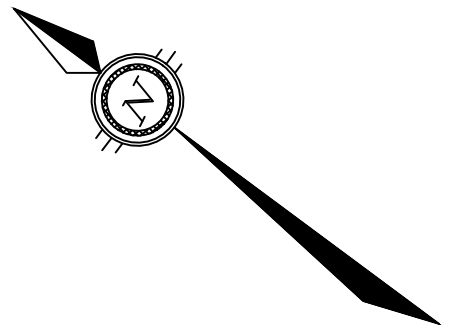
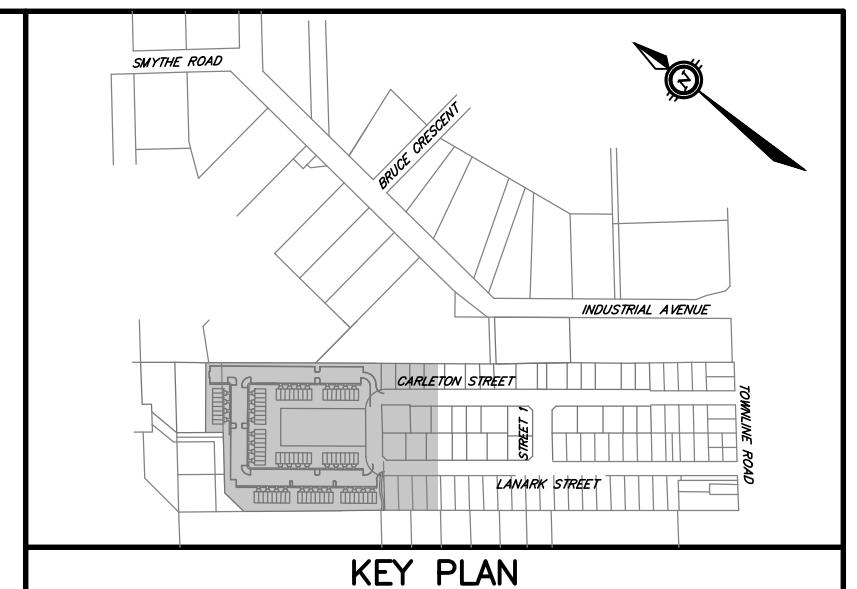
**INVERNESS HOMES**

**CARLETON / LANARK SUBDIVISION**

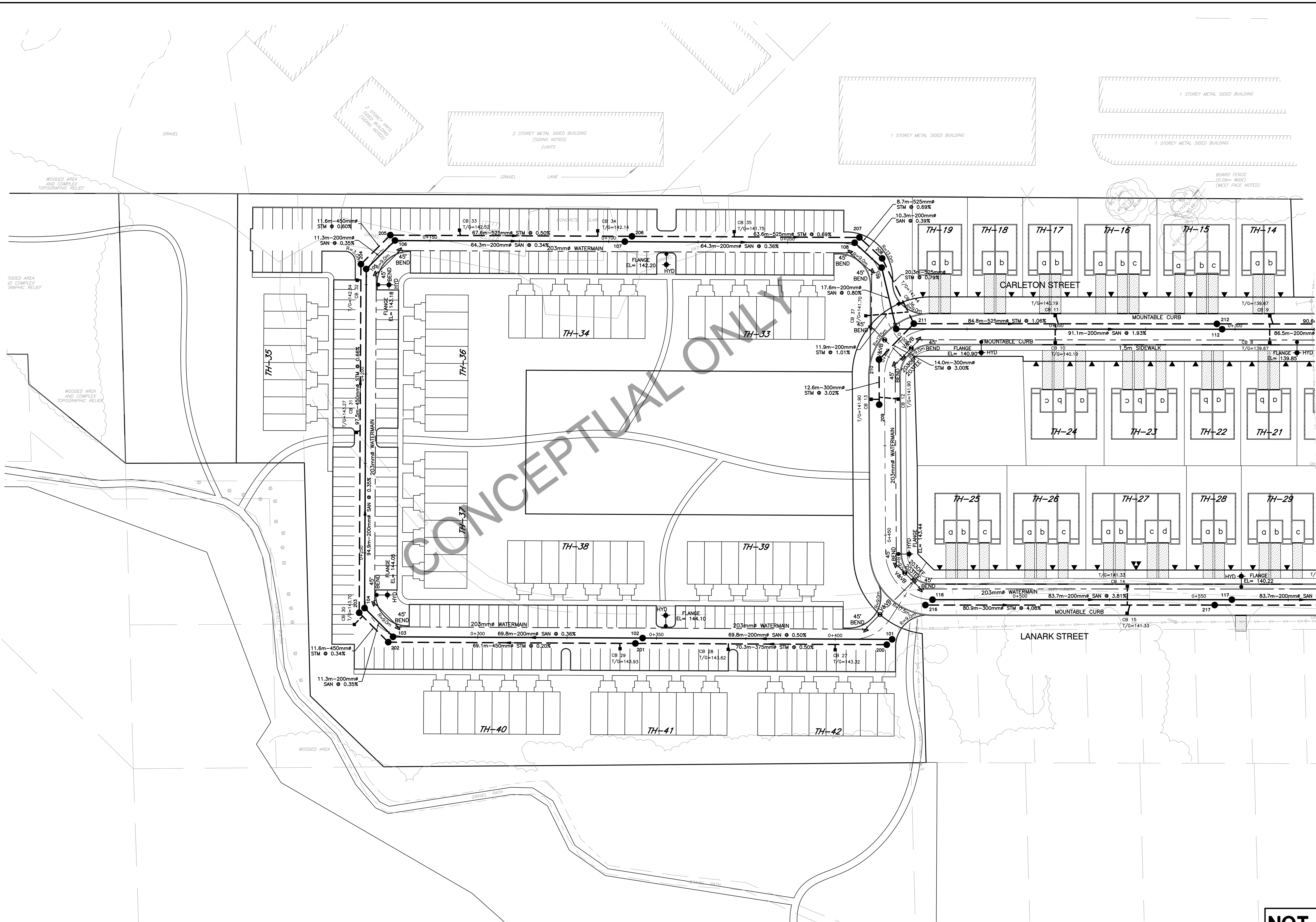
**CARLETON PLACE, ONTARIO**

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-S1

**GENERAL PLAN OF SERVICES**



- LEGEND**
- ▼ SINGLE SERVICE
    - 135mm<sup>ø</sup> SANITARY
    - 100mm<sup>ø</sup> STORM
    - 19mm<sup>ø</sup> WATER
  - ▼ DOUBLE SERVICE
    - 2-135mm<sup>ø</sup> SANITARY
    - 2-100mm<sup>ø</sup> STORM
    - 2-19mm<sup>ø</sup> WATER
  - SANITARY SEWER AND MANHOLE
  - EXISTING SANITARY SEWER AND MANHOLE
  - STORM SEWER AND MANHOLE
  - EXISTING STORM SEWER AND MANHOLE
  - WATERMAIN
  - EXISTING WATERMAIN
  - VALVE AND VALVE BOX
  - HYDRANT WITH VALVE AND VALVE BOX
  - CATCH BASIN AND LEAD
  - EXISTING CATCH BASIN

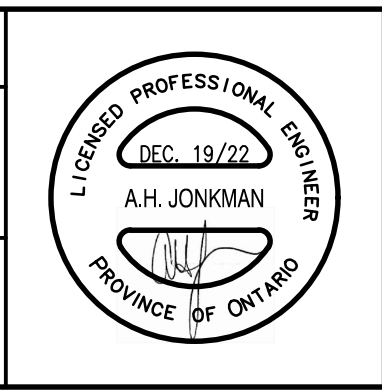
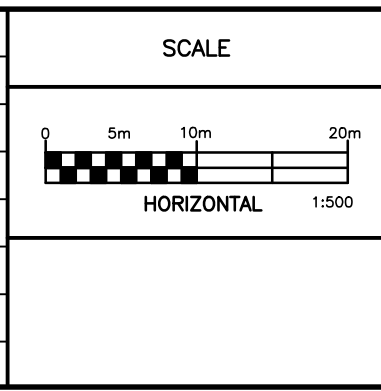


**NOT FOR CONSTRUCTION**

**NOTES**

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NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	14/12/21	AHJ



**Robinson**  
Land Development

350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	AHJ
DRAWN	JHB
CHECKED	AHJ
APPROVED	AHJ

**INVERNESS HOMES**

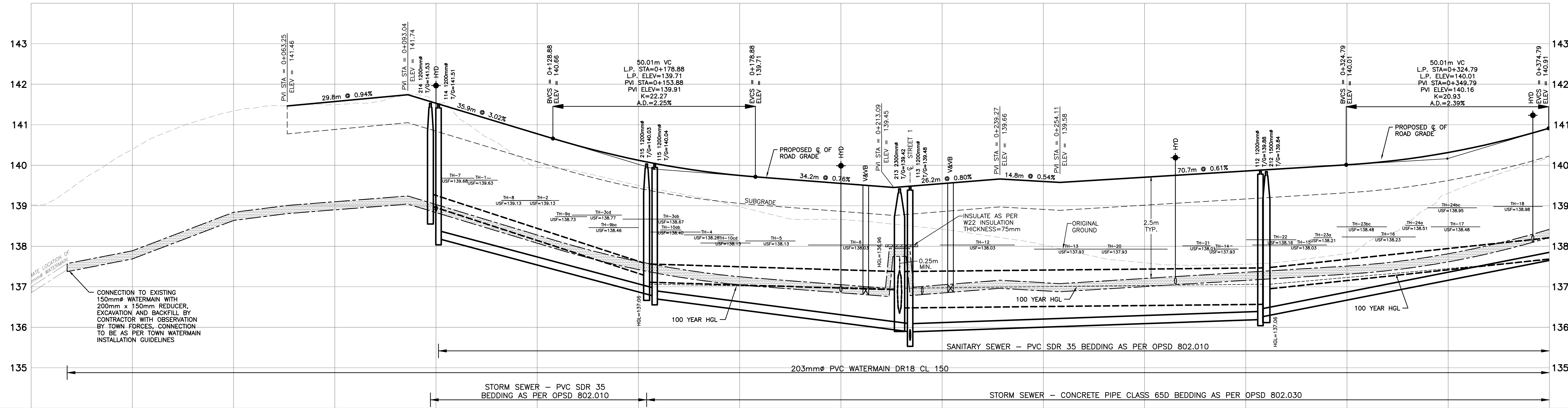
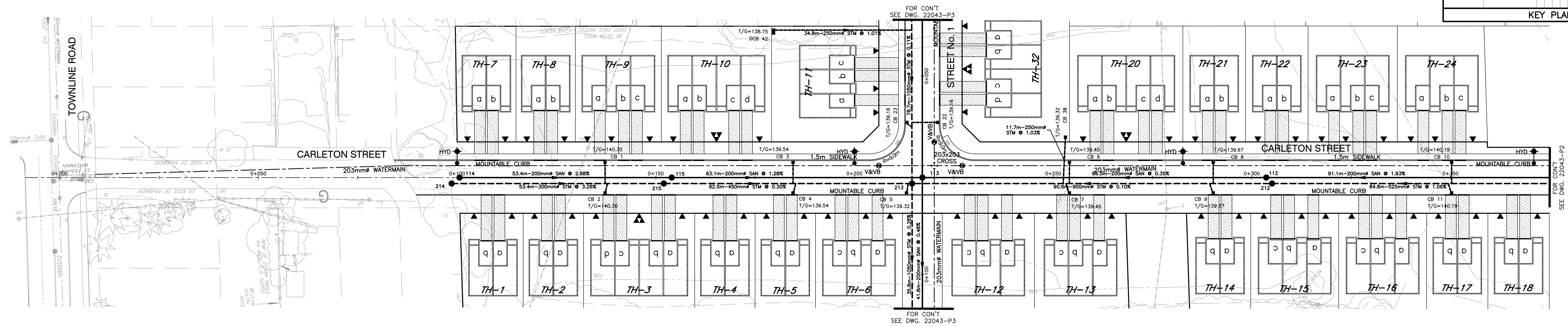
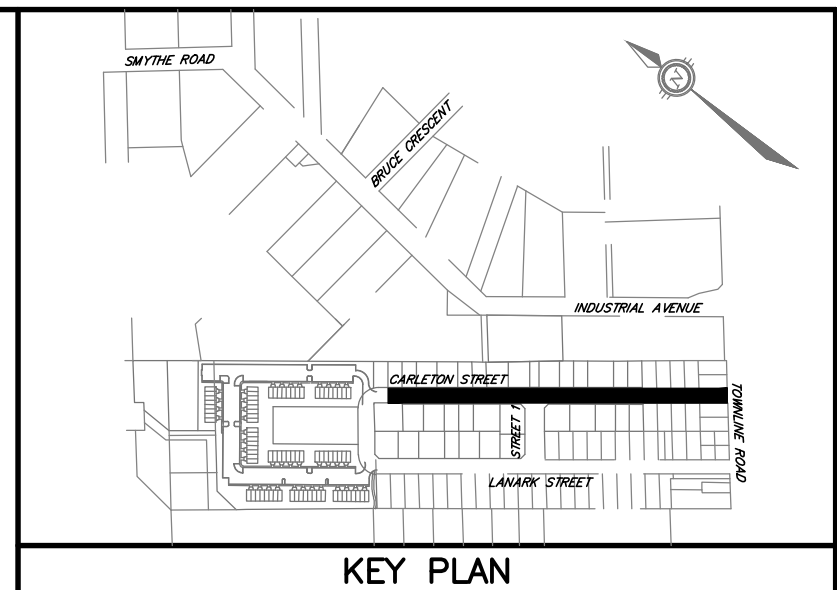
**CARLETON / LANARK  
SUBDIVISION**

**CARLETON PLACE, ONTARIO**

**GENERAL PLAN OF SERVICES**

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-S2

**NOT FOR CONSTRUCTION**



PROPOSED ROAD ELEVATION	141.57	141.53	140.78	140.12	139.75	139.55	139.05	139.50	137.05	137.16	137.00	137.20	137.25	137.36	140.01	140.31	140.92
TOP OF WATERMAIN ELEVATION	137.57	137.89	138.84	139.01	139.10	139.24	139.03	139.28	137.62	137.25	137.05	137.10	137.08	137.20	137.36	137.51	137.81
STORM SEWER INVERT																	
SANITARY SEWER INVERT																	
EXISTING C. R.O.W. ELEVATION	139.02	140.39	141.34	141.50	141.53	139.95	139.50	139.87	139.66	139.03	137.59	137.55	137.52	139.31	140.19		
CHAINAGE	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	

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**SCALE**  
HORIZONTAL: 1:500  
VERTICAL: 1:50

**Robinson Land Development**  
350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 rcii.com

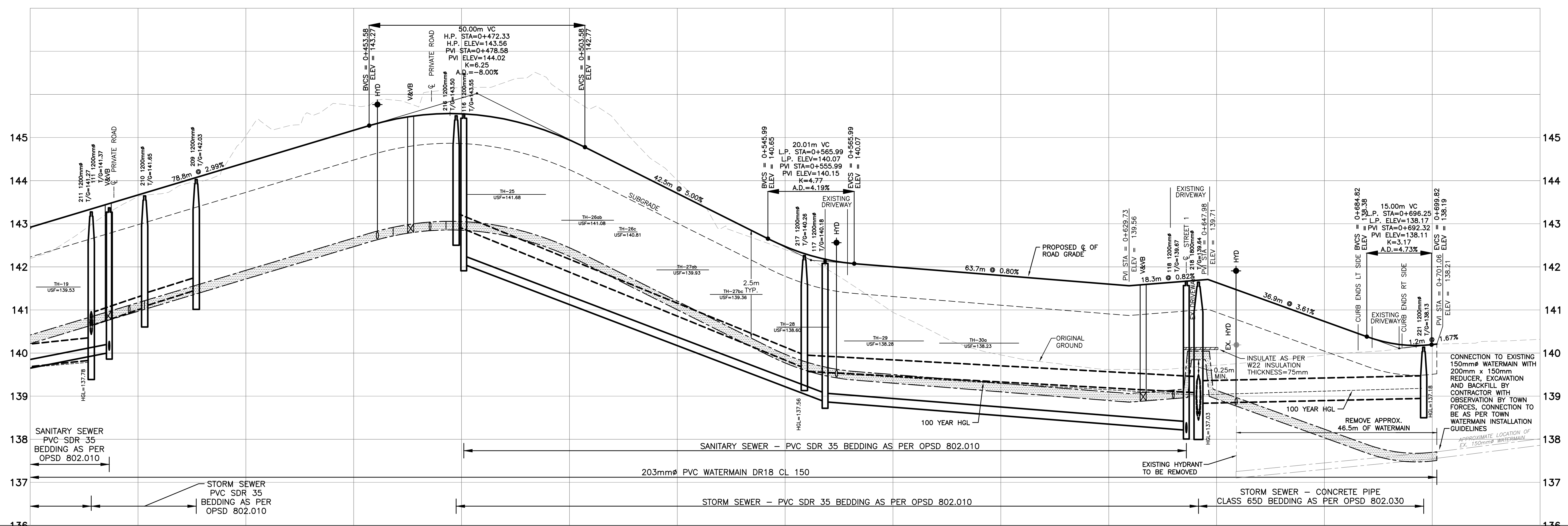
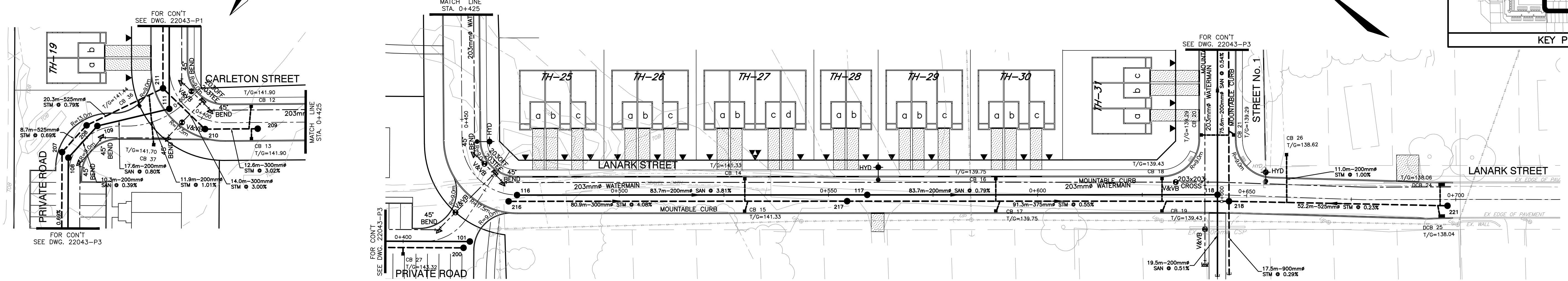
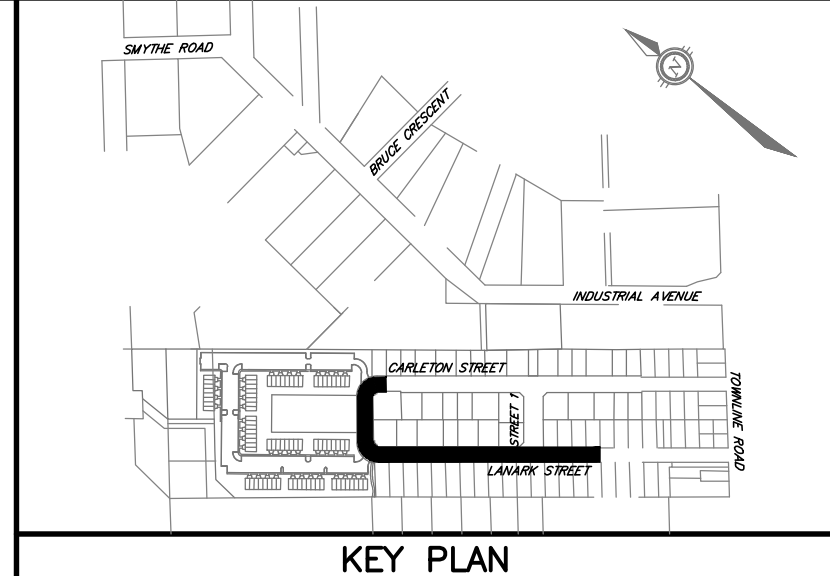
**DESIGN** JHB  
**CHECKED** AHJ  
**DRAWN** JHB  
**CHECKED** AHJ  
**APPROVED** AHJ

**INVERNESS HOMES**  
**CARLETON / LANARK SUBDIVISION**  
**CARLETON PLACE, ONTARIO**

**PLAN AND PROFILE**  
**CARLETON STREET**  
**STA 0+000 TO STA 0+375**

PROJECT No. 22043  
SURVEY FMW  
DATED DEC. 2022  
DWG. No. 22043-P1

**NOT FOR CONSTRUCTION**



PROPOSED ROAD ELEVATION	140.92	140.67	140.42	140.17	139.92	140.44	141.70	140.47	140.00	139.80	139.60	139.73	138.20	136
TOP OF WATERMAIN ELEVATION	138.42	138.94	139.06	139.11	139.21	140.67	140.83	140.91	140.99	140.99	137.08	137.14	137.18	136.79
STORM SEWER INVERT	139.63	139.64	139.64	139.64	139.64	140.05	140.05	140.05	140.05	140.05	137.08	137.14	137.18	136.95
SANITARY SEWER INVERT	138.07	138.07	138.07	138.07	138.07	140.05	140.05	140.05	140.05	140.05	137.08	137.14	137.18	136.95
EXISTING C.R.O.W ELEVATION	140.19	141.63	143.04	143.74	144.16	143.95	142.01	140.40	138.94	137.96	137.62	137.95	136.22	136
CHAINAGE	0+375	0+385.2	0+393.1	0+400	0+407.5	0+413.5	0+425	0+450	0+455.5	0+459.1	0+463.2	0+467.7	0+471.4	0+475

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1	ISSUED FOR REVIEW		14/12/21	AHJ
	REVISION	DESCRIPTION	DATE	BY

SCALE

HORIZONTAL 1:500

VERTICAL 1:50

**Robinson**  
Land Development

350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 rcil.com

DESIGN JHB  
 CHECKED AHJ  
 DRAWN JHB  
 CHECKED AHJ  
 APPROVED AHJ

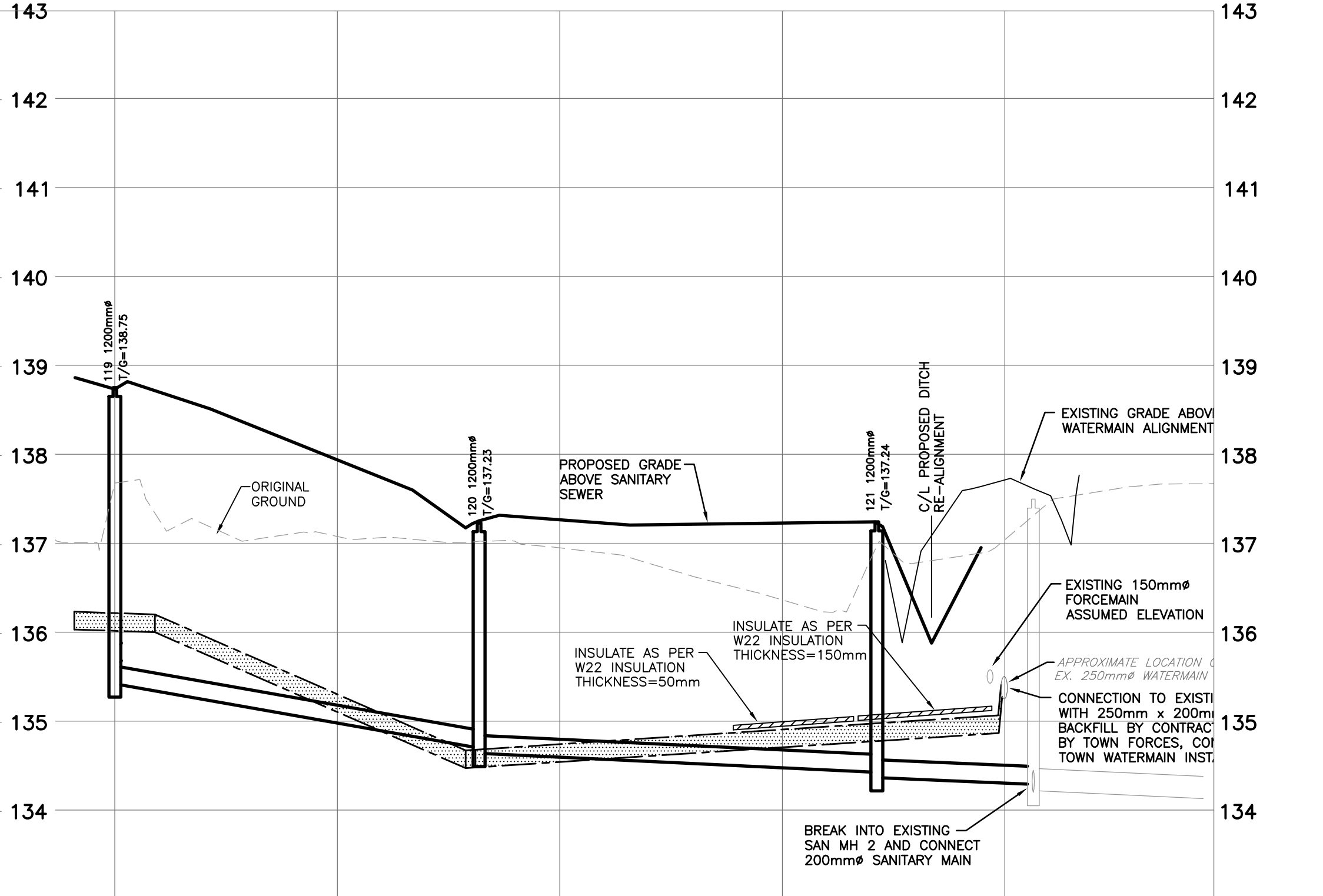
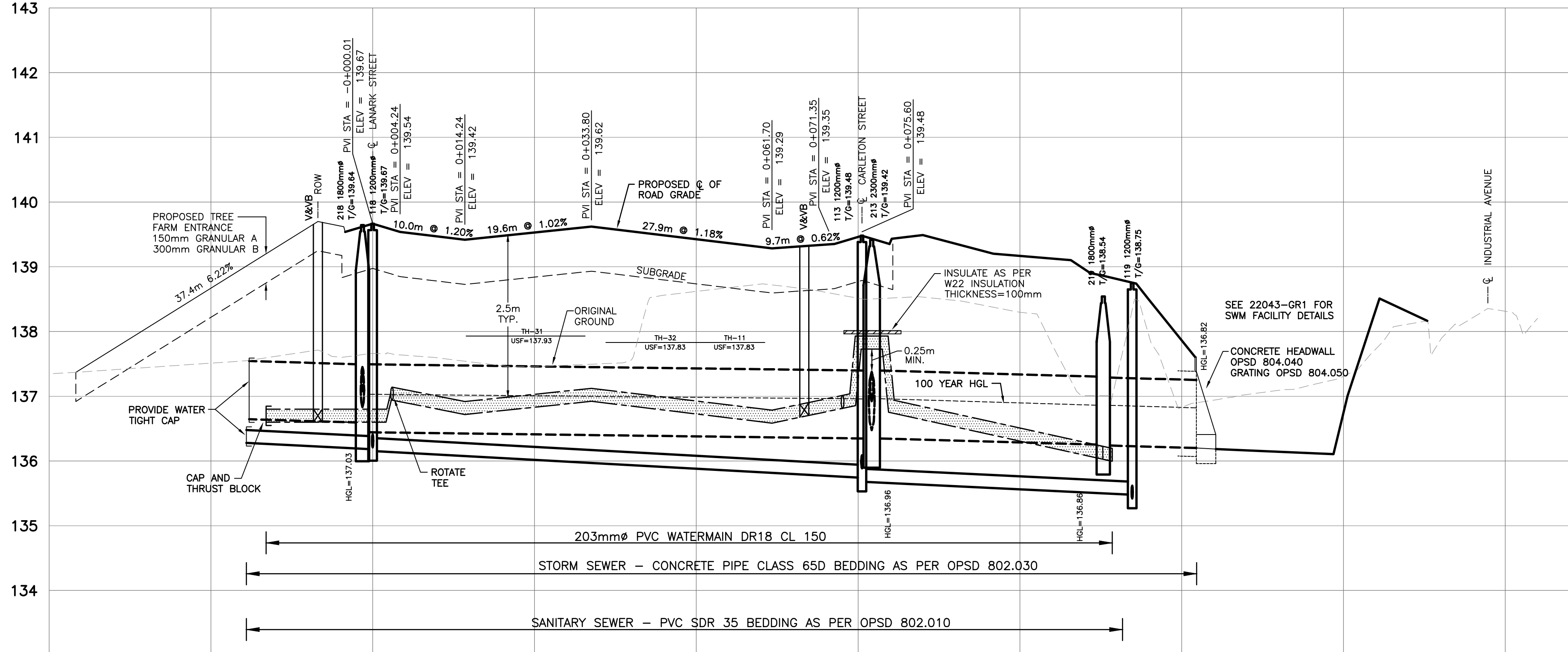
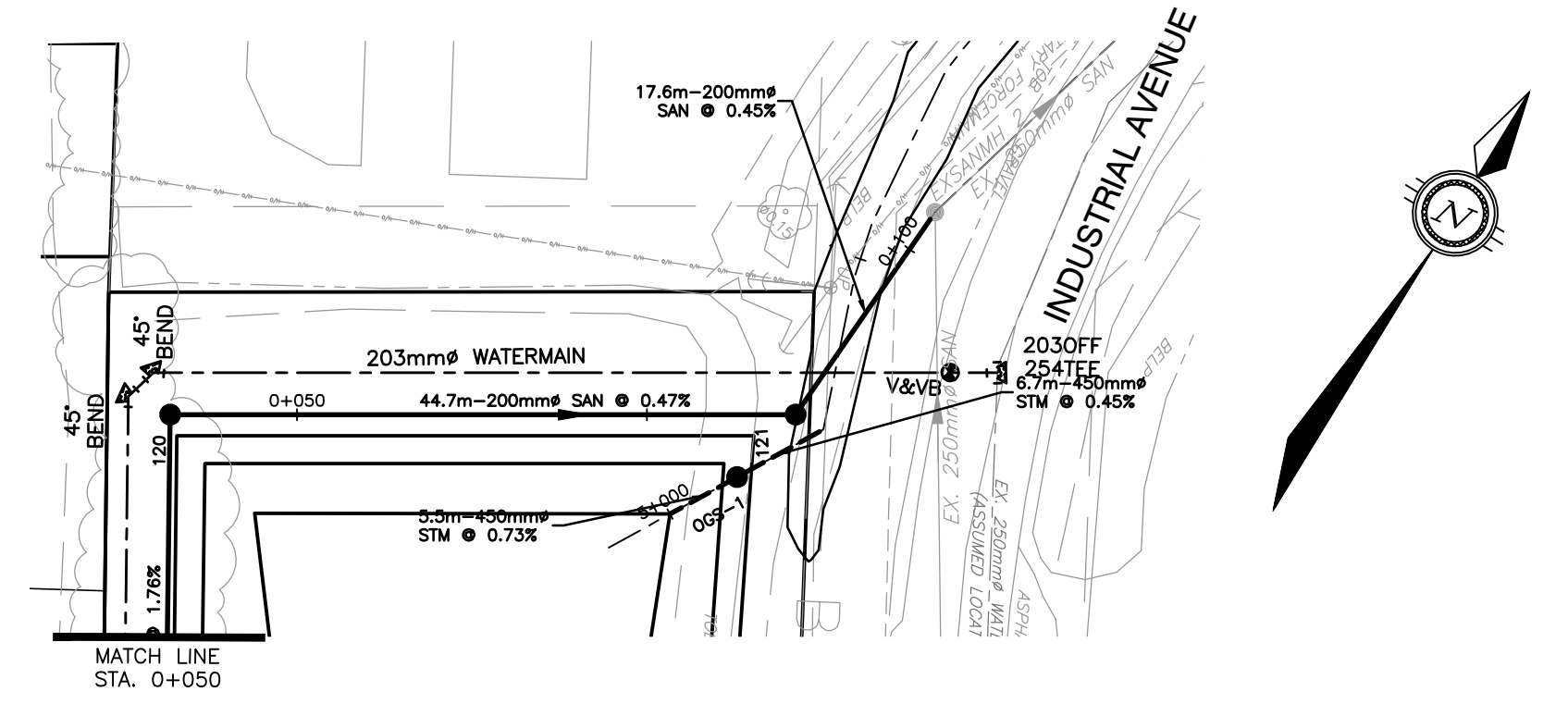
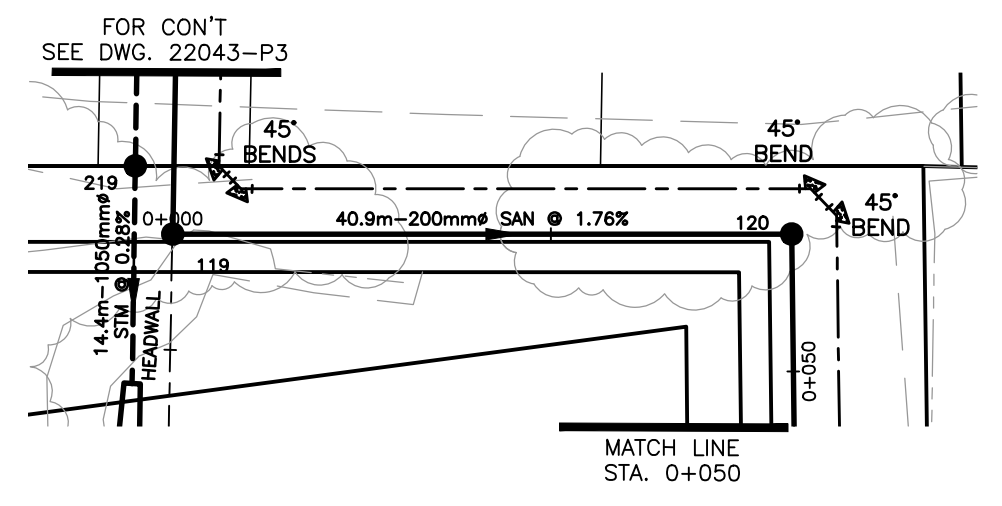
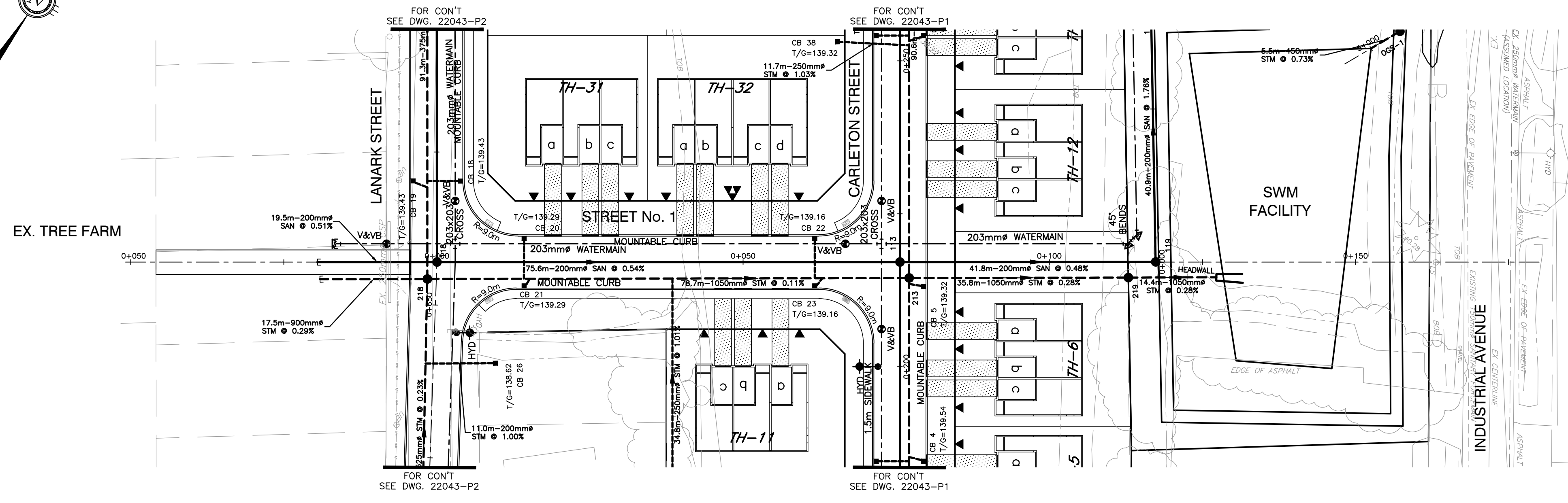
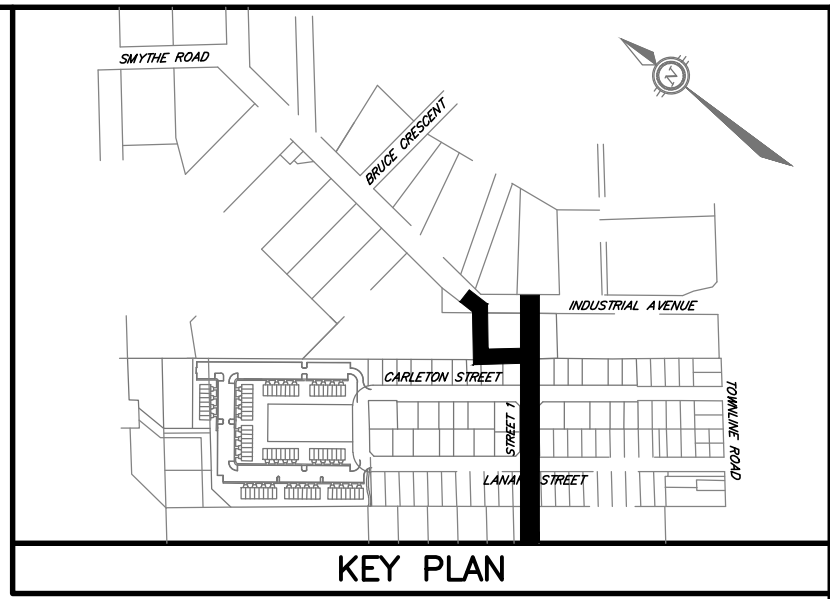
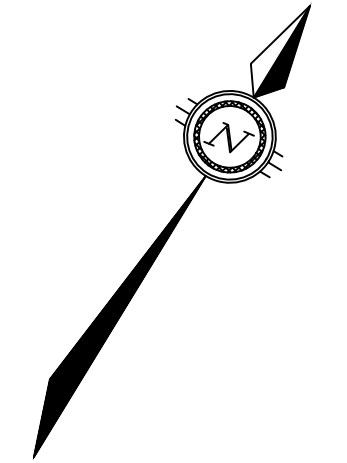
**INVERNESS HOMES**

**CARLETON / LANARK SUBDIVISION**  
 CARLETON PLACE, ONTARIO

**PLAN AND PROFILE**  
 CARLETON STREET / LANARK STREET  
 STA 0+375 TO STA 0+725

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-P2

**NOT FOR CONSTRUCTION**



PROPOSED ROAD ELEVATION	137.35	137.51	136.67	137.46	136.62	136.79	136.89	136.94	136.51	136.20	136.75	137.04	137.23	135.07	PROPOSED ROAD ELEVATION										
TOP OF WATERMAIN ELEVATION		136.80	136.80	136.92	137.03	137.12	136.63	136.79	136.89	136.20	136.20	135.30	134.91	135.07	TOP OF WATERMAIN ELEVATION										
STORM SEWER INVERT		136.84	136.80	136.92	137.03	137.12	136.63	136.79	136.89	136.20	136.20	135.30	134.91	135.07	STORM SEWER INVERT										
SANITARY SEWER INVERT		136.28	136.28	136.32	136.43	136.54	136.03	136.19	136.29	135.42	135.42	134.58	134.19	134.35	SANITARY SEWER INVERT										
EXISTING C. R.O.W. ELEVATION	137.35	137.51	136.67	137.46	136.62	136.79	136.89	136.94	136.51	136.20	136.75	137.04	137.23	135.07	EXISTING C. R.O.W. ELEVATION										
CHAINAGE	0+000	0+025	0+040	0+050	0+067	0+072.6	0+073	0+074	0+100	0+113	0+114	0+117.4	0+125	0+150	0+175	0+000	0+025	0+040	0+050	0+075	0+085.6	0+100	0+102.2	0+175	CHAINAGE

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SCALE  
HORIZONTAL 1:500  
VERTICAL 1:50

**Robinson Land Development**  
350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	AHJ
DRAWN	JHB
CHECKED	AHJ
APPROVED	AHJ

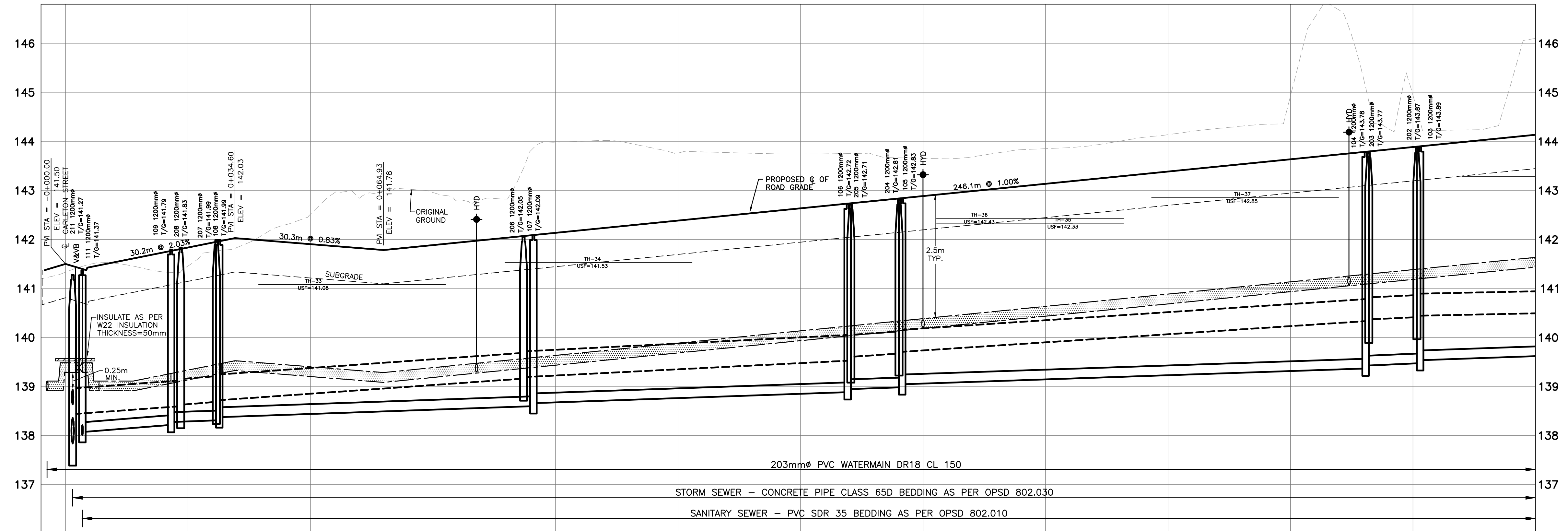
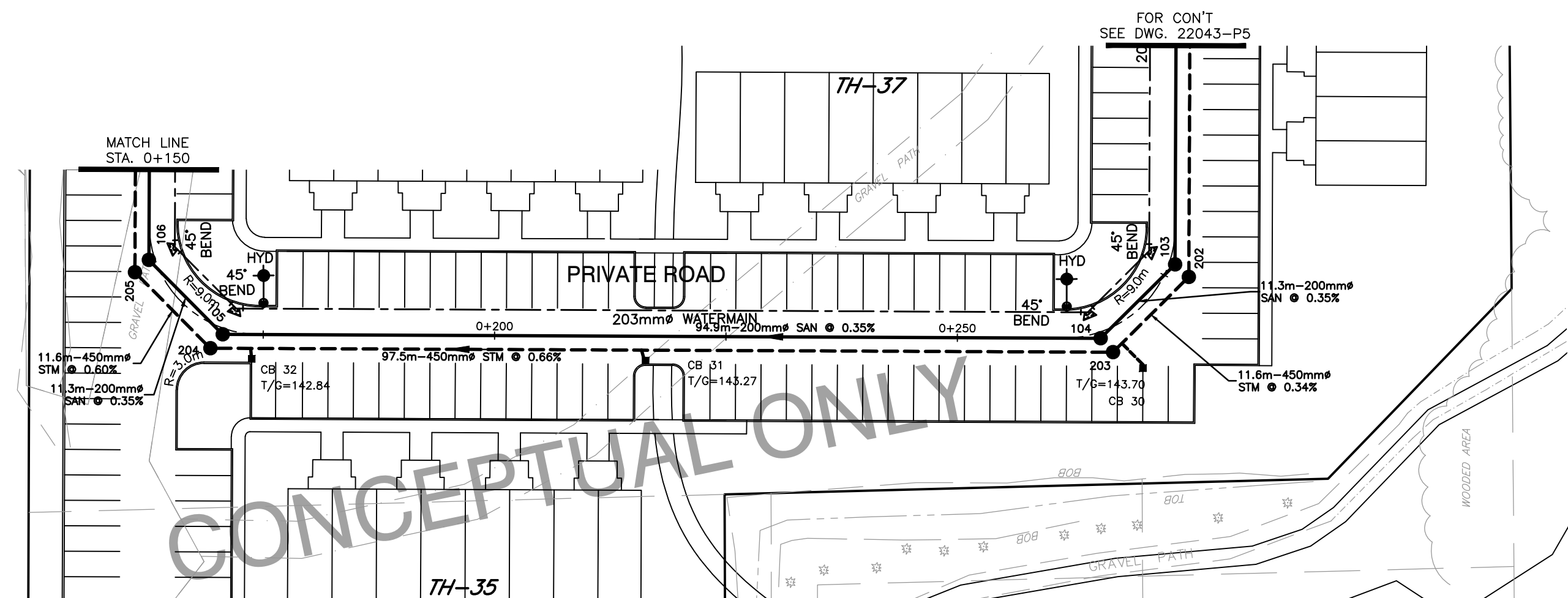
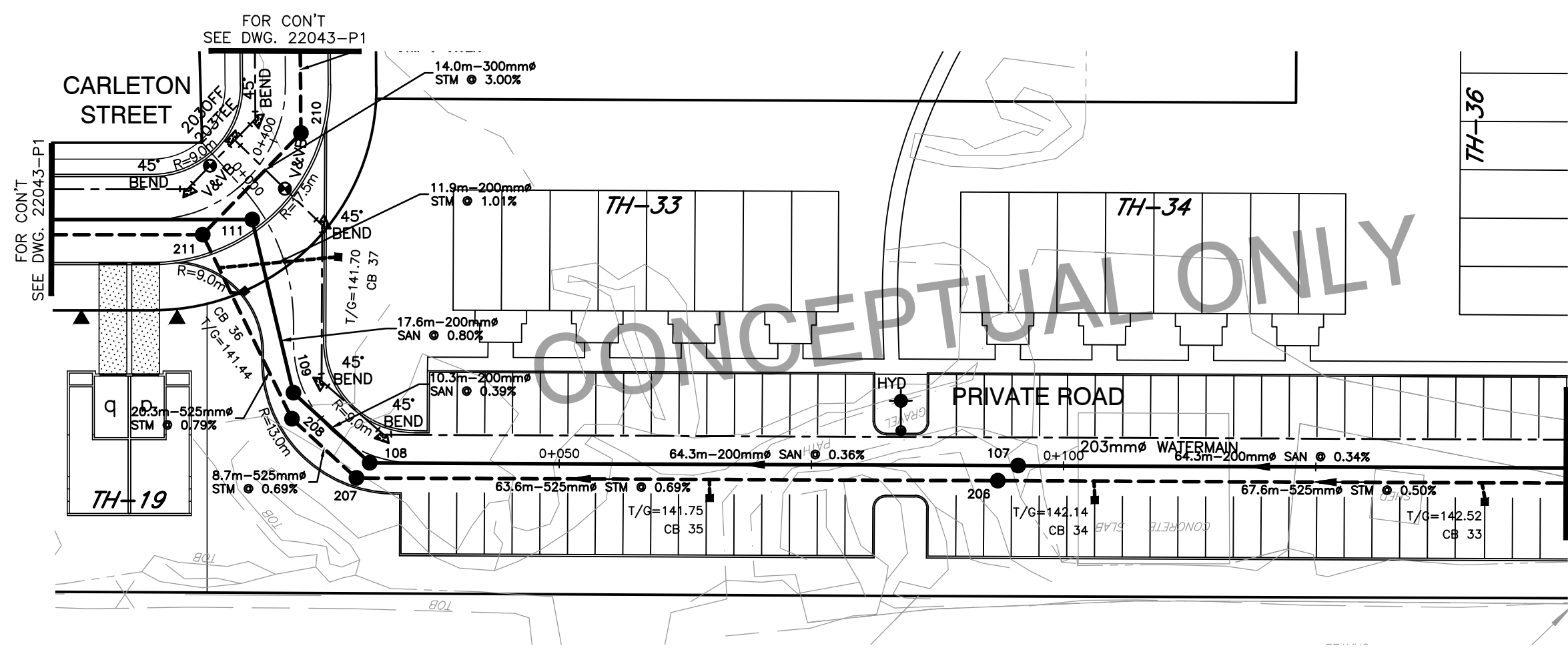
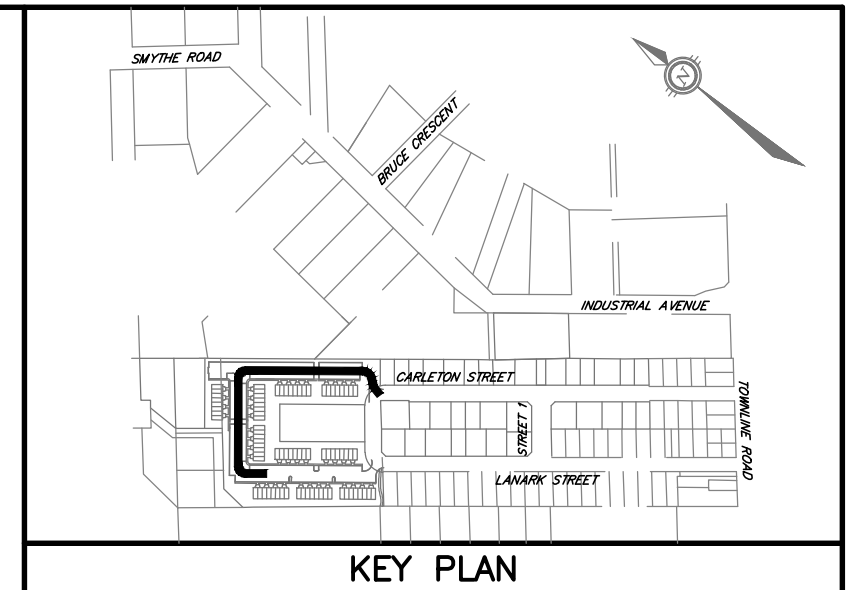
**INVERNESS HOMES**  
CARLETON / LANARK SUBDIVISION  
CARLETON PLACE, ONTARIO

**PLAN AND PROFILE**  
STREET No. 1  
STA 0+050 TO STA 0+175  
SANITARY OUTLET  
STA 0+000 TO STA 0+102

PROJECT No. 22043  
SURVEY FMW  
DATED DEC. 2022  
DWG. No. 22043-P3



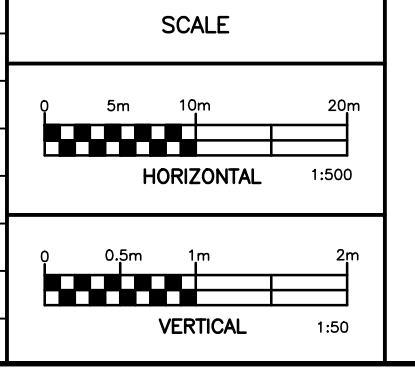
**NOT FOR CONSTRUCTION**



PROPOSED ROAD CL ELEVATION	TOP OF WATERMAIN ELEVATION	STORM SEWER INVERT	SANITARY SEWER INVERT	EXISTING CL R.O.W ELEVATION	CHAINAGE	PROPOSED ROAD CL ELEVATION	TOP OF WATERMAIN ELEVATION	STORM SEWER INVERT	SANITARY SEWER INVERT	EXISTING CL R.O.W ELEVATION	CHAINAGE
141.50	139.11	138.63	138.07	141.33	0+000	141.50	139.11	138.63	138.07	141.33	0+000
141.83	139.26	138.79	138.23	141.46	0+016	141.83	139.26	138.79	138.23	141.46	0+016
141.90	139.40	138.92	138.36	142.51	0+050	141.90	139.40	138.92	138.36	142.51	0+050
141.88	139.38	138.90	138.34	142.86	0+075	141.88	139.38	138.90	138.34	142.86	0+075
142.13	139.63	139.15	138.59	143.88	0+100	142.13	139.63	139.15	138.59	143.88	0+100
142.38	139.88	139.40	138.84	143.26	0+125	142.38	139.88	139.40	138.84	143.26	0+125
142.63	140.13	139.65	139.09	143.74	0+150	142.63	140.13	139.65	139.09	143.74	0+150
142.88	140.35	139.87	139.31	143.65	0+175	142.88	140.35	139.87	139.31	143.65	0+175
143.13	140.63	140.15	139.59	143.85	0+200	143.13	140.63	140.15	139.59	143.85	0+200
143.38	140.88	140.40	139.84	144.14	0+225	143.38	140.88	140.40	139.84	144.14	0+225
143.63	141.13	140.65	140.09	144.93	0+250	143.63	141.13	140.65	140.09	144.93	0+250
143.88	141.38	140.90	140.34	144.84	0+275	143.88	141.38	140.90	140.34	144.84	0+275
144.13	141.63	141.15	140.59	146.10	0+300	144.13	141.63	141.15	140.59	146.10	0+300

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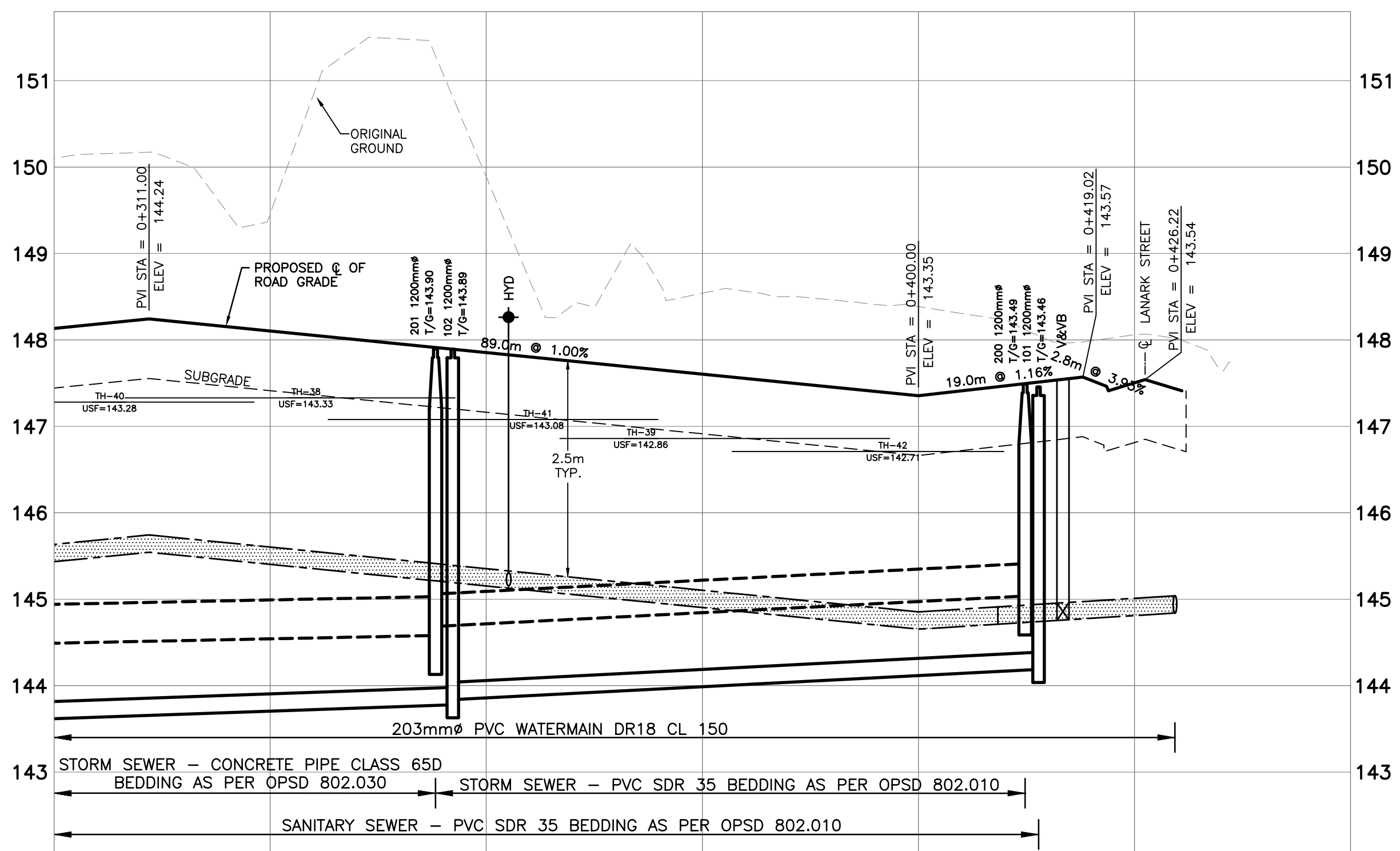
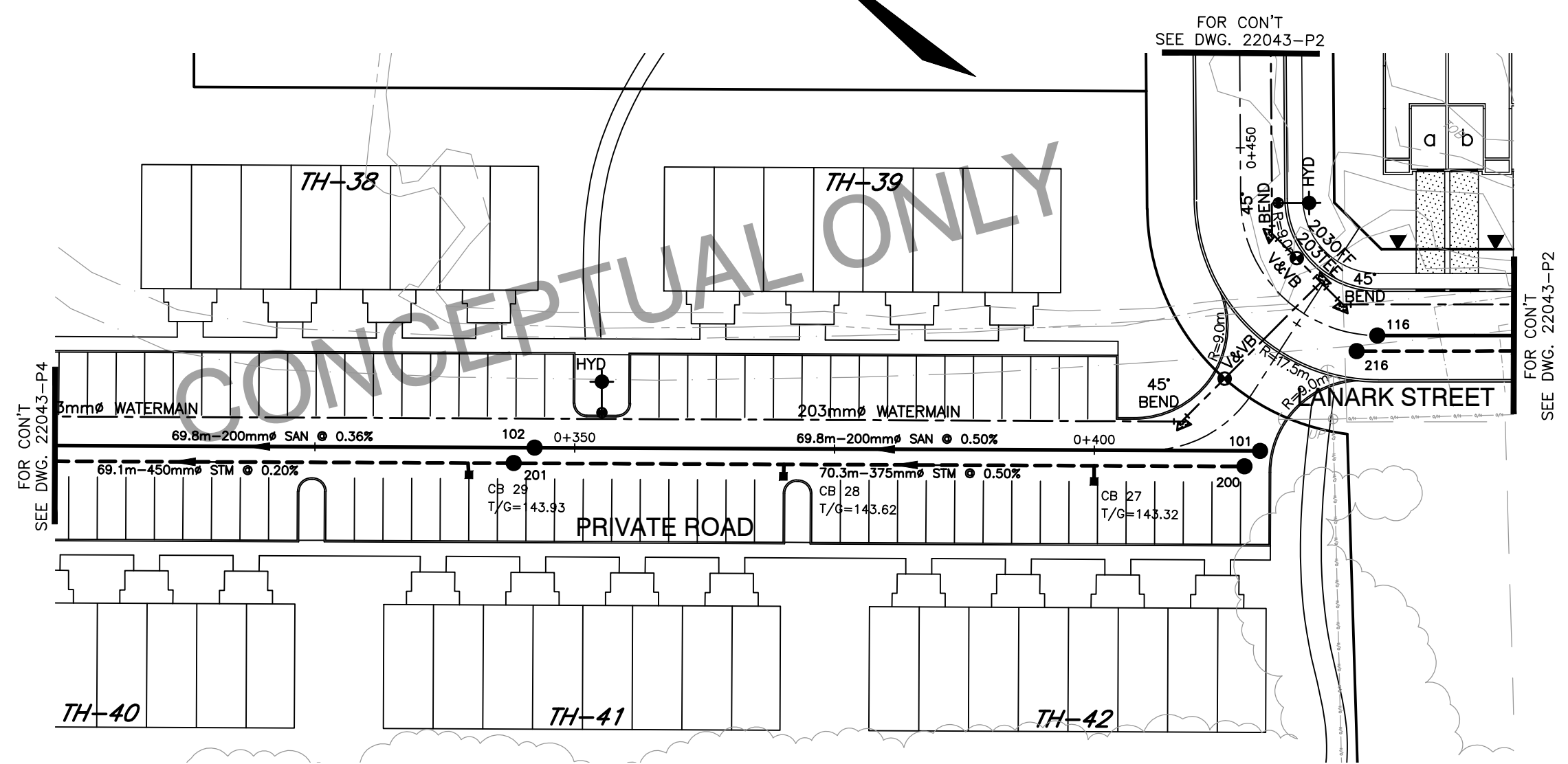
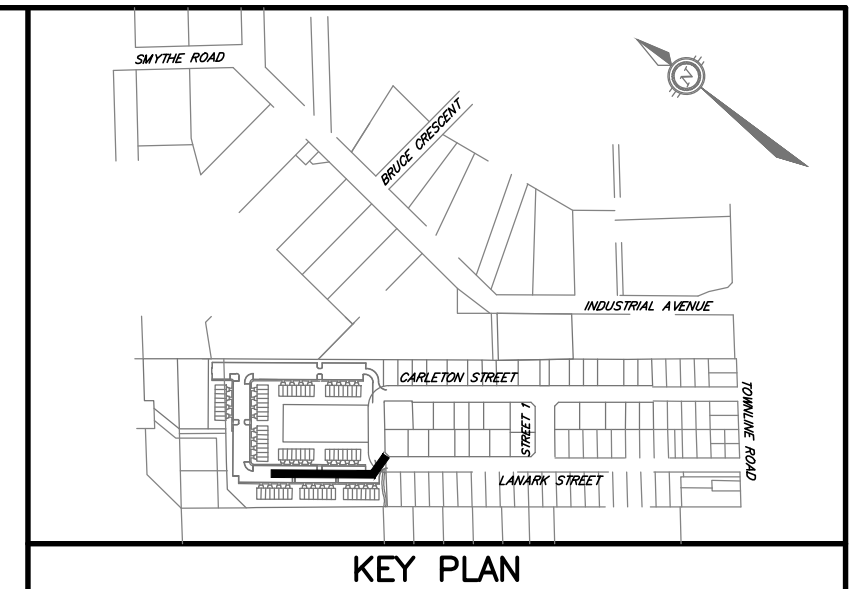
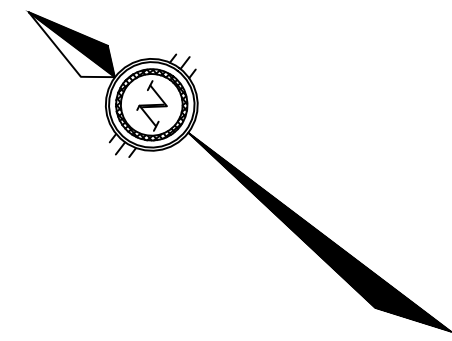
NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	14/12/21	AHJ



**Robinson Land Development**  
 350 Palladium Drive  
 Ottawa, ON K2V 1A8  
 (613) 592-6060 rcii.com

DESIGN	JHB	INVERNESS HOMES	PLAN AND PROFILE PRIVATE ROAD STA 0+000 TO STA 0+300	PROJECT No.	22043
CHECKED	AHJ			SURVEY	FMW
DRAWN	JHB	CARLETON / LANARK SUBDIVISION CARLETON PLACE, ONTARIO	DATED	DEC. 2022	
CHECKED	AHJ		DWG. No.	22043-P4	
APPROVED	AHJ				

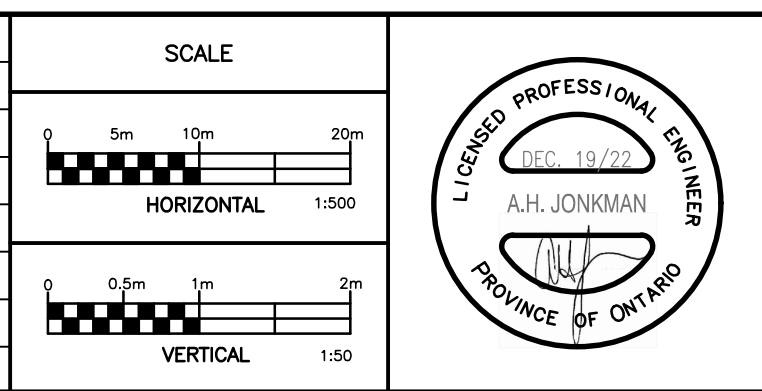
**NOT FOR CONSTRUCTION**



PROPOSED ROAD CL ELEVATION	144.13	144.10	143.85	143.60	143.35	143.50	143.50	PROPOSED ROAD CL ELEVATION	
TOP OF WATERMAIN ELEVATION	141.63	141.74	141.60	141.35	141.33	141.04	141.04	TOP OF WATERMAIN ELEVATION	
STORM SEWER INVERT	69.1m-450mm STM @ 0.20%		140.09 SE 140.35 NN	70.3m-375mm STM @ 0.50%		141.04 NN	141.04 NN	STORM SEWER INVERT	
SANITARY SEWER INVERT	69.8m-200mm SAN @ 0.36%		139.84 SE 139.76 NN	69.8m-200mm SAN @ 0.50%		140.19 NN	140.19 NN	SANITARY SEWER INVERT	
EXISTING CL R.O.W ELEVATION	146.10	145.46	145.59	144.54	144.39	144.06	144.06	EXISTING CL R.O.W ELEVATION	
CHAINAGE	0+300	0+325	0+341.1 0+346.1	0+350 0+352.6	0+375	0+400	0+409.2 0+412.4 0+413.9 0+416.7	0+425 0+429.6	0+450

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(613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	AHJ
DRAWN	JHB
CHECKED	AHJ
APPROVED	AHJ

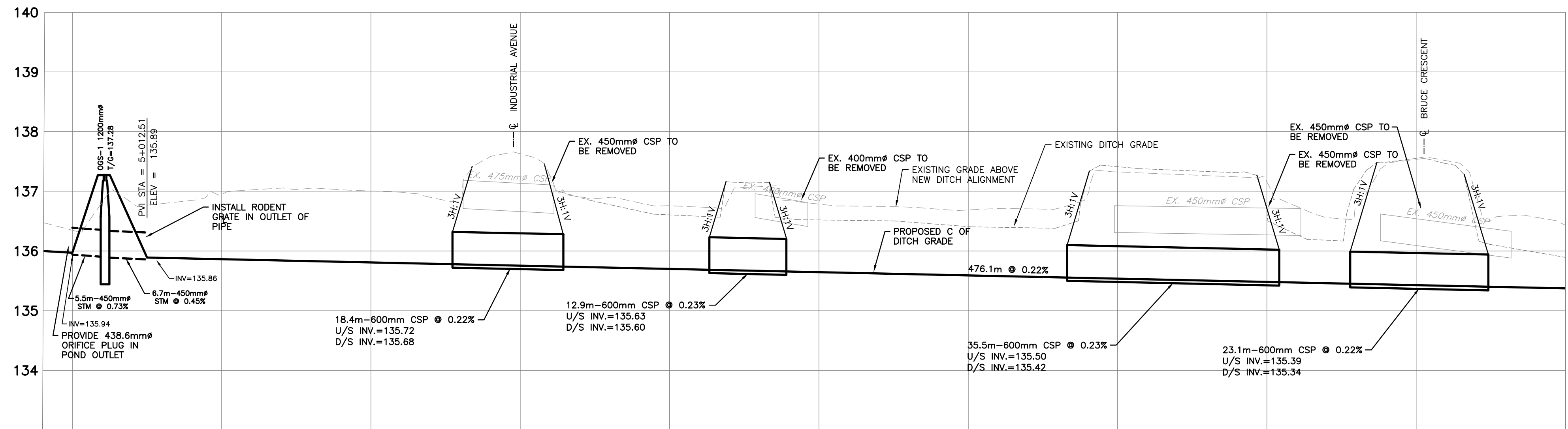
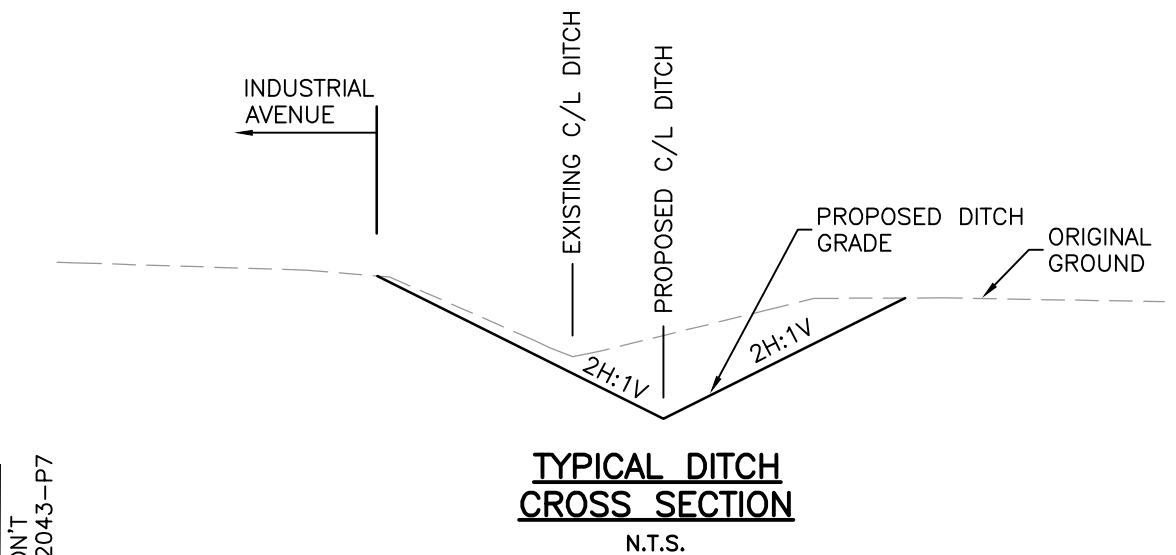
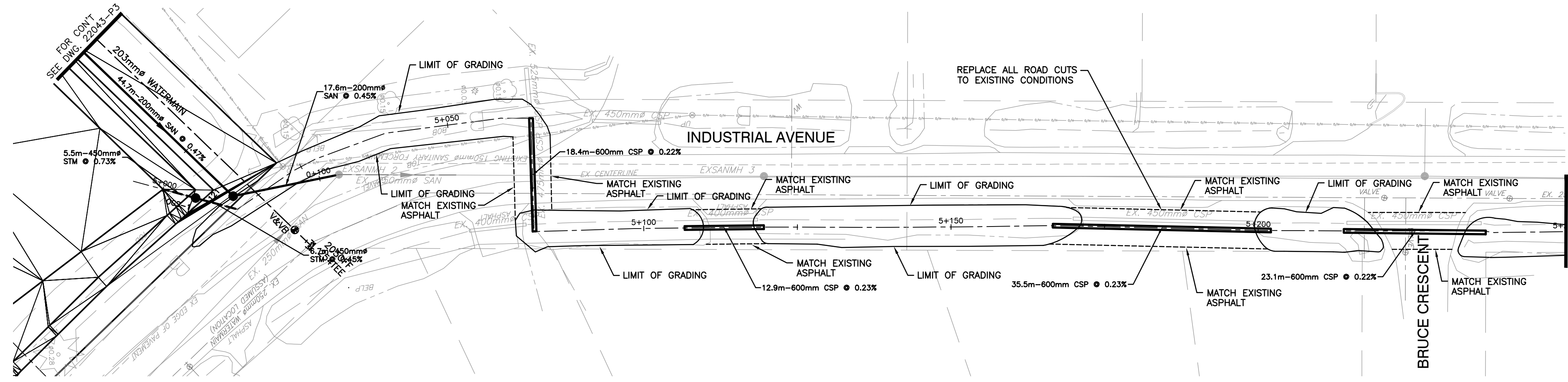
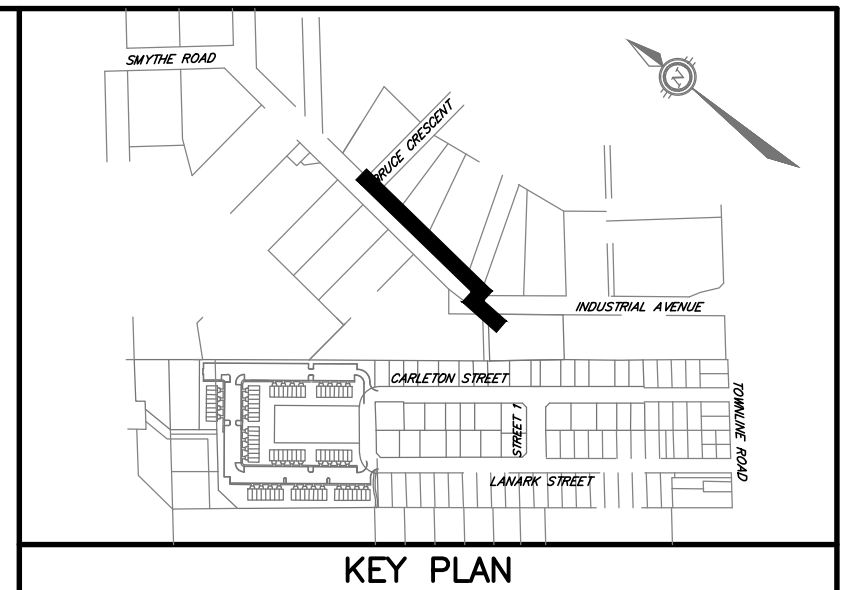
PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-P5

INVERNESS HOMES

CARLETON / LANARK  
SUBDIVISION  
CARLETON PLACE, ONTARIO

PLAN AND PROFILE  
PRIVATE ROAD  
STA 0+300 TO STA 0+430

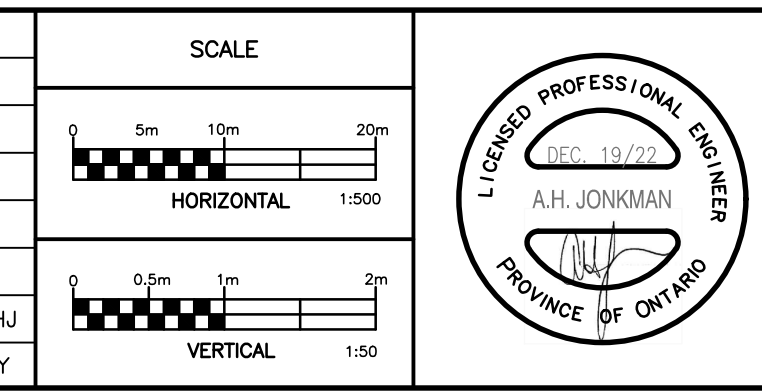
**NOT FOR CONSTRUCTION**



PROPOSED ROAD C/E ELEVATION		135.86	135.81	135.75	135.70	135.64	135.59	135.54	135.48	135.43	135.37	PROPOSED ROAD C/E ELEVATION
TOP OF WATERMAIN ELEVATION												TOP OF WATERMAIN ELEVATION
STORM SEWER INVERT	135.59 @ 135.58											STORM SEWER INVERT
SANITARY SEWER INVERT												SANITARY SEWER INVERT
EXISTING C/E R.O.W ELEVATION	136.35	136.84	137.00	137.63	136.76	136.79	136.69	137.32	137.16	137.54	136.43	EXISTING C/E R.O.W ELEVATION
CHAINAGE	5+000 5+005.5	5+102.5	5+160	5+175	5+1100	5+1125	5+1150	5+1175	5+1200	5+1225	5+280	CHAINAGE

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**Robinson Land Development**  
350 Palladium Drive  
Ottawa, ON K2V 1A8  
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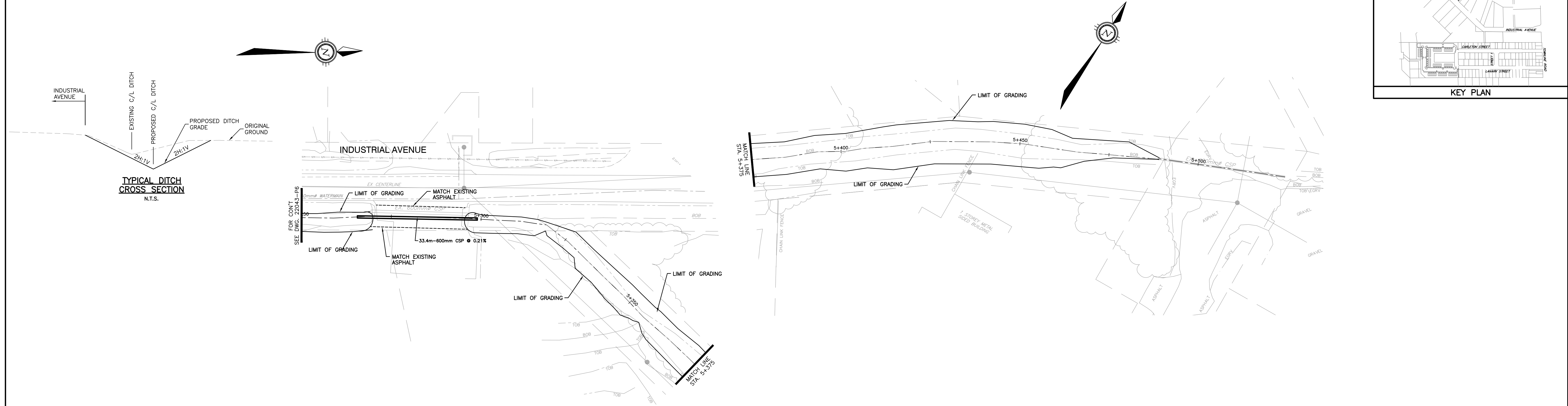
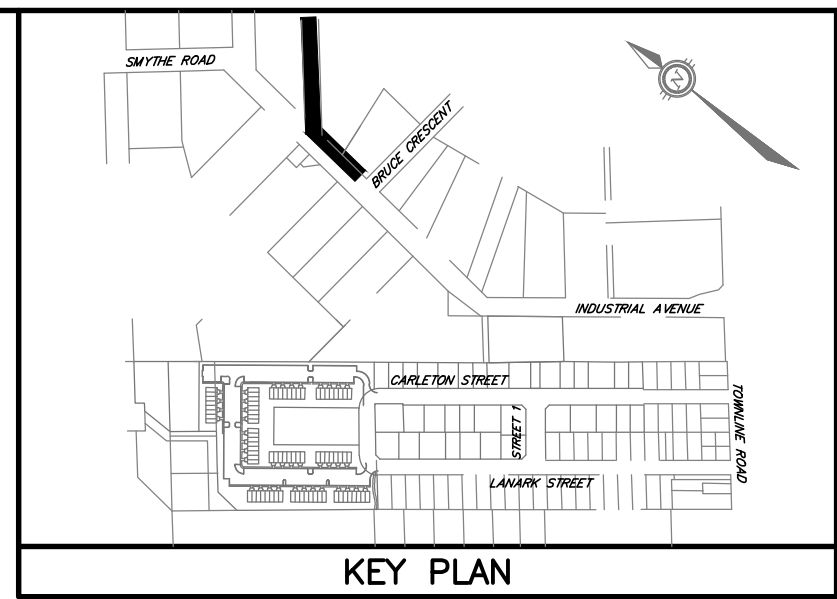
DESIGN	JHB
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APPROVED	AHJ

**INVERNESS HOMES**  
**CARLETON / LANARK SUBDIVISION**  
**CARLETON PLACE, ONTARIO**

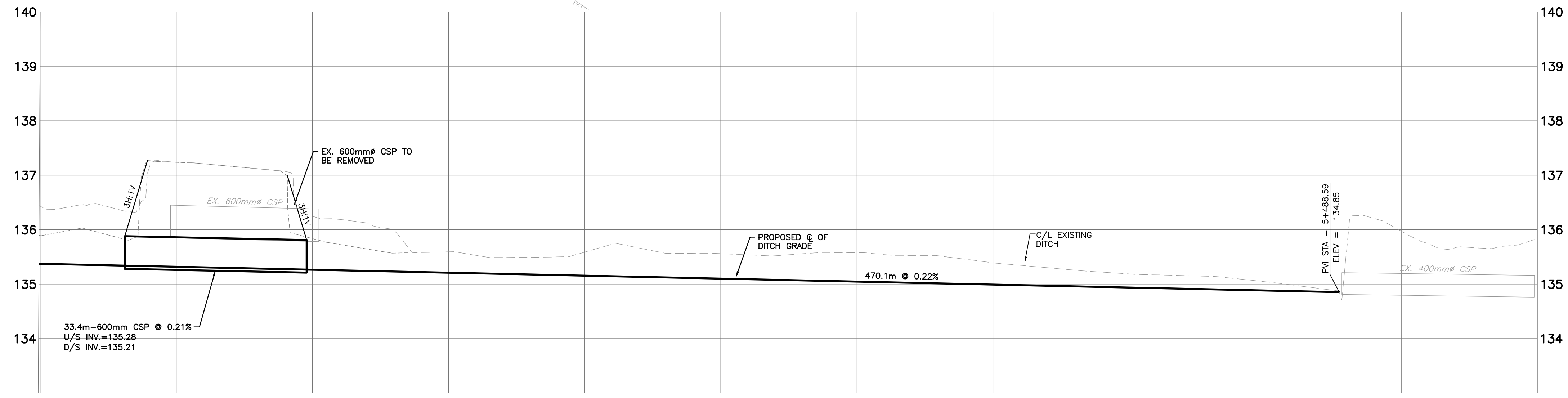
**PLAN AND PROFILE DITCH OUTLET**  
**STA 5+000 TO STA 5+250**

PROJECT No. 22043  
SURVEY FMW  
DATED DEC. 2022  
DWG. No. 22043-P6

**NOT FOR CONSTRUCTION**



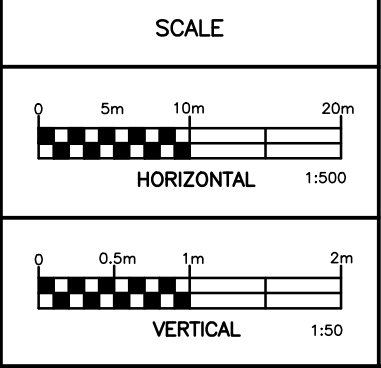
**TYPICAL DITCH CROSS SECTION**  
N.T.S.



PROPOSED ROAD C ELEVATION	135.37	135.32	135.26	135.21	135.15	135.10	135.05	134.99	134.94	134.88	PROPOSED ROAD C ELEVATION		
TOP OF WATERMAIN ELEVATION											TOP OF WATERMAIN ELEVATION		
STORM SEWER INVERT											STORM SEWER INVERT		
SANITARY SEWER INVERT											SANITARY SEWER INVERT		
EXISTING C R.O.W ELEVATION	136.43	137.24	136.25	135.59	135.59	135.56	135.56	135.59	135.19	135.04	EXISTING C R.O.W ELEVATION		
CHAINAGE	5+250	5+275	5+300	5+325	5+350	5+375	5+400	5+425	5+450	5+475	5+500	5+525	CHAINAGE

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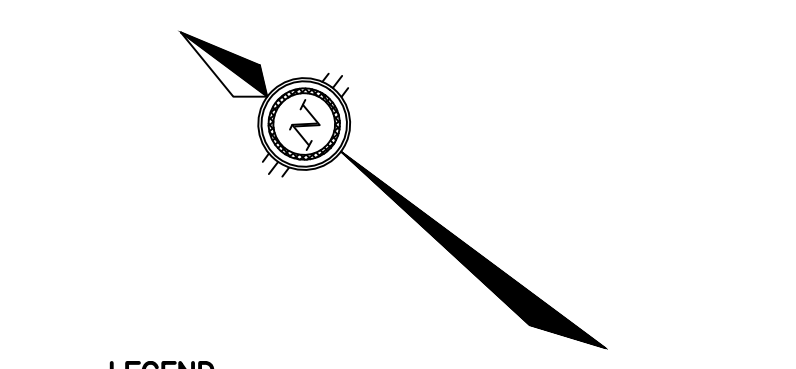
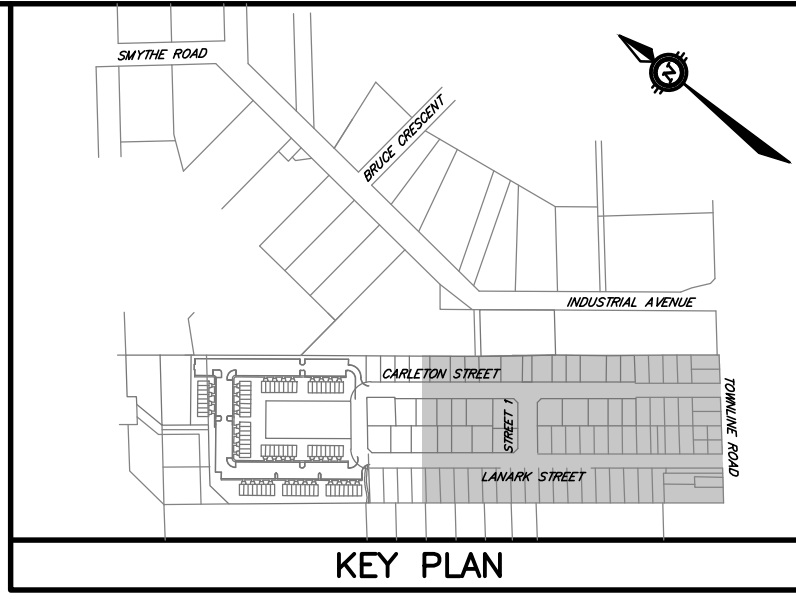
**Robinson** Land Development  
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Ottawa, ON K2V 1A8  
(613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	AHJ
DRAWN	JHB
CHECKED	AHJ
APPROVED	AHJ

**INVERNESS HOMES**  
**CARLETON / LANARK**  
**SUBDIVISION**  
**CARLETON PLACE, ONTARIO**

**PLAN AND PROFILE**  
**DITCH OUTLET**  
**STA 5+250 TO STA 5+525**

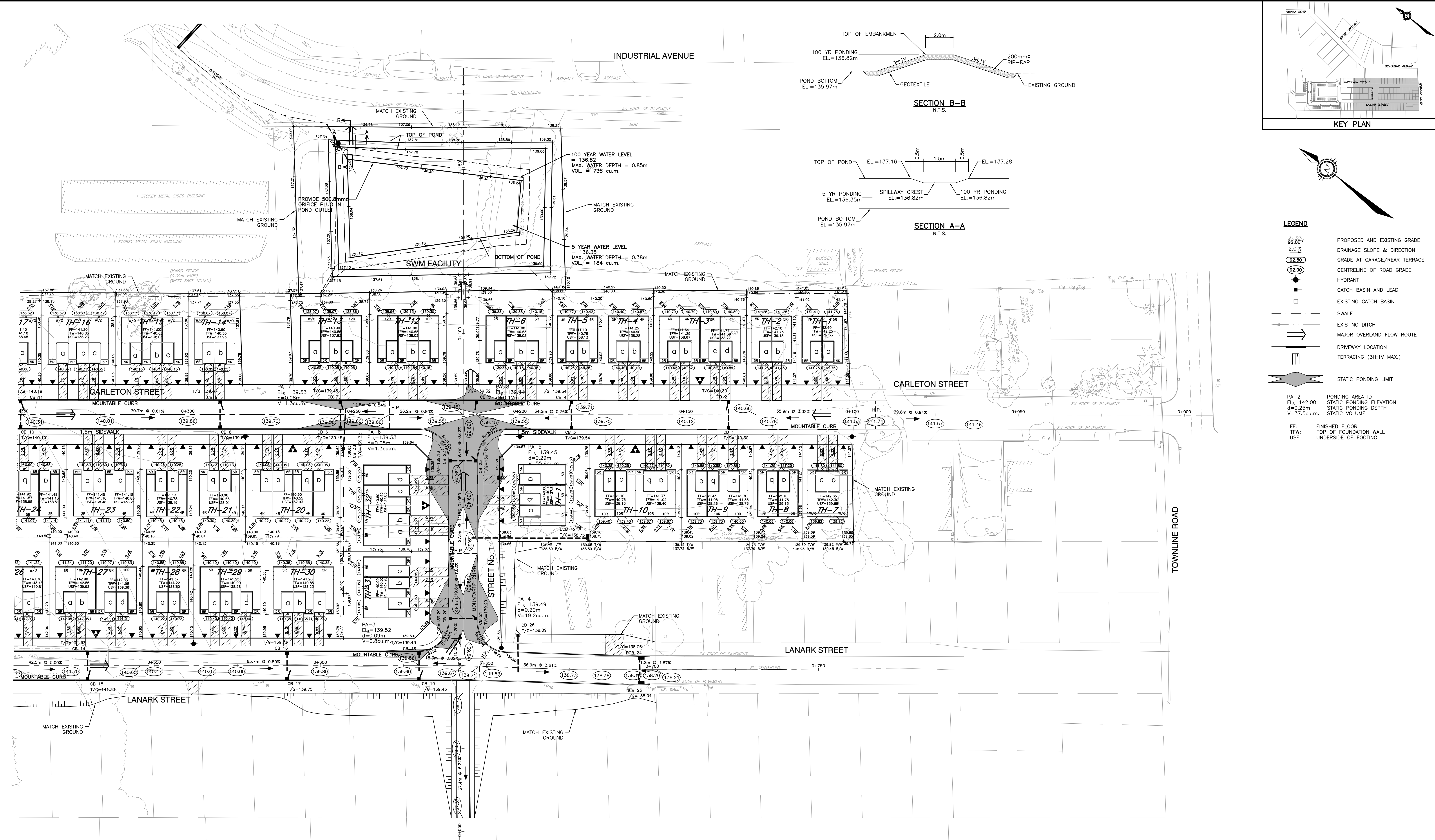
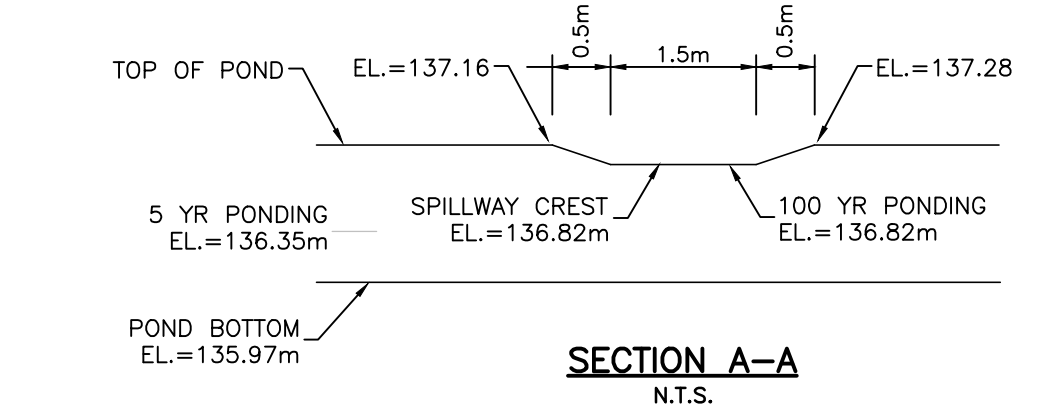
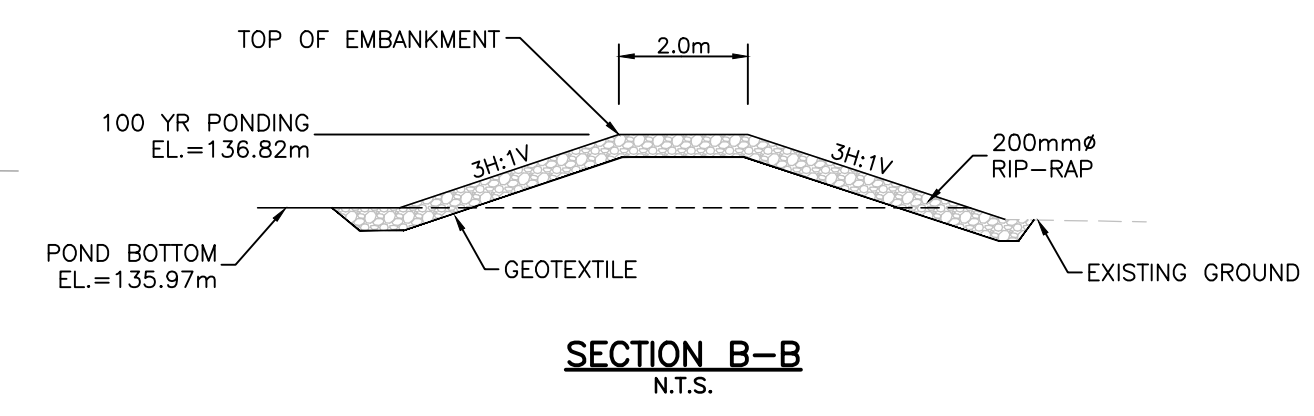
PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-P7



- LEGEND**
- 92.00' PROPOSED AND EXISTING GRADE
  - 2.0% DRAINAGE SLOPE & DIRECTION
  - 92.50 GRADE AT GARAGE/REAR TERRACE
  - 92.00 CENTRELINE OF ROAD GRADE
  - HYDRANT
  - CATCH BASIN AND LEAD
  - EXISTING CATCH BASIN
  - SWALE
  - EXISTING DITCH
  - MAJOR OVERLAND FLOW ROUTE
  - DRIVEWAY LOCATION
  - TERRACING (3H:1V MAX.)
  - STATIC PONDING LIMIT

- PA-2 PONDING AREA ID
- EL=142.00 STATIC PONDING ELEVATION
- d=0.25m MAJOR OVERLAND FLOW ROUTE
- V=37.5cu.m. STATIC PONDING VOLUME

- FF FINISHED FLOOR
- TFW TOP OF FOUNDATION WALL
- USF UNDERSIDE OF FOOTING

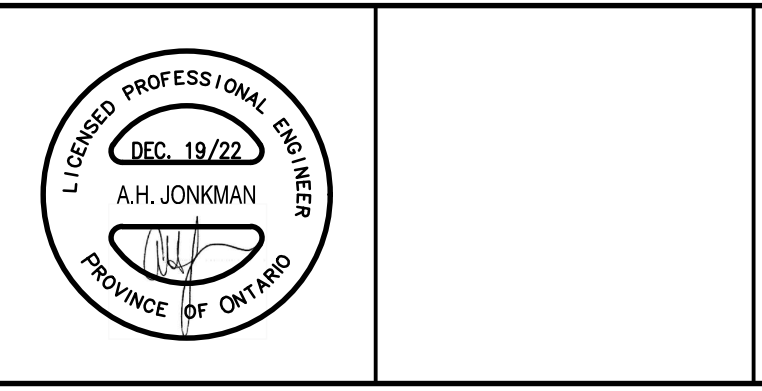


**NOT FOR CONSTRUCTION**

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DESIGN	JHB
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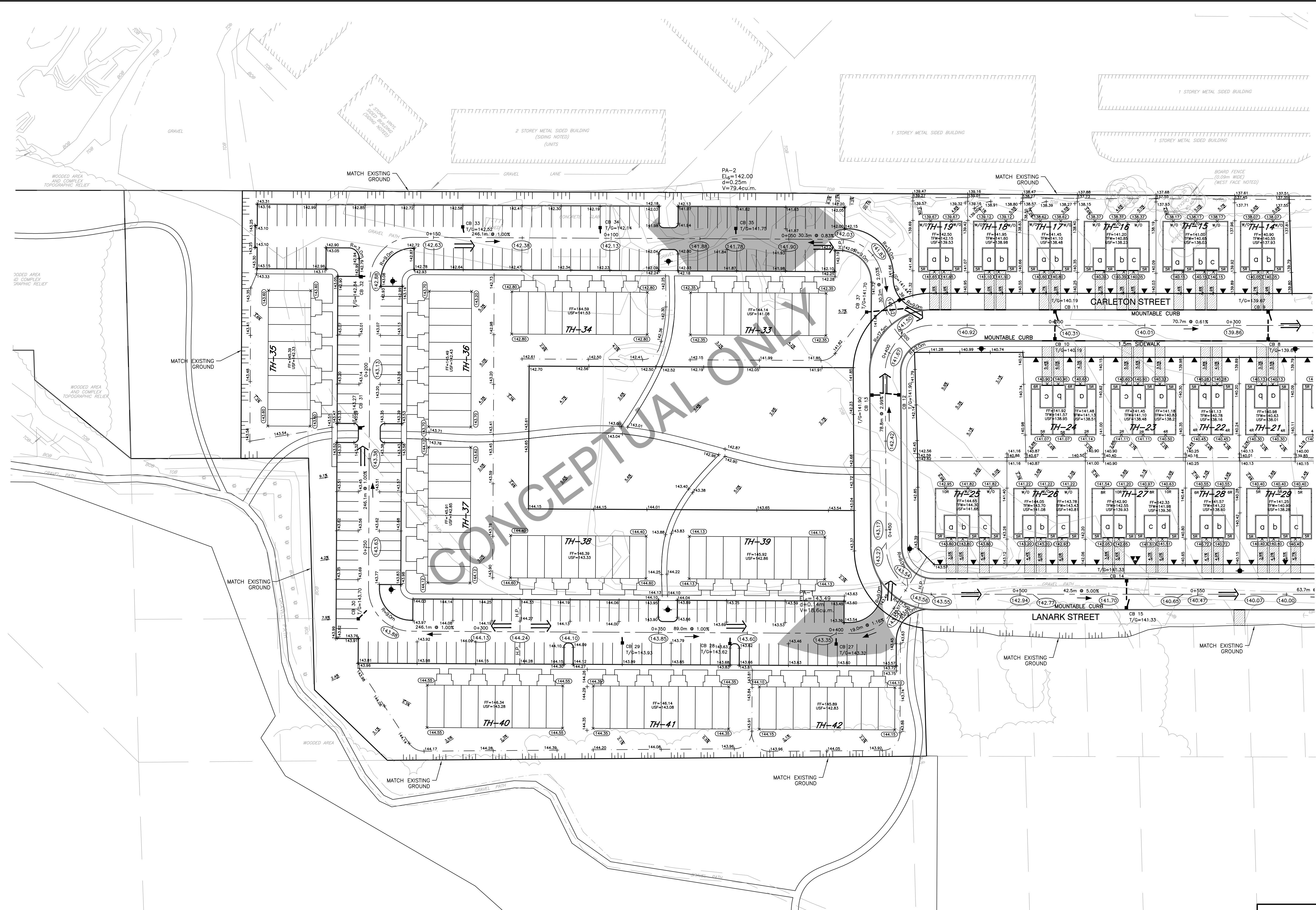
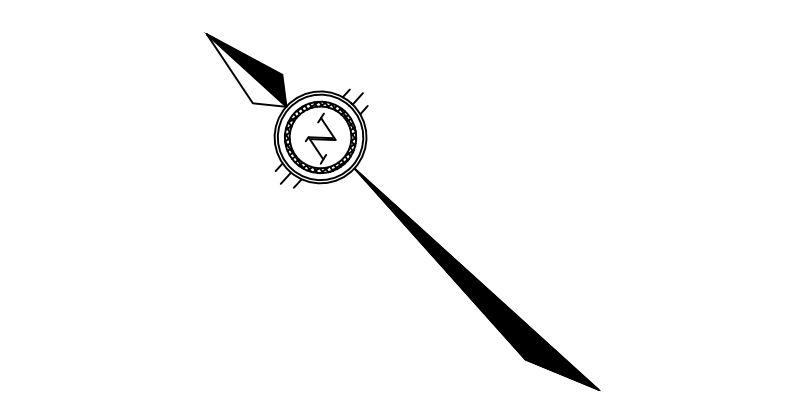
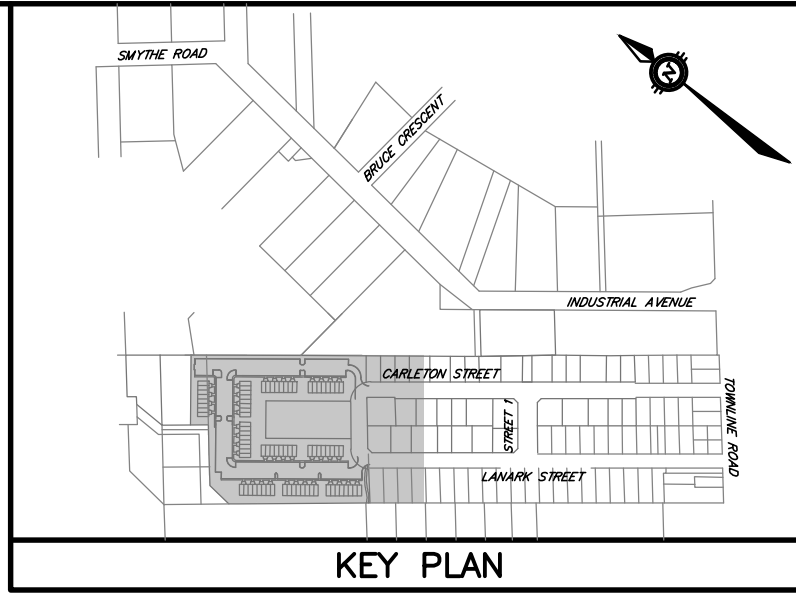
**INVERNESS HOMES**

**CARLETON / LANARK SUBDIVISION**

**CARLETON PLACE, ONTARIO**

**GRADING AND DRAINAGE PLAN**

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-GR1



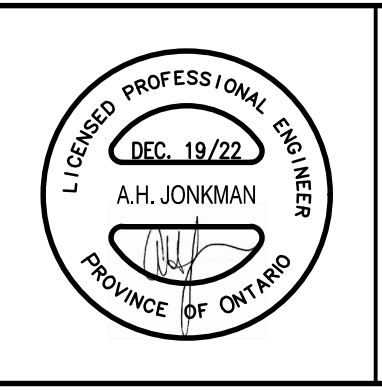
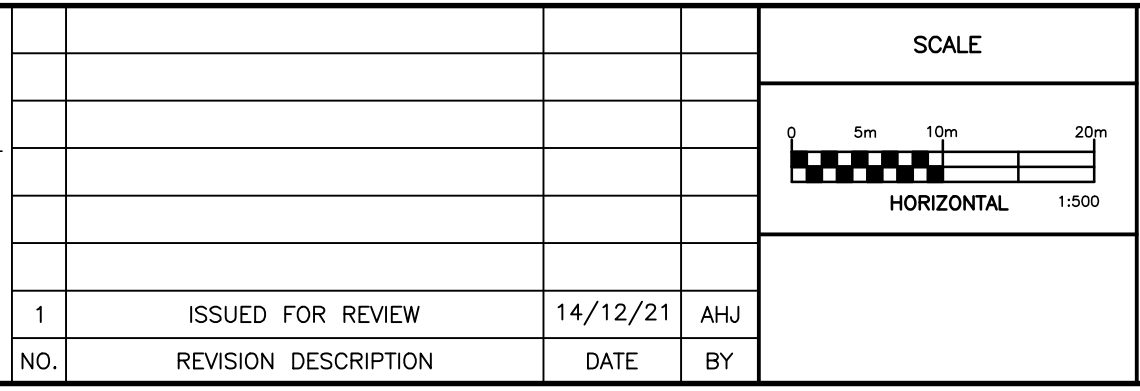
- LEGEND**
- 91.50 PROPOSED AND EXISTING GRADE
  - 92.00<sup>±</sup> DRAINAGE SLOPE & DIRECTION
  - 92.50 GRADE AT GARAGE/REAR TERRACE
  - 92.00 CENTRELINE OF ROAD GRADE
  - Hydrant
  - Catch Basin and Lead
  - Existing Catch Basin
  - Swale
  - Existing Ditch
  - Major Overland Flow Route
  - Driveway Location
  - Terracing (3H:1V MAX.)
  - Static Ponding Limit
  - PA-1 PONDING AREA ID
  - EL=96.97 STATIC PONDING ELEVATION
  - d=0.17m STATIC PONDING DEPTH
  - V=83.1cu.m. STATIC VOLUME
  - FF: FINISHED FLOOR
  - TFW: TOP OF FOUNDATION WALL
  - USF: UNDERSIDE OF FOOTING

**NOT FOR CONSTRUCTION**

**NOTES**

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DESIGN	JHB
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**INVERNESS HOMES**

**CARLETON / LANARK SUBDIVISION**

**CARLETON PLACE, ONTARIO**

**GRADING AND DRAINAGE PLAN**

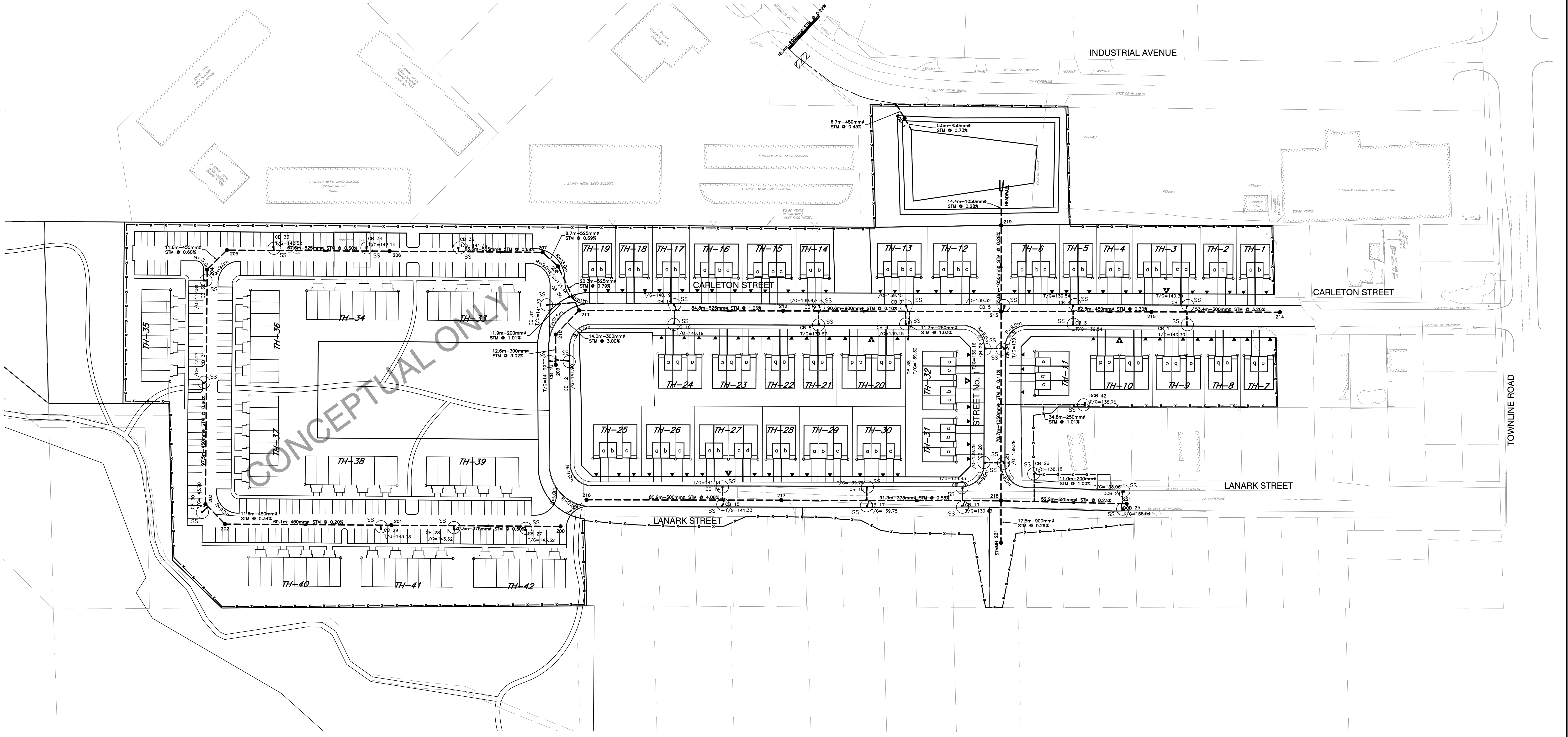
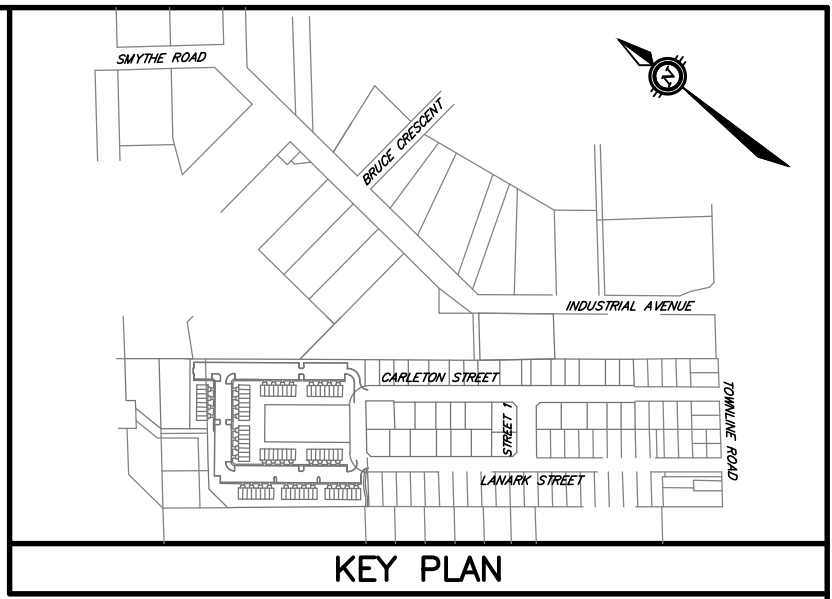
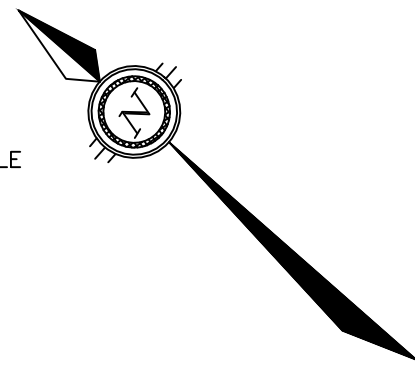
PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-GR2

**NOTES:**

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE ULTIMATE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
2. LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION HAS BEEN RE-ESTABLISHED IN ALL DISTURBED AREAS. RE-VEGETATE DISTURBED AREAS AS SOON AS POSSIBLE.
4. STOCKPILE SOIL AWAY (15 METRES OR GREATER) FROM WATERCOURSES, DRAINAGE FEATURES AND TOP OF STEEP SLOPES.
5. SILT SACKS ARE TO BE PLACED UNDERNEATH THE FRAME AND COVER OF ALL PROPOSED AND EXISTING CATCH BASIN AND OPEN COVER STORM MANHOLES UNTIL CONSTRUCTION IS COMPLETED.
6. A SILT FENCE BARRIER SHALL BE INSTALLED AS PER OPSD 219.1100 WHERE INDICATED AND MAINTAINED AS REQUIRED.
7. STRAW BALE CHECK DAMS TO BE INSTALLED AS PER OPSD 219.1800 WHERE INDICATED AND MAINTAINED AS REQUIRED.
8. DURING ACTIVE CONSTRUCTION PERIODS, VISUAL INSPECTIONS SHALL BE UNDERTAKEN ON A WEEKLY BASIS AND AFTER MAJOR STORM EVENTS (>25mm RAIN IN 24 HOUR PERIOD) ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY.
9. EROSION AND SEDIMENT CONTROL BARRIERS SHALL ALSO BE ASSESSED (AND REPAIRED AS REQUIRED) FOLLOWING SIGNIFICANT SNOWMELT EVENTS.
10. VISUAL INSPECTIONS SHALL ALSO BE UNDERTAKEN IN ANTICIPATION OF LARGE STORM EVENTS (OR A SERIES OF RAINFALL AND/OR SNOWMELT DAYS) THAT COULD POTENTIALLY YIELD SIGNIFICANT RUNOFF VOLUMES.
11. CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION OPERATIONS.
12. IN SOME CASES, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS SHALL BE REINSTATED IMMEDIATELY AFTER CONSTRUCTION OPERATIONS ARE COMPLETED.
13. SEDIMENT CONTROL DEVICES SHALL BE CLEANED OF ACCUMULATED SEDIMENTATION AS REQUIRED AND REPLACED AS NECESSARY.
14. DURING THE COURSE OF CONSTRUCTION, IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES, AS REQUIRED, TO THE SATISFACTION OF THE ENGINEER.
15. CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS ARE TO COMPLY WITH OPSD 805.
16. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OR SOONER IF ENVIRONMENTAL RECEPTORS ARE AT IMMINENT AND FORESEEABLE RISK OF ADVERSE IMPACT.
17. TEMPORARY SEDIMENT CONVEYANCE SYSTEMS AND SEDIMENT POND TO BE IMMEDIATELY STABILIZED.

**LEGEND**

- STORM SEWER AND MANHOLE
- EXISTING STORM SEWER AND MANHOLE
- ROADSIDE CATCH BASIN AND LEAD
- |--- SILT FENCE
- |--- STRAW BALE CHECK DAM
- SS SILT SACK

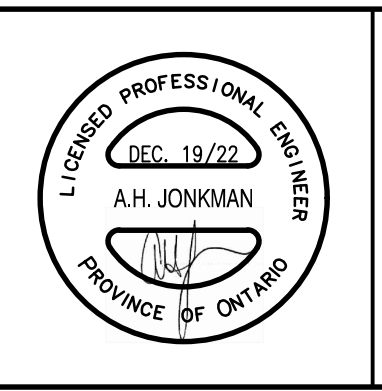
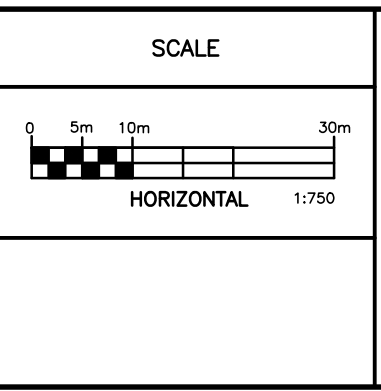


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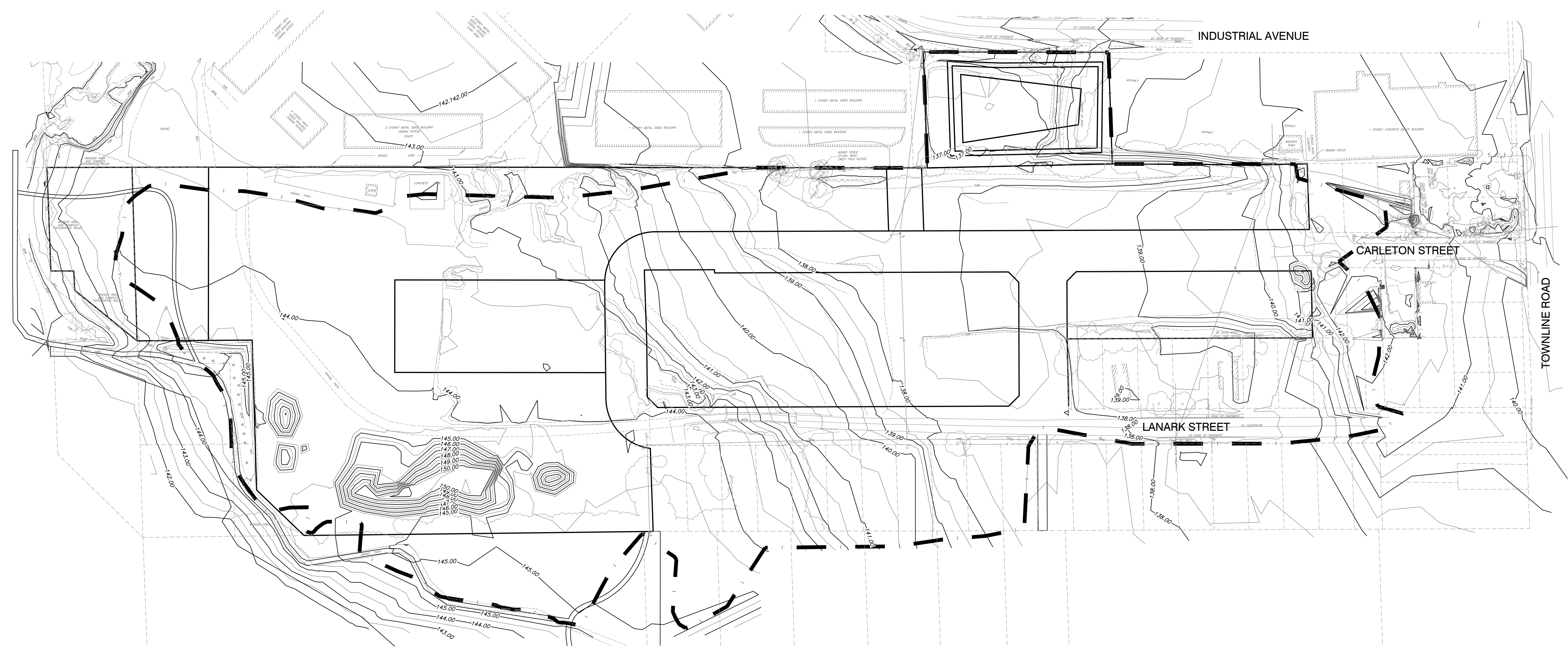
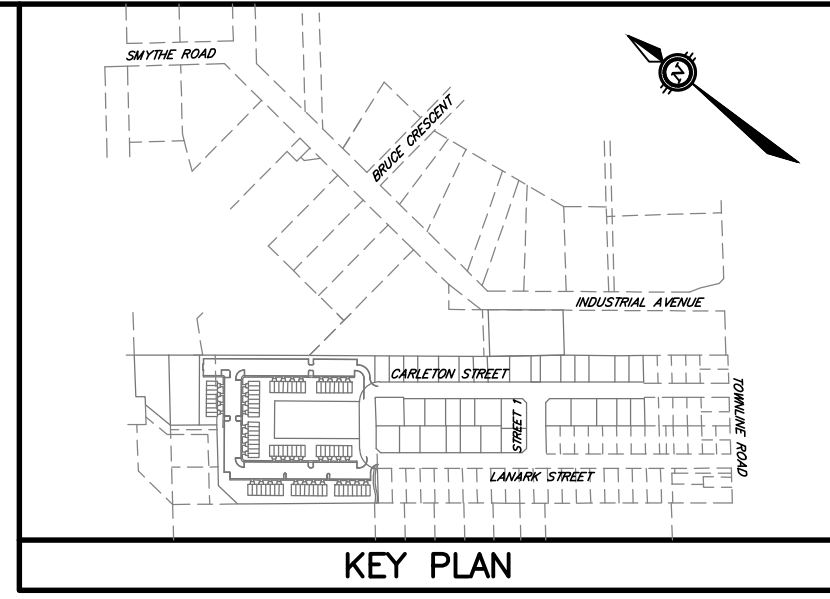
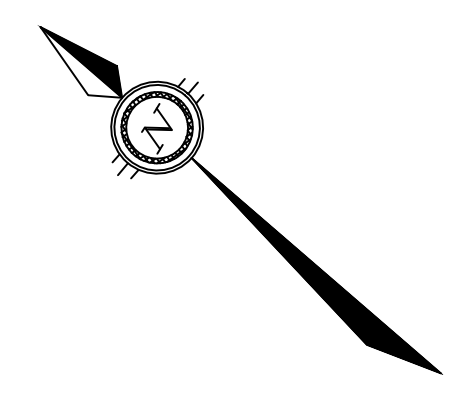
DESIGN	JHB
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**INVERNESS HOMES**

**CARLETON / LANARK  
SUBDIVISION  
CARLETON PLACE, ONTARIO**

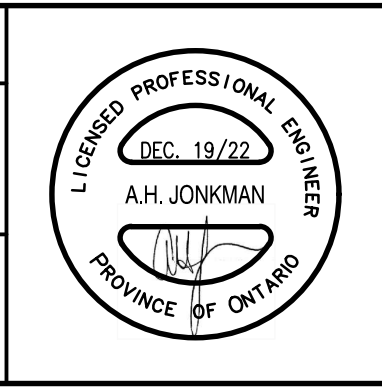
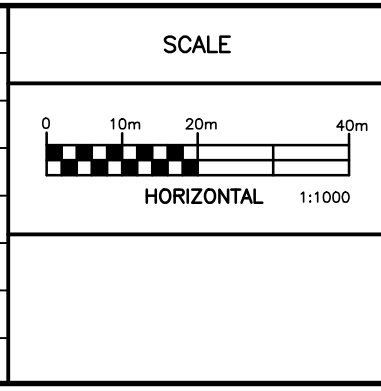
**EROSION AND SEDIMENT  
CONTROL PLAN**

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-ESC1



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**INVERNESS HOMES**  
**CARLETON / LANARK**  
**SUBDIVISION**  
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**EXISTING CONDITIONS PLAN**

PROJECT No.	22043
SURVEY	FMW
DATED	DEC. 2022
DWG. No.	22043-PRE1