

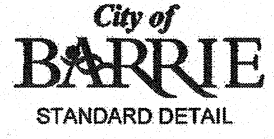
1. GRADE AND CROSSFALL ADJUSTMENT OF MAINTENANCE HOLE AND CATCH-BASIN FRAMES WILL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE.	
2. ADJUSTMENT UNITS MUST BE CERTIFIED TO MEET ALL PERTINENT OPS, CSA, ASTM AND MTO-SDM LISTS, OR OTHER INDUSTRY GUIDELINES FOR MATERIALS, PERFORMANCE AND USE AS APPLICABLE.	
3. ADJUSTMENT UNITS AND JOINTS WILL BE SEALED AND OR PARGED IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND GUIDELINES	
4. 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.	
	GENERAL NOTES ROADWORKS
REV No. 1	DATE: OCT 2017 SCALE: N.T.S.
APPROVED DATE: <i>Oct 28/17</i> DIRECTOR OF ENGINEERING	
BSD-N2	

GENERAL NOTES – SANITARY SEWER			
SANITARY SEWERS			
A. SANITARY SEWER TO BE LOCATED AT THE CENTRELINE OF THE ROAD, UNLESS OTHERWISE SPECIFIED .			
B. SEWERS SHALL BE CONSTRUCTED WITH BEDDINGS AS PER OPSD–802.010, (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD–802.030 OR 802.031 CLASS B (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING.			
C. MAXIMUM DEFLECTION FROM COMBINED LIVE AND DEAD LOADING SHALL NOT EXCEED ANY C.S.A., O.P.S. OR MANUFACTURERS RECOMMENDED SPECIFICATIONS.			
D. PVC, CONCRETE, AND PROFILE WALL PVC SEWERS SHALL HAVE RUBBER GASKET TYPE JOINTS AND SHALL BE CERTIFIED TO CONFORM TO ALL APPLICABLE CURRENT C.S.A. SPECIFICATIONS.			
E. CONCRETE SANITARY SEWERS SHALL HAVE A MINIMUM STRENGTH OF 50 N/m ² /mm CONFORMING TO CSA STANDARD A257.2–1982, CLASS 50–D (PREVIOUSLY C.S.A. STANDARD A257.2–1974, CLASS II).			
F. MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACE. ALL ADJUSTMENT WILL BE ACCORDANCE WITH BSD-N2.			
G. ALL CONNECTIONS TO NEW SANITARY MAINS SHALL BE PRE–MANUFACTURED, FABRICATED TEES, CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE MADE WITH APPROVED FACTORY MADE TEES OR INSERTA–TEES IN STRICT ACCORDANCE TO MANUFACTURES GUIDELINES.			
CITY OF BARRIE STANDARD			
4. NOTE 'B' – "ENGINEERING"	B.R. 2002.10.28	APPR'D: R.G.N.	DATE: 92.05.15
3. NOTE 'B' OPSD NUMBER REVISION	K.C. 2000.03.16	DRAWN: L.A.J.	SCALE: N.T.S.
2. NOTE 'F' CHANGED	K.C. 98.03.30		
1. CHANGES TO B. TO G.	K.C. 98.04.24		
NO.	REVISION	APR'D	DATE
BSD-N3			

GENERAL NOTES – SANITARY SEWER			
SANITARY SERVICE LATERALS			
A. SANITARY LATERAL CONNECTION TO BE LOCATED AT THE CENTRELINE OF THE LOT AND CAPPED.			
B. LOCATION OF LATERAL TO BE MARKED 3.0m PAST BACK OF CURB UNLESS NOTED OTHERWISE & WITH A 50 x 100mm WOOD MARKER, PAINTED GREEN, EXTENDING FROM SERVICE INVERT TO 300mm ABOVE GROUND LEVEL.			
C. PIPE TO BE MINIMUM 100 mm DIA. PVC SDR28, RUBBER GASKET TYPE JOINTS AND SHALL CONFORM TO C.S.A. (B-182.2.3.4) (COLOURED) FOR A RESIDENTIAL HOUSE AND 150mm MINIMUM DIA. PVC SDR28 FOR INDUSTRIAL/COMMERCIAL DEVELOPMENT.			
D. MINIMUM DEPTH OF LATERAL AT PROPERTY LINE SHALL BE 2.4m MEASURED FROM THE SEWER OVERTY TO FINISHED GROUND SURFACE ELEVATION UNLESS NOTED OTHERWISE.			
E. ALL CONNECTIONS TO NEW SANITARY MAINS SHALL BE PRE–MANUFACTURED, FABRICATED TEES, CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE MADE WITH APPROVED FACTORY MADE TEES OR SADDLES IN STRICT ACCORDANCE TO MANUFACTURES GUIDELINES AND THE CITY'S APPROVED PRODUCT LIST.			
F. MINIMUM PIPE SLOPE TO BE 2.0%, MAXIMUM 8.0% (SEE OPSD–1006.010, 1006.020).			
CITY OF BARRIE STANDARD			
GENERAL NOTES SANITARY SEWERS			
2. OPSD NUMBERS REVISED	K.C. 2000.08.17	DRAWN: L.A.J.	SCALE: N.T.S.
1. CHANGES TO B. TO G.	K.C. 95.04.24		
NO.	REVISION	APR'D	DATE
BSD-N4-MOD			

GENERAL NOTES – STORM SEWER			
STORM SEWER			
A. STORM SEWER TO BE PROVIDED ON ALL ROADS WITH CURB AND GUTTER.			
B. PLACE ALL CATCH BASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED. PIPE SIZE MINIMUM 300mm DIA. SINGLE , 300mm DIA. DOUBLE.			
C. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD–802.010 (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD–802.030 OR 802.031 CLASS B (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING.			
D. MAINTENANCE HOLE TOPS (FRAMES) AND CATCH BASIN (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED. ALL ADJUSTMENT WILL BE ACCORDANCE WITH BSD-N2.			
E. STORM SEWER TO BE LOCATED OFFSET 3.0m SOUTH OR EAST OF CENTRELINE UNLESS OTHERWISE SPECIFIED.			
F. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STORM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD–708.01 OR 708.03.			
G. PIPE MATERIAL TO BE REINFORCED CONCRETE WITH A MINIMUM STRENGTH OF 50 N/m ² /mm CERTIFIED TO C.S.A. STANDARD A247.2–1982, CLASS 50–D (PREVIOUSLY C.S.A. STANDARD A257.2–1974, CLASS II) OR PVC CERTIFIED TO C.S.A. STANDARDS 182.2 AND 182.4.			
H. STORM SEWER TO BE MINIMUM 300mm DIAMETER WITH JOINTS CONFORMING TO C.S.A. STANDARD A257.3.			
I. ALL PIPE BEDDING MUST CONFORM TO OPSD, MAXIMUM COVER TABLE. NO FLEXIBLE PIPE SEWERS WILL BE INSTALLED WITH A DEPTH OF COVER GREATER THAN 6 METRES UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF ENGINEERING.			
J. ALL PIPE HANDLING INSTALLATIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURES INSTALLATION GUIDES AND THE O.C.P.A. OR UNIBELL GUIDELINES.			
K. SUMP PUMP DISCHARGE PIPING IN BOULEVARD: IN THE EVENT OF INEFFECTIVE SUMP PUMP ACTIVITY, A 150mm DIAMETER PIPE DR–28 SEWER MAY BE INSTALLED, WHEN SO DIRECTED BY THE DIRECTOR OF ENGINEERING, ALONG THE FRONTAGES OF DESIGNATED LOTS, WITH AN OFFSET OF 0.6m FROM SEWER IS TO BE CAPPED AT THE UPSTREAM END AND IS TO OUTLET INTO THE NEAREST CATCHBASIN DOWNSTREAM. DEPTH OF SEWER IS TO BE EQUAL TO SUBGRAIN DEPTH, NOT TO BE DIRECTLY CONNECTED TO FOUNDATION DRAINS.			
CITY OF BARRIE STANDARD			
4. NOTE 'K' – SUMP PUMP DISCHARGE PIPING	B.R. 2003.01.07	APPR'D: R.G.N.	DATE: 92.05.15
3. NOTE 'I' & 'C' – "DIRECTOR OF ENGINEERING"	B.R. 2002.10.28		
2. NOTE 'C' OPSD NUMBER REVISION	K.C. 2000.03.16	DRAWN: L.A.J.	SCALE: N.T.S.
1. NOTE 'D' CHANGED	K.C. 98.03.30		
NO.	REVISION	APR'D	DATE
BSD-N5			

GENERAL NOTES			
1. DRAWINGS			
A. ALL DRAWINGS SHALL BE PRODUCED IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARDS & SYMBOLS FOR PLAN & PROFILE DRAWINGS, GENERAL SERVICE PLANS AND LOT GRADING PLANS.			
2. MEASUREMENTS			
A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.			
3. GENERAL			
A. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARD DRAWINGS (BSD) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).			
B. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY CITY OF BARRIE STANDARD DRAWINGS (BSD) AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).			
C. 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.			
D. A ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE ROADS AND PARKS OPERATIONS BRANCH PRIOR TO THE COMMENCEMENT OF WORK WITHIN ANY CITY RIGHT-OF-WAY.			
E. A SITE ALTERATION PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY EARTH WORKS ON THE SITE.			
F. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.			
G. GRANULAR MATERIAL , USED FOR BACKFILL , SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.			
H. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT.			
I. 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 CITY ENGINEERING DEPARTMENT.			
CITY OF BARRIE STANDARD			
3. NOTE: 3.E. REVISED & 3.I. ADDED	J.S. 05.01.10	APPR'D: R.G.N.	DATE: 92.05.15
2. 3.D. – "ENGINEERING DEPARTMENT"	B.R. 02.10.28	DRAWN: L.A.J.	SCALE: N.T.S.
1. 3.E. TOPSOIL PERMIT	01.12.06		
NO.	REVISION	APR'D	DATE
BSD-N6			

GENERAL NOTES - WATERMAIN	
1. CONTRACTORS SHALL INFORM THE CITY OF BARRIE WATER OPERATIONS DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR INTENTIONS TO PERFORM WORK ON WATER INFRASTRUCTURE.	
2. OPERATION OF HYDRANTS AND VALVES ON THE POTABLE WATER SYSTEM BY OTHER THAN QUALIFIED WATER OPERATIONS STAFF IS PROHIBITED BY CURRENT BY-LAW CITY SERVICE FEES ARE THE CURRENT FEES BY-LAW. THE CITY'S WATER OPERATIONS STAFF WILL SWAL, PRESSURE TEST, CHLORINATE AND FLUSH ALL NEW WATERMANS.	
3. MINIMUM COVER OVER WATERMAIN SHALL BE 1.7m. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAIN AND SEWERS SHALL BE 2.5m. WHERE WATERMAIN CONFLICTS WITH SEWER PIPES, DEFLECT WATERMAIN HORIZONTALLY OR VERTICALLY WHILE PROVIDING A MINIMUM OF 0.5m CLEARANCE BETWEEN WATERMAIN AND SEWERS. MAINTAIN MINIMUM DEPTH OF COVER AT ALL TIMES.	
4. WATERMAIN SHALL BE INSTALLED IN BEDDING AS PER OPSD 802.010 (GRANULAR 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD 802.030 OR 802.031 CLASS B (GRANULAR 'A' BEDDING MATERIAL, GRANULAR 'A' OR SELECT NATIVE COVER MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF WATER OPERATIONS. ALTERNATIVE EMBEDMENT MATERIAL - SAND MEETING GRADATION REQUIREMENTS OF OPSD 1004.017 COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY IS PERMISSIBLE IF VARIERE NOTED IN STANDARD DETAILS. GEOTECHNICAL CERTIFICATION OF MATERIAL AND CONNECTION TESTING MUST BE PROVIDED EVERY 10 METRES. THE COMPACTOR TESTING MUST INCLUDE THE ENTIRE EMBEDMENT ENVELOPE (WRAUCHES, BEDDING, TOP OF PIPE AND COVER).	
5. COPPER WATER MAINS AND SERVICES 25mm TO 50mm IN DIAMETER SHALL BE EMBEDDED IN SAND 100mm ABOVE AND BELOW TO CONFORM TO OPSD 1004.017.	
6. RESTRAINING WALLS BE REQUIRED ON ALL HYDRANTS, THRUST BLOCKS, AS PER OPSD 1103.010 AND 103.020. RESTRAINING DEVICES MAY BE REQUIRED IN ADDITION TO STANDARD CONCRETE THRUST BLOCKING WHERE SOIL CONDITIONS WARRANT AT THE CITY'S DISCRETION.	
7. NEW WATERMANS TO BE PVC DR19 CL150 MINIMUM, DUCTILE IRON CL62 AS PER THE APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER SYSTEMS LIST.	
8. TRACING WIRE SHALL BE #12 AWG HIGH STRENGTH COPPER CLAD #16-050 AND SHALL BE INSTALLED ON THE TOTAL LENGTH OF ALL WATERMAIN AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO FLANGE BOLT. ALL SPLICES TO UTILIZE CONNECTORS AS PER THE APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER SYSTEMS LIST.	
9. ALL WATER SERVICES SHALL BE MINIMUM 25mm TYPE 'K' COPPER OR 32mm CROSS-LINKED POLYETHYLENE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF WATER OPERATIONS. WATER SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO PVC WATERMAIN.	
10. SERVICE TAPPIINGS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0m AND A MINIMUM OF 0.6m FROM JOINTS, (ENDS OF PIPE)	
11. RISER PIPES ARE TO BE INSTALLED AS PER BSD-510 AND REMOVED AS DIRECTED. SNABBING SCHEDULE TO BE SUPPLIED BY A WATER OPERATIONS FIELD REPRESENTATIVE. ALL RISERS ARE TO BE RESTRAINED ON THRUST BLOCKED.	
12. ALL NEW CURB STOPS AND BOXES TO BE LOCATED AT PROPERTY LINE AND OUT OF DRIVEWAYS AND SIDEWALKS.	
	GENERAL NOTES - WATERMAIN
REV No. 2	DATE: MAY 2015 SCALE: N.T.S.
APPROVED DATE: <i>May 24/15</i> DIRECTOR OF ENGINEERING	
BSD-500	

EROSION CONTROL NOTES

1. ALL TEMPORARY SILT CONTROL AND EROSION PROTECTION DEVICES (I.E. SILT FENCING, DRAINAGE SWALES, ROCK CHECK DAMS, SEDIMENT BASIN, GRAVEL ACCESS PAD, ETC.) SHALL BE CONSTRUCTED PRIOR TO COMMENCEMENT OF SITE WORKS 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 CITY ENGINEERING DEPARTMENT.
2. ALL SEDIMENTATION CONTROL MEASURES ARE TO BE INSPECTED REGULARLY (MINIMUM WEEKLY), AS WELL AS AFTER EVERY RAINFALL EVENT AND ANY DAMAGED SILT CONTROL AND EROSION PROTECTION DEVICES SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES.
4. AREAS WITHOUT STABLE GROUND COVER SHALL BE PROTECTED WITH SILTATION CONTROL FENCING, STRAW MULCH, ETC., AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BECOME ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED BY SEEDING. (IF SEEDING IS APPROPRIATE DURING CURRENT SEASON).
7. ALL SITE DRAINAGE IS TO BE DIRECTED TO THE TEMPORARY SEDIMENT BASIN(S) AND OTHER CHECK DAMS VIA SHEET DRAINAGE, BERMS OR SWALES (AS NECESSARY) TO FACILITATE THE COMPLETION OF GRADING WORKS. THE CONTRACTOR SHALL CONSTRUCT ANY ADDITIONAL SWALES OR BERMS THAT MAY BE NECESSARY TO DIRECT RUN-OFF TO THE SEDIMENT BASINS.
8. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE FROM PROPOSED CONSTRUCTION ACCESS VIA THE GRAVEL ACCESS PAD.
9. ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30m FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE INSPECTOR.
10. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 805; CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, AS WELL AS APPLICABLE MUNICIPAL STANDARDS AND/OR APPROVAL AGENCY STANDARDS.
11. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES, SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL BY THE CONTRACT ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE APPLICABLE APPROVAL AGENCIES.

GRADING NOTES

1. ALL DISTURBED AREAS TO BE RESTORED TO EXISTING CONDITIONS OR BETTER WITH A MIN. 200mm DEPTH OF TOPSOIL AND SOD IMMEDIATELY FOLLOWING COMPLETION OF GRADING.
2. ALL SLOPES SHALL BE RESTORED WITH A MIN. 200mm DEPTH OF TOPSOIL AND SOD IMMEDIATELY FOLLOWING COMPLETION OF GRADING.
3. ALL SLOPES ALONG BERMS AND DITCHES TO BE MAXIMUM SLOPES OF 3:1.

WATER SERVICING NOTES, AS REQUIRED BY THE CITY OF BARRIE
GENERAL

1. ALL REQUIRED PERMITS SHALL BE IN PLACE PRIOR TO INSTALLATION OF WATERMAIN AND SERVICES.
2. A ROAD OCCUPANCY PERMIT IS REQUIRED, AND CAN BE OBTAINED AT THE OPERATION CENTRE.
3. MINIMUM COVER OVER WATER MAIN TO BE 1.7m. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SEWER TO BE 2.5m. WHERE WATER MAIN CONFLICTS WITH SEWER PIPE, DEFLECT WATER MAIN HORIZONTALLY OR VERTICALLY WHILE PROVIDING A MINIMUM OF 0.5m CLEARANCE BETWEEN WATER MAIN AND SEWERS. MAINTAIN MINIMUM DEPTH OF COVER AT ALL TIMES.
4. ALL BENDS AND TEES SHALL BE RESTRAINED IN ADDITION TO THRUST BLOCKS.
5. ALL DOMESTIC AND FIRE WATER SERVICES WILL REQUIRE BACKFLOW PREVENTION AS PER CITY OF BARRIE BYLAW 2010–102.
6. SERVICES INSTALLED UNDER FLOORS SHALL BE FULLY RESTRAINED.
7. HYDRANTS SHALL BE INSTALLED AS PER BSD–507. ON SITE HYDRANTS SHALL BE CONSIDERED PRIVATE (PAINTED RED), AND ARE TO BE MAINTAINED BY THE OWNER.
8. ALL FIRE SERVICES SHALL CONFORM TO THE MOST CURRENT BUILDING CODE AND NATIONAL FIRE PROTECTION ACT. THE REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/OWNERS. INFORMATION MAY BE OBTAINED FROM THE INSURANCE UNDERWRITER, CITY OF BARRIE PLANNING AND DEVELOPMENT AND THE CITY OF BARRIE FIRE DEPARTMENT.
9. ALL NEW CURB STOPS AND BOXES TO BE LOCATED OUT OF DRIVEWAYS AND SIDEWALKS.
10. COPPER WATER SERVICES 19mm TO 50mm IN DIAMETER SHALL BE EMBEDDED IN SAND 100mm ABOVE AND BELOW.
11. ALL COPPER WATER SERVICE FITTINGS SHALL BE COMPRESSION STYLE. IF A CONDITION ARISES WHERE A COPPER SERVICE MUST BE JOINED UNDER THE FLOOR, THE COPPER SHALL BE JOINTED BY SILVER SOLDER CONNECTION ONLY.
12. CONTRACTOR SHALL INFORM THE CITY OF BARRIE OPERATIONS DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR INTENTIONS TO WORK.
13. THE CITY WILL FLUSH THE NEW SERVICE AND CONTRACTOR WILL PERFORM PRESSURE TEST WITNESSED BY THE WATER FIELD COORDINATOR.
14. WATER WILL NOT BE AVAILABLE UNTIL SERVICES HAVE BEEN SAMPLED AND PASSES FOR BACTERIOLOGICAL COMPLIANCE, A CHECK VALVE SHALL BE INSTALLED FOR TEMPORARY WATER SERVICE.
15. REFER TO DRAWING WM–1, FOR WATERMAIN TESTING AND DISINFECTION NOTES.
16. A FLAT RATE CONNECTION FEE (\$2600.00) WILL BE REQUIRED FOR EACH OF THE 300mm WATER SERVICE CONNECTIONS.
17. AN ANNUAL CHARGE FOR EACH PRIVATE CONNECTION MADE TO THE MUNICIPAL WATER DISTRIBUTION SYSTEM WILL APPLY.
18. AN ANNUAL CHARGE FOR EACH PRIVATE FIRE HYDRANT SUPPLIED WITH WATER FROM THE MUNICIPAL WATER DISTRIBUTION SYSTEM WILL APPLY.
19. WATER SERVICES TO BE MECHANICALLY RESTRAINED. WATERMAIN TO BE MECHANICALLY RESTRAINED IN AREAS OF FILL.

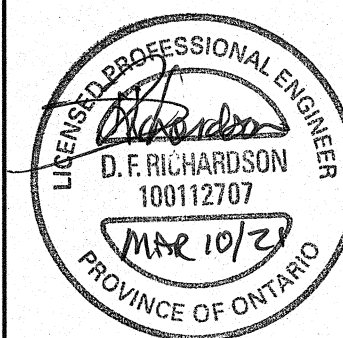
100mm DOMESTIC AND 150mm FIRE SERVICES - BUILDINGS H1, H2, H3, H4, H5 AND H6

1. DOMESTIC AND FIRE SERVICE VALVES SHALL BE LOCATED IN THE BOULEVARD, UNLESS OTHERWISE NOTED.
2. DOMESTIC AND FIRE SERVICES SHALL BE MECHANICALLY RESTRAINED FROM THE TEE TO THE BUILDINGS.
3. DOMESTIC AND FIRE SERVICE RISERS ENTERING EACH BUILDING SHALL BE INSTALLED AS PER BSD–505.
4. DOMESTIC AND FIRE SERVICE TO BE HAND SWABBED AND TO BE PLACED IN SERVICE AND REMOVED FROM RISERS.
5. THE 100mm DOMESTIC WATER SERVICE WILL REQUIRE A 100mm WATER METER (SUPPLIED AND INSTALLED BY THE OWNER) COMPLETE WITH A BYPASS ASSEMBLY AS PER BSD–533 AND SHALL BE LOCATED IN AN APPROPRIATELY SIZED MECHANICAL ROOM.
6. BACKFLOW PREVENTION SHALL BE PROVIDED ON ALL DOMESTIC AND FIRE SERVICES AS PER CITY OF BARRIE BYLAW 2017–121.

ENGINEERING NOTES

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO THE WORKS.

1. ALL MEASUREMENTS FOR THIS PROJECT ARE IN METERS, EXCEPT PIPE DIAMETERS WHICH IS IN MILLIMETRES, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
2. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, RULES AND REGULATIONS, TO MEET THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION AND TO MEET THE DESIGN INTENT.
3. ALL WORK AND MATERIALS WITHIN THE PROPERTY BOUNDARIES SHALL CONFORM TO THE LATEST EDITION OF THE ONTARIO BUILDING CODE, WHERE THERE IS A CONFLICT BETWEEN THE FOLLOWING NOTES AND SPECIFICATIONS AND THE ONTARIO BUILDING CODE, THE DECISION OF THE CHIEF BUILDING OFFICIAL WILL GOVERN.
4. INFORMATION ON EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY UTILITY LOCATES PRIOR TO COMMENCING CONSTRUCTION.
5. ALL CORRUGATED STEEL PIPE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND AS PER O.P.S.D. 801.010, SQUARE ENDS AND O.P.S.D. 802.040, TYPE I. ALL CSP TO BE 2.0mm THICKNESS GAUGE.
6. CONTRACTOR SHALL INFORM THE SITE (PROJECT) MANAGER A MINIMUM 24 HOURS IN ADVANCE OF HIS INTENTION TO COMMENCE WORK. CONTRACTOR SHALL AT ALL TIMES, PROVIDE SUITABLE BARRICADES AND FLAGGING PROTECTION IN ACCORDANCE WITH THE MINISTRY OF LABOUR PRACTICES, AND OCCUPATIONAL HEALTH AND SAFETY ACT.
7. THESE NOTES ARE GENERAL IN NATURE; FOR SPECIFIC DETAILS REFER TO CITY OF BARRIE AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
8. SEWER PIPE MATERIAL (IF APPLICABLE): –POLYVINYL CHLORIDE PIPE SHALL CONFORM TO CSA–B–182.1 AND CSA–B–182.2 WITH BELL AND SPIGOT RUBBER GASKETS JOINTS COMPLYING WITH CSA–B182.2.3. SANITARY PIPE SHALL BE SDR–35 AND ALL SANITARY SERVICE LATERALS TO BE SDR–28.
9. SEWER BEDDING WILL CONFORM TO O.P.S.D. 802.030 FOR RIGID PIPE INSTALLATION AND O.P.S.D. 802.010 FOR FLEXIBLE PIPE INSTALLATION. NATIVE MATERIAL USED FOR BACKFILL SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
10. ALL TRENCHES ARE TO BE BACKFILLED WITH NATIVE MATERIAL AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY OR AS PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. IN ADDITION, ALL STRUCTURES WITHIN TRAVELLED PORTION OF THE ROAD & PARKING AREAS SHALL HAVE NATIVE 4:1 FROST TAPERS FROM FROST LINE TO SUBGRADE.
11. MAINTENANCE HOLES –STEPS SHALL BE ALUMINUM ALLOY O.P.S.D. 405.010 SOLID CIRCULAR ALUMINUM OR APPROVED EQUAL. –FRAMES AND COVERS SHALL BE DOMINION WHEEL FOUNDRIES DESIGN STD. 579 OR APPROVED EQUAL AND SELF LEVELLING FRAME AND GRATE/COVER SHALL BE USED FOR ALL NEW MAINTENANCE HOLES WITHIN ASPHALT ROADWAYS AS PER BSD–41 (OCTOBER 2017) O.P.S.D. 401.010 TYPE 'A'. –SANITARY MAINTENANCE HOLES ARE TO HAVE CORE AND SEAL GASKETS ON ALL PIPE CONNECTIONS. 1200 DIAMETER MAINTENANCE HOLES – O.P.S.D. 701.010 –MAINTENANCE HOLE BENCHING SHALL EXTEND TO PIPE OVERTY AND SHALL BE IN ACCORDANCE WITH DETAILS SHOWN AS PER OPSD 1004.010 –SAFETY PLATFORMS SHALL BE AS PER OPSD 404.020.
- 12.) TEMPORARY ACCESS ROAD MAKE–UP: (REFER TO GEOTECHNICAL INVESTIGATION REPORT) –70mm HL8 BINDER ASPHALT –150mm OPSS GRANULAR "A" –400mm OPSS GRANULAR "B" INTERNAL ROAD & PARKING MAKE–UP: –40mm HL3 BINDER ASPHALT –70mm HL8 BINDER ASPHALT –150mm OPSS GRANULAR "A" –450mm OPSS GRANULAR "B"
- 13.) BARRIER CURB TO COMPLY WITH OPSD 600.110.
- 14.) ALL PROPOSED CATCHBASIN AND DOUBLE CATCHBASIN STRUCTURES TO HAVE MIN. 900mm SUMP DEPTH PER OPSD 705.010 AND OPSD 705.020 RESPECTIVELY. ALL CATCHBASIN STRUCTURES TO BE FITTED WITH CATCHBASIN SHIELDS OR APPROVED EQUIVALENT. DETAIL PROVIDED ON DWG. NO. DET–1.

PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE

GENERAL NOTES



DESIGN	JJH	SCALE: N/A	DATE	JULY 2017
DRAWN	JJH	PROJECT	DWG. NO	
CHECKED	DR	PRA–17021	N–1	

FINAL APPROVED PLAN
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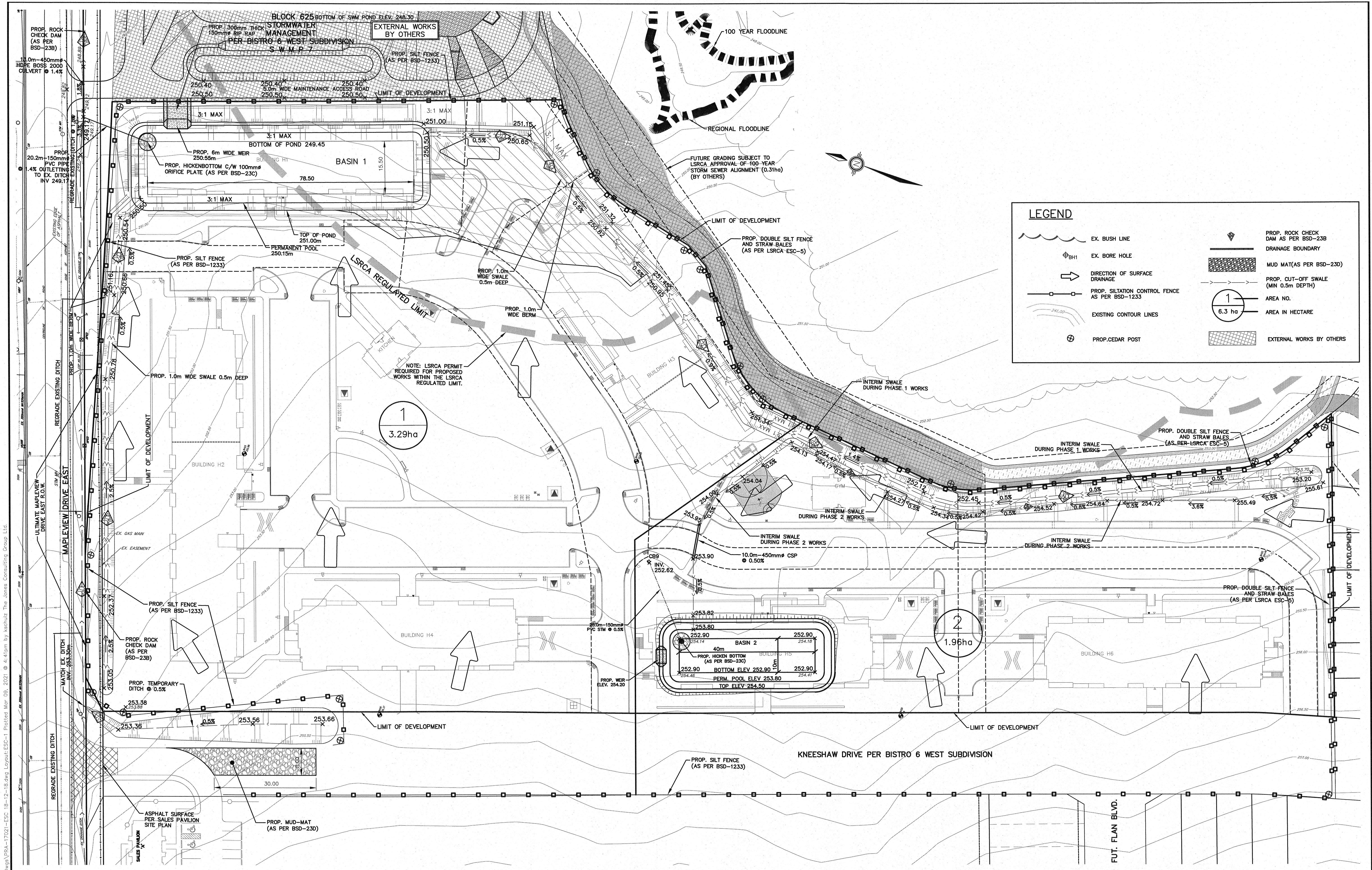
BENCHMARK:
BENCHMARK NO. 03108805404 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LOVELL CREEK, 0.85M EAST OF HURONIA ROAD, TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.45M NORTH OF CENTRELINE OF ROAD, 282M WEST OF THE NORTHEAST END OF BRIDGE, 15mm TOP OF CORNER, N4910768.589 E307284.100 ELEV 241.861

BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL – 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHWEST OF THE FLAGPOLE BASE, N4910769.152 ELEV 230.508

BENCHMARK NO. 03120060054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 1km EAST OF HURONIA ROAD, N4910876.122 E307601.062 ELEV 248.996

BENCHMARK NO. 03120110013 LOCATED ON LOGCHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.00m WEST OF 'D' YONGE STREET AND HURONIA ROAD INTERSECTION N49009870.257 E308753.590 ELEV 252.807

7	SITE PLAN AMENDMENT	21–03–08	DR
6	FIFTH SUBMISSION	19–11–13	DR
5	FOURTH SUBMISSION	19–08–30	DR
4	THIRD SUBMISSION	19–05–24	DR
3	SECOND SUBMISSION	19–01–11	DR
NO.	REVISIONS	DATE	INITIAL

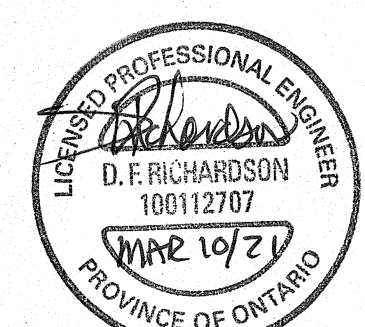


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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:
BENCHMARK NO. 01019905454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE
OVER LOVER'S CREEK, 0.60KM EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY
IN THE NORTH FACE, 5.40M NORTH OF CENTRELINE OF ROAD, 282M WEST OF THE
NORTHEAST END OF BRIDGE, 19CM TOP OF COPING. N4910788.889 E807264.100
ELEV 241.681
BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 190 ESTHER
DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH
FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON
THE SOUTHWEST OF THE FLAGPOLE BASE. N4911010 E807799 ELEV 230.508
BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST
APPROXIMATELY 110M EAST OF HURONIA ROAD. N491087122 E807610.052 ELEV 248.998
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE
BOULEVARD, APPROXIMATELY 1.02KM WEST OF THE YONGE STREET AND HURONIA ROAD
INTERSECTION. N4900870.287 E809733.500 ELEV 252.807

6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR
NO.	REVISIONS	DATE	INITIAL



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
EROSION AND SEDIMENT
CONTROL PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

DESIGN JJH	SCALE: 1:500	DATE JULY 2017
DRAWN JJH	PROJECT PRA-17021	DWG. NO DWG. NO
CHECKED DR		ESC-1

EROSION CONTROL NOTES

1. THE ACCOMPANYING PLANS SET OUT THE MEASURES THAT WILL BE TAKEN BY THE DEVELOPER AND ITS CONTRACTORS TO CONTROL DOWNSTREAM SEDIMENT TO THE LOWEST LEVEL PRACTICALLY ACHIEVABLE. THE CONDITIONS AND TECHNIQUES SET OUT ARE TO BE FOLLOWED UNLESS APPROVED OTHERWISE BY THE CONTRACT ADMINISTRATOR, CONSERVATION AUTHORITY AND/OR MUNICIPALITY.
2. ALL TEMPORARY SILT CONTROL AND EROSION PROTECTION DEVICES (I.E. SILT FENCING, DRAINAGE SWALES, ROCK CHECK DAMS, SEDIMENT BASINS, GRAVEL ACCESS PADS, ETC.) SHALL BE CONSTRUCTED PRIOR TO COMMENCEMENT OF SITE WORKS 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 CITY ENGINEERING DEPARTMENT.
3. ALL SEDIMENTATION CONTROL MEASURES ARE TO BE INSPECTED REGULARLY (MINIMUM WEEKLY), AS WELL AS AFTER EVERY RAINFALL EVENT AND ANY DAMAGED SILT CONTROL AND EROSION PROTECTION DEVICES SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR.
4. THE CONTRACTOR MUST USE MATERIALS, CONSTRUCTION PRACTICES, AND MITIGATION TECHNIQUES IN ORDER TO PREVENT THE UNAUTHORIZED HARMFUL ALTERATION, DISRUPTION OR DESTRUCTION OF VEGETATION OR THE IMPAIRMENT OF WATER QUALITY.
5. THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES.
6. AREAS WITHOUT STABLE GROUND COVER SHALL BE PROTECTED WITH SILTATION CONTROL, FENCING, STRAW MULCH, ETC., AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BECOME ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
7. ALL EXPOSED SOIL MUST BE GRADED TO A STABLE SLOPE AND TREATED AS QUICKLY AS POSSIBLE TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE SITE. ALL AREA STRIPPED OF VEGETATIVE COVER FOR LONGER THAN 30 DAYS SHALL BE TOPSOILED AND SEEDED AT THE DIRECTION OF THE ENGINEER.
8. ALL SITE DRAINAGE TO BE DIRECTED TO THE TEMPORARY SEDIMENT BASINS AND OTHER CHECK DAMS VIA SHEET DRAINAGE, BERMS OR SWALES (AS NECESSARY) TO FACILITATE THE COMPLETION OF GRADING WORKS. THE CONTRACTOR SHALL CONSTRUCT ANY ADDITIONAL SWALES OR BERMS THAT MAY BE NECESSARY TO DIRECT RUN-OFF IN A CONTROLLED MANNER OF SUITABLE QUALITY.
9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE FROM PROPOSED CONSTRUCTION ACCESS VIA THE GRAVEL ACCESS PAD.
10. ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30m FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE INSPECTOR.
11. TECHNIQUES FOR EROSION AND SEDIMENT CONTROLS ARE TO ADHERE TO ACCEPTED ENGINEERING PRACTICE AND MUNICIPAL, CONSERVATION AUTHORITY AND ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 805; CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, AS WELL AS APPLICABLE MUNICIPAL STANDARDS AND/OR APPROVAL AGENCY STANDARDS.
12. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES, SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL BY THE CONTRACT ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE APPLICABLE APPROVAL AGENCIES.

CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS PROVIDED FOR CONTRACTOR GUIDANCE:

1. CONSTRUCT ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, TREE PRESERVATION FENCE, MUD MATS, CHECK DAMS, SWALES/BERMS, ETC.
2. CONSTRUCT TEMPORARY SEDIMENT BASINS. STRIPPING AND REMOVAL OF TOPSOIL. TOPSOIL TO BE REMOVED FROM SITE.
3. PROCEED WITH EARTH EXCAVATION AND PRE-GRADING. PROCEED WITH SEEDING OF RESTORATION OF ALL DISTURBED AREAS AS DIRECTED BY ENGINEER. ALL AREAS STRIPPED OF VEGETATIVE COVER FOR LONGER THAN 15 DAYS SHALL BE HYDROSEED AT THE DIRECTION OF THE ENGINEER. HYDROSEED WITH FIBRETAC AT 100KG/HA. HYDROSEED MIXTURE OF 48% ANNUAL RYE GRASS, 48% FALL RYE, 4% RED CLOVER WILL NEED TO BE APPLIED TO THE SIDE SLOPES OF THE SEDIMENT CONTROL POND AND ANY EXPOSED AREAS FOLLOWING TOPSOIL STRIPPING.
4. PROCEED WITH SITE WORKS I.E. SITE SERVICING AND SURFACE WORKS INSTALLATIONS. COMPLETE TEMPORARY CONNECTIONS FROM SEDIMENT BASINS TO INTERNAL STORM SEWERS.
2. RESTORATION OF DISTURBED AREAS.
3. REMOVAL OF SEDIMENT AND EROSION CONTROLS.

NOTE SILTATION AND EROSION CONTROL MEASURES ARE TO BE MONITORED AND MAINTAINED THROUGHOUT CONSTRUCTION AND NECESSARY REPAIRS TO BE PROMPTLY COMPLETED AS REQUIRED.

CONTINGENCY PLAN

IF UNFORESEEN EVENTS CAUSE THE STRATEGIES SET OUT IN THIS PLAN TO BE INSUFFICIENT OR INAPPROPRIATE TO MEET THE OBJECTIVE, THE CONTRACTOR IS EXPECTED TO RESPOND IN A TIMELY MANNER WITH ALL REASONABLE MEASURES CONSISTENT WITH SAFETY, TO PREVENT, COUNTERACT OR REMEDY DOWNSTREAM SEDIMENTATION AND EROSION.

IF A SPILL OCCURS IT SHALL BE REPORTED TO THE MINISTRY OF ENVIRONMENT & CLIMATE CHANGE & THE MINISTRY OF NATURAL RESOURCES AND FORESTRY. THE ON CALL CITY OF BARRIE ENVIRONMENTAL OFFICER SHOULD ALSO BE NOTIFIED VIA PAGER (705) 720-5056

IF APPROVAL AGENCIES DETERMINE THAT LONG TERM DAMAGE TO THE NATURAL ENVIRONMENT HAS OCCURRED DUE TO FAILURE OF THIS PLAN TO CONTROL SEDIMENTS, A RESTORATION PLAN WILL BE DEVELOPED BY THE CONTRACTOR IN CONSULTATION WITH AND APPROVAL FROM THE APPROPRIATE AGENCIES FOR IMPLEMENTATION BY THE CONTRACTOR.

GENERAL NOTES

1. DRAWINGS

A. ALL DRAWINGS SHALL BE PRODUCED IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARDS & SYMBOLS FOR PLAN & PROFILE DRAWINGS, GENERAL SERVICE PLANS AND LOT GRADING PLANS.

2. MEASUREMENTS

A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.

3. GENERAL

A. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARD DRAWINGS (BSD) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

B. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY CITY OF BARRIE STANDARD DRAWINGS (BSD) AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

C. 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.

D. A ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE ROADS AND PARKS OPERATIONS BRANCH PRIOR TO THE COMMENCEMENT OF WORK WITHIN ANY CITY RIGHT-OF-WAY.

E. A SITE ALTERATION PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY EARTH WORKS ON THE SITE.

F. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

G. GRANULAR MATERIAL, USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.

H. ALL DISTURBED AREAS ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT.

I. 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 CITY ENGINEERING DEPARTMENT.

CITY OF BARRIE STANDARD		3	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
GENERAL NOTES		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-N6			

SILTATION CONTROL FENCING

1. THIS STANDARD IS TO BE IN ACCORDANCE WITH THE SITE ALTERATION BY-LAW FOR THE DESIGN AND MAINTENANCE OF EROSION CONTROL MEASURES AND IS TO BE ADMINISTERED ACCORDINGLY.

2. SILTATION CONTROL FENCE SHALL BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.

3. SILTATION CONTROL FENCE TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 CHART F4-2C: TOPOGRAPHIC FACTORIAL RAINFALL ON SLOPE LENGTH AND GRADIENT.

4. SILTATION CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TIED INTO THE SOIL, WHICH BE EITHER STAPLE BANDING OR TRENCHING METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% S.P.D.

5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

6. THE FENCE SHALL BE USED FOR SEDIMENT CONTROL PURPOSES, AND THAT THE SUBJECT AREA IS SUBJECT TO FLASH FLOODING.

7. THE BARRIERS ARE TO BE CONSTRUCTED ON THE BASIS OF A MAX. LENGTH TO WORK RATIO OF 4 TO 1.

8. APPROPRIATE POSTING AND LAMING COUPLING SHOULD BE MAINTAINED TO CONTROL MOSQUITO BREEDING AS DIRECTED BY MEDICAL OFFICER OF HEALTH.

CITY OF BARRIE STANDARD		1	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
SILTATION CONTROL FENCING		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-N6			

TOPSOIL OR SPOIL PILE SILTATION CONTROL

1. THIS STANDARD IS TO BE IN ACCORDANCE WITH SCHEDULE "B" OF THE SITE ALTERATION BY-LAW, CODE FOR THE DESIGN AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND IS TO ADMINISTERED ACCORDINGLY.

2. PILES CONTAINING MORE THAN 100 CUBIC METRES OF TOPSOIL OR SPOIL SHALL BE LOCATED A MINIMUM OF 15 METRES FROM A ROADWAY OR CHANNEL.

3. PILE LEFT IN PLACE FOR MORE THAN 60 DAYS SHALL BE STABILIZED WITH A TOP, MULCH, VEGETATIVE COVER OR OTHER ACCEPTABLE MEANS.

CITY OF BARRIE STANDARD		1	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
TOPSOIL OR SPOIL PILE SILTATION CONTROL		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-23E			

TEMPORARY SEDIMENT BASIN AND OUTLET DETAILS

1. THIS STANDARD IS TO BE IN ACCORDANCE WITH SCHEDULE "B" OF THE SITE ALTERATION BY-LAW, CODE FOR THE DESIGN AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND IS TO ADMINISTERED ACCORDINGLY.

2. POND SHALL BE IN ACCORDANCE WITH SCHEDULE "B" OF THE SITE ALTERATION BY-LAW, CODE FOR THE DESIGN AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND IS TO ADMINISTERED ACCORDINGLY.

3. A 100MM HIGH MANNER SHALL BE INSTALLED ALONG THE PERIMETER OF THE BASIN, WITH THE AREA OF THE BASIN TO BE USED FOR SEDIMENT CONTROL PURPOSES, AND THAT THE SUBJECT AREA IS SUBJECT TO FLASH FLOODING.

4. THE BASIN SHALL BE CONSTRUCTED ON THE BASIS OF A MAX. LENGTH TO WORK RATIO OF 4 TO 1.

5. APPROPRIATE POSTING AND LAMING COUPLING SHOULD BE MAINTAINED TO CONTROL MOSQUITO BREEDING AS DIRECTED BY MEDICAL OFFICER OF HEALTH.

CITY OF BARRIE STANDARD		1	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
TEMPORARY SEDIMENT BASIN AND OUTLET DETAILS		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-23C			

TYPICAL GRANULAR EROSION CONTROL DEVICE

1. THIS STANDARD IS TO BE IN ACCORDANCE WITH SCHEDULE "B" OF THE SITE ALTERATION BY-LAW, CODE FOR THE DESIGN AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND IS TO ADMINISTERED ACCORDINGLY.

2. PILES CONTAINING MORE THAN 100 CUBIC METRES OF TOPSOIL OR SPOIL SHALL BE LOCATED A MINIMUM OF 15 METRES FROM A ROADWAY OR CHANNEL.

3. PILE LEFT IN PLACE FOR MORE THAN 60 DAYS SHALL BE STABILIZED WITH A TOP, MULCH, VEGETATIVE COVER OR OTHER ACCEPTABLE MEANS.

CITY OF BARRIE STANDARD		1	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
TYPICAL GRANULAR EROSION CONTROL DEVICE		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-23B			

CONSTRUCTION ENTRANCE MAT

1. THIS STANDARD IS TO BE IN ACCORDANCE WITH SCHEDULE "B" OF THE SITE ALTERATION BY-LAW, CODE FOR THE DESIGN AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND IS TO ADMINISTERED ACCORDINGLY.

2. PURPOSE OF CONSTRUCTION MAT IS TO MINIMIZE TRANSPORTATION OF SEDIMENT, SOIL RESOURCES, AND TO PREVENT EROSION OF THE SUBSTRATE.

3. CONSTRUCTION MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE RESTORATION PROCESS.

4. CONSTRUCTION MATS ARE REQUIRED WHERE PAVED ROADS ARE WITHIN 300m OF THE SITE.

CITY OF BARRIE STANDARD		1	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
CONSTRUCTION ENTRANCE MAT		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-23D			

DOUBLE ROW SEDIMENT CONTROL FENCE

1. THIS STANDARD IS TO BE IN ACCORDANCE WITH SCHEDULE "B" OF THE SITE ALTERATION BY-LAW, CODE FOR THE DESIGN AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND IS TO ADMINISTERED ACCORDINGLY.

2. PURPOSE OF CONSTRUCTION MAT IS TO MINIMIZE TRANSPORTATION OF SEDIMENT, SOIL RESOURCES, AND TO PREVENT EROSION OF THE SUBSTRATE.

3. CONSTRUCTION MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE RESTORATION PROCESS.

4. CONSTRUCTION MATS ARE REQUIRED WHERE PAVED ROADS ARE WITHIN 300m OF THE SITE.

CITY OF BARRIE STANDARD		1	NOTE: S.E. REVISED & S.I. ADDED	J.S.	05.01.10	APPROVED	R.G.N.	DATE	92.05.15
DOUBLE ROW SEDIMENT CONTROL FENCE		1.	S.E. TOPSOIL PERMIT	J.S. <td>01.12.08<td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td></td>	01.12.08 <td>APPROVED<th>R.G.N.</th><th>DATE</th><th>N.T.S.</th></td>	APPROVED <th>R.G.N.</th> <th>DATE</th> <th>N.T.S.</th>	R.G.N.	DATE	N.T.S.
		NO.	REVISION	APPROVED	DATE	BSD-23F			

SITE DATA	
OVERALL SITE AREA	5.25 Ha
EXISTING LAND USE	(VACANT) AGRICULTURAL FIELD
PREDOMINANT SOIL TYPE	SANDY LOAM

BASIN 1	
BOTTOM OF POND ELEVATION	249.45
PERMANENT POOL ELEVATION	250.15
ORIFICE DIAMETER	100mm
OVERFLOW WEIR ELEVATION	250.55
TOP OF POND ELEVATION	251.00
PERMANENT POOL VOLUME	991m³
ACTIVE STORAGE VOLUME	696m³

REQUIRED PERMANENT POOL VOLUME BASED ON 185m³ OF DRAINAGE AREA TO POND	971m³
REQUIRED ACTIVE STORAGE VOLUME BASED ON 125m³ OF DRAINAGE AREA TO POND	657m³
CATCHMENT AREA	5.25 Ha

SITE DATA	
OVERALL SITE AREA	5.25 Ha
EXISTING LAND USE	(VACANT) AGRICULTURAL FIELD
PREDOMINANT SOIL TYPE	SANDY LOAM

BASIN 2	
BOTTOM OF POND ELEVATION	252.90
PERMANENT POOL ELEVATION	253.80
ORIFICE DIAMETER	75mm
OVERFLOW WEIR ELEVATION	254.20
TOP OF POND ELEVATION	254.50
PERMANENT POOL VOLUME	487m³
ACTIVE STORAGE VOLUME	1054m³

REQUIRED PERMANENT POOL VOLUME BASED ON 185m³ OF DRAINAGE AREA TO POND	363m³
REQUIRED ACTIVE STORAGE VOLUME BASED ON 125m³ OF DRAINAGE AREA TO POND	245m³
CATCHMENT AREA	1.96 Ha

FINAL APPROVED PLAN
File: 011-017-2017
Date: August 12, 2021
Barrie
No. of Pages: 1

BENCHMARK:

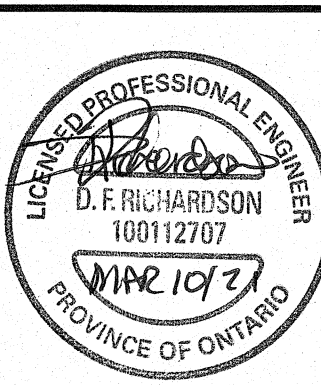
BENCHMARK NO. 01019865454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LOWERS CREEK, 0.65KM EAST OF HURONTARIO ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.6M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF COPING. N4910788.889 E607284.100 ELEV 241.091

BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911610 E607799 ELEV 250.508

BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 1km EAST OF HURONTARIO ROAD. N491078122 E607062 ELEV 248.508

BENCHMARK NO. 03120110003 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONTARIO ROAD INTERSECTION. N49026070.357 E606733.590 ELEV 252.807

6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR
NO.	REVISIONS	DATE	INITIAL



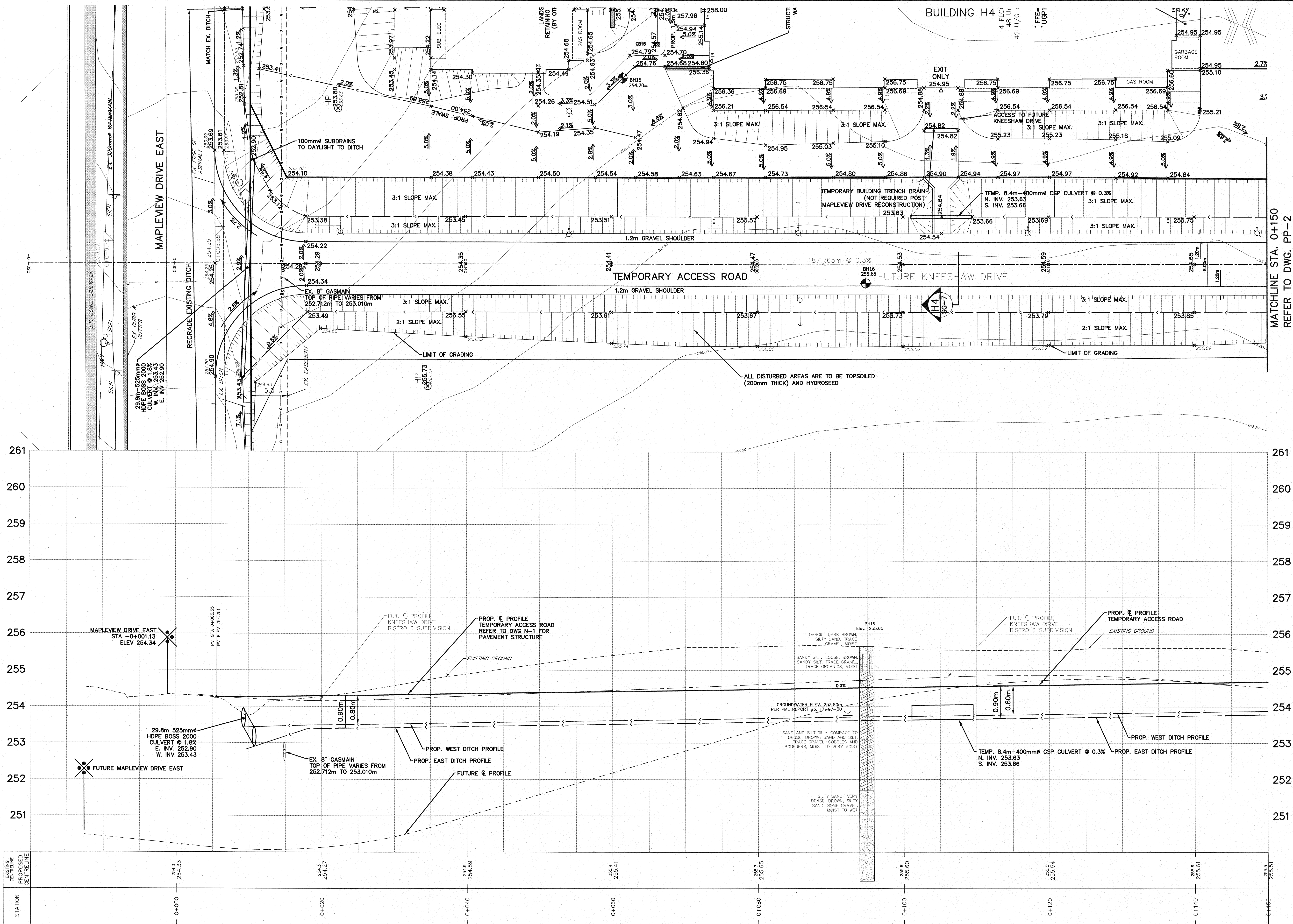
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
EROSION AND SEDIMENT
CONTROL DETAILS



229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2638
F. 705.734.1068

DESIGN	J.H.	SCALE: N/A	DATE	JULY 2017
DRAWN	J.H.	PROJECT	DWG. NO	
CHECKED	DR	PRA-17021	ESC-2	

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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:

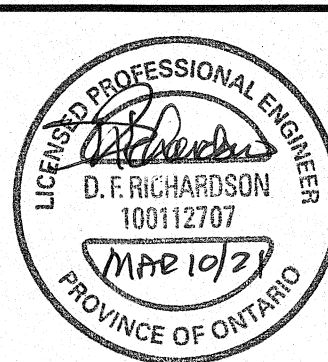
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E. OVER LOWER CREEK, 0.80M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY
IN THE NORTH FACE, 5.6M NORTH OF CENTRELINE OF ROAD, 20CM WEST OF THE
NORTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON
THE SOUTHWEST CORNER OF THE FLAGPOLE BASE. N4910788.889 E507284.100
ELEV 241.961

BENCHMARK NO. 03120030029 MAPVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER
DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH
FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON
THE SOUTHWEST CORNER OF THE FLAGPOLE BASE. N4911610 E507799 ELEV 250.505

BENCHMARK NO. 03120000054 LOCATED ON THE SOUTH LIMIT OF MAPVIEW DRIVE WEST
APPROXIMATELY 11M EAST OF HURONIA ROAD. N4910787.122 E507700.055 ELEV 248.896

BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE
BOULEVARD, APPROXIMATELY 1.02M WEST OF THE YONGE STREET AND HURONIA ROAD
INTERSECTION. N4909870.257 E507753.580 ELEV 250.207

NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR

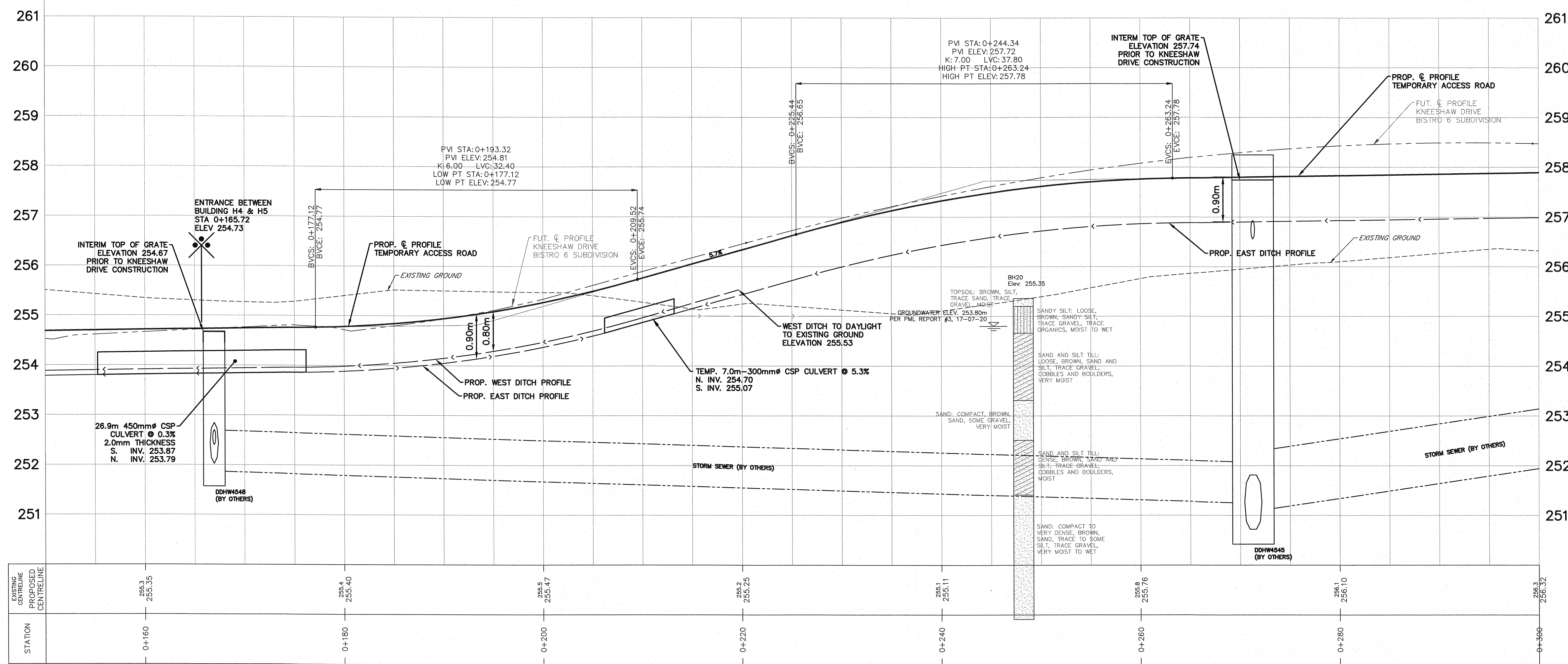
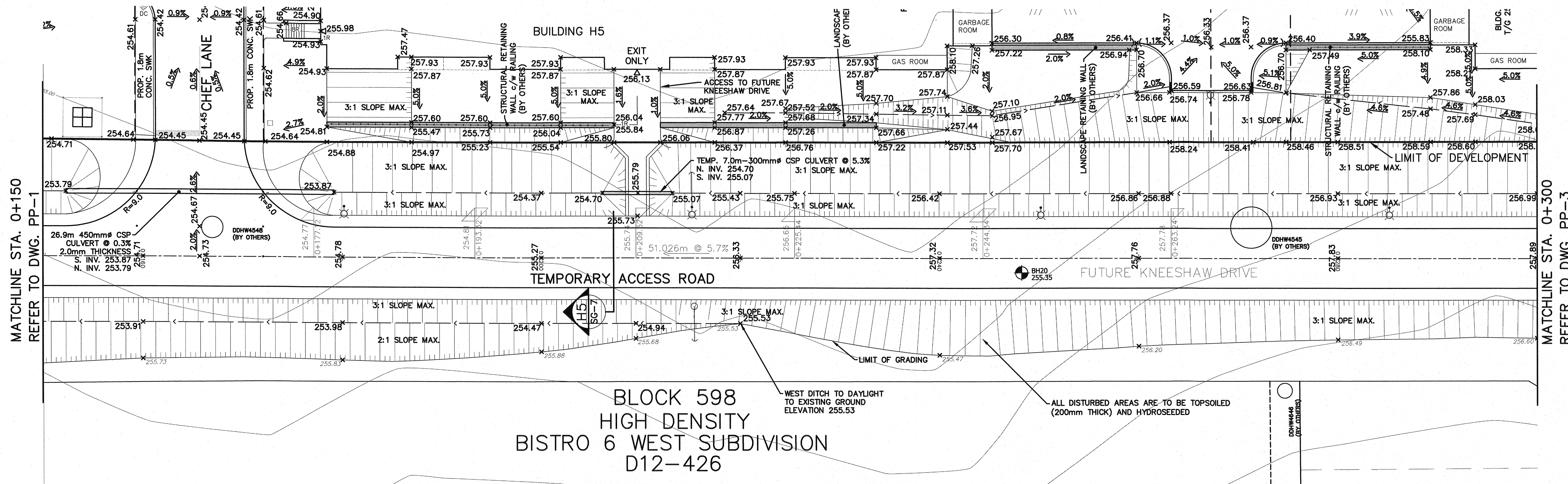
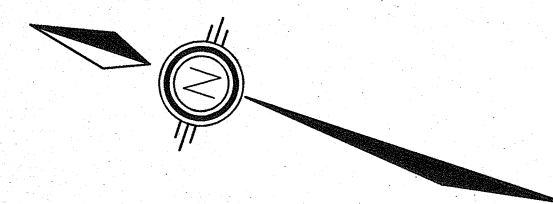


PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
PLAN & PROFILE
TEMPORARY ACCESS ROAD
STA. 0+000 TO 0+150



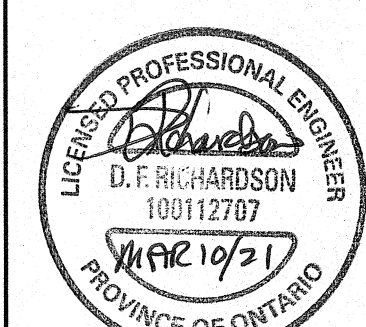
229 Mapview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2558
F. 705.734.1058

DESIGN	JJH	SCALE: H=1:250 V=1:50	DATE	NOVEMBER 2018
DRAWN	JJH	PROJECT	DWG. NO.	
CHECKED	DR	PRA-17021	PP-1	



FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

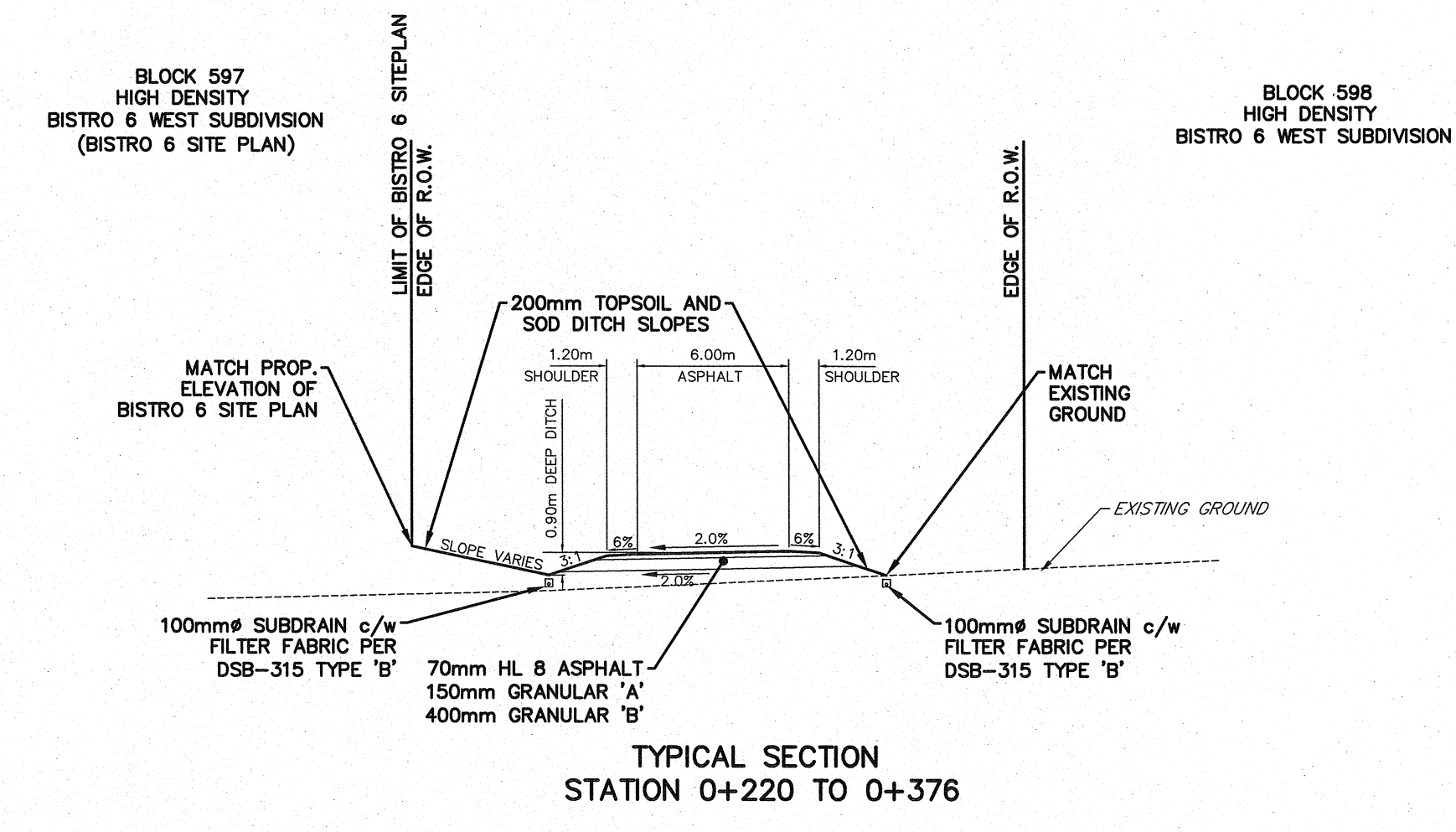
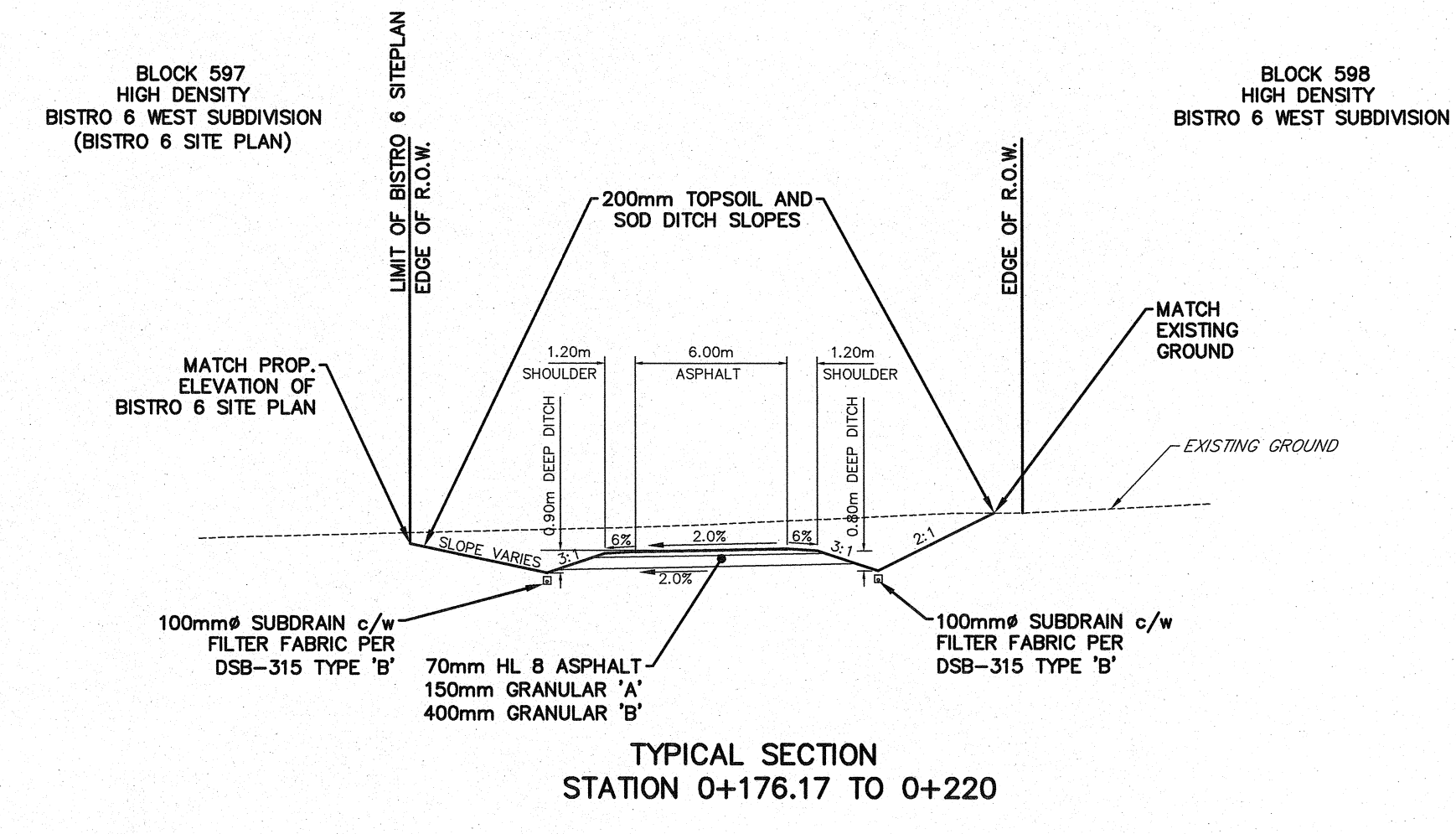
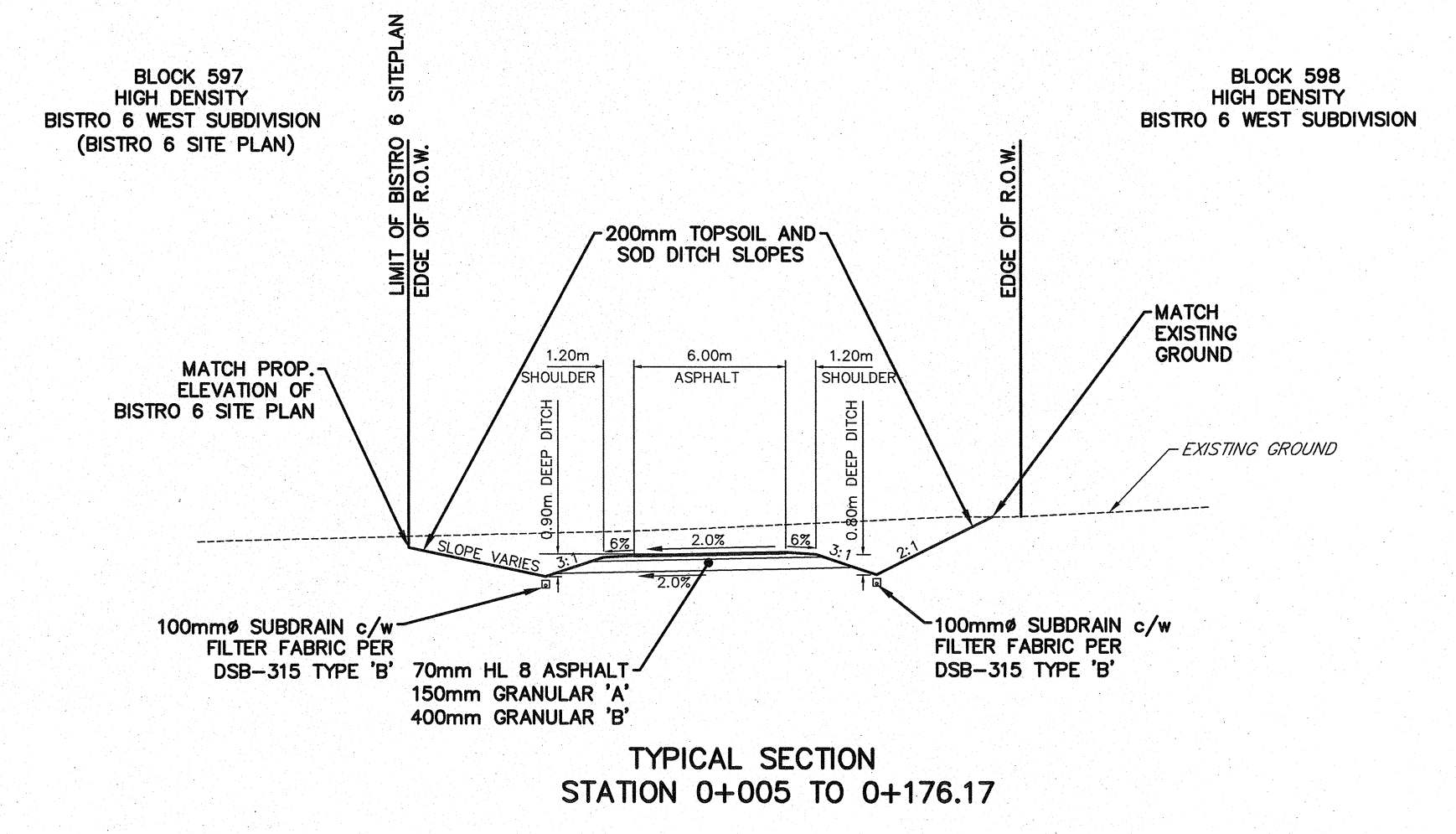
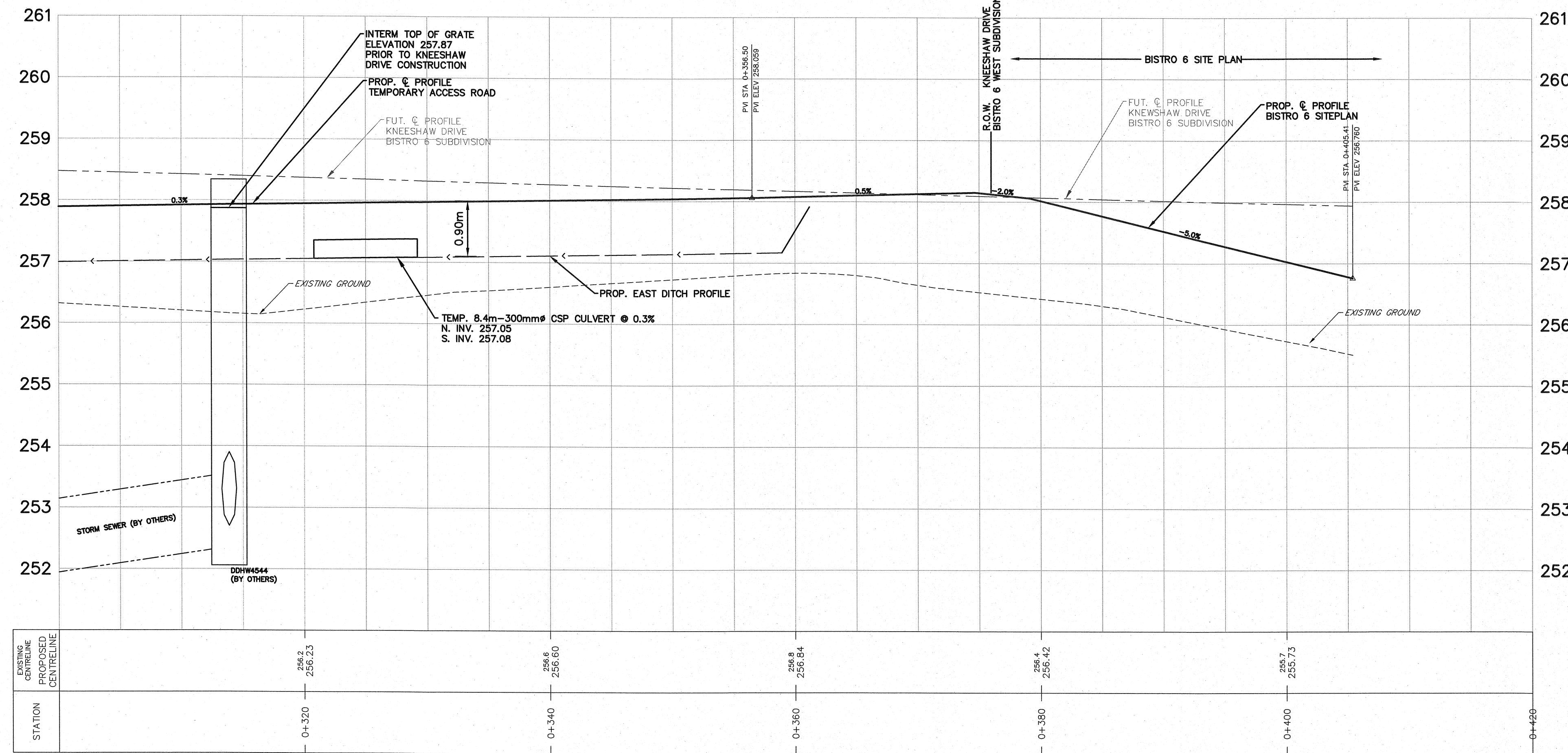
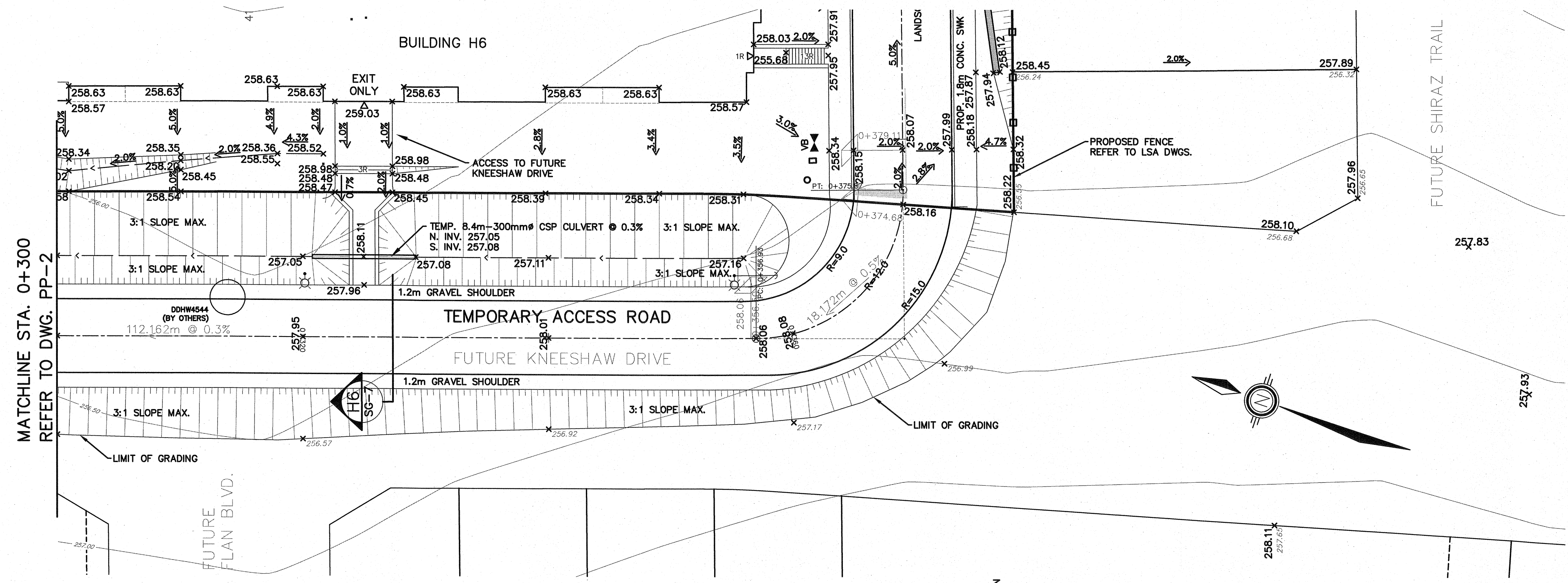
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BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911610 E807799 ELEV 250.508			
BENCHMARK NO. 03120000054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 10M EAST OF HURONIA ROAD, N4910876.122 E807801.003 ELEV 248.098			
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02KM WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N4800670.257 E800733.580 ELEV 252.807			
NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
PLAN & PROFILE
TEMPORARY ACCESS ROAD
STA. 0+150 TO 0+300

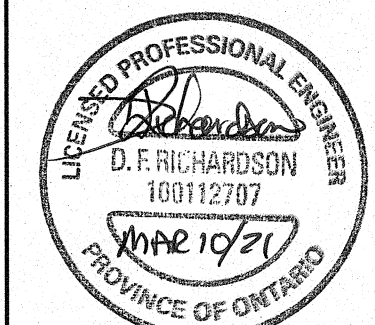
		229 Mapleview Dr. E. Unit 1 Barrie, ON L4N 0W6 P. 705.734.2598 F. 705.734.1058	
DESIGN	JH	SCALE: H=1:250 V=1:50	DATE NOVEMBER 2018
DRAWN	JH	PROJECT PRA-17021	DWG. NO PP-2
CHECKED	DR		

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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
No. of Pages: 1

BENCHMARK:			
BENCHMARK NO. 01019865454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LORRIS CREEK, 0.50M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 8.45M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF CORNER. NAD83/1983 ELEV 241.861			
BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAPIOLE BASE 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHWEST OF THE FLAPIOLE BASE. NAD83/1983 ELEV 250.508			
BENCHMARK NO. 03120080058 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 100M EAST OF HURONIA ROAD. NAD83/1983 ELEV 246.999			
BENCHMARK NO. 03120110013 LOCATED ON LOOKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02KM WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. NAD83/1983 ELEV 252.807			
NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
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3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR

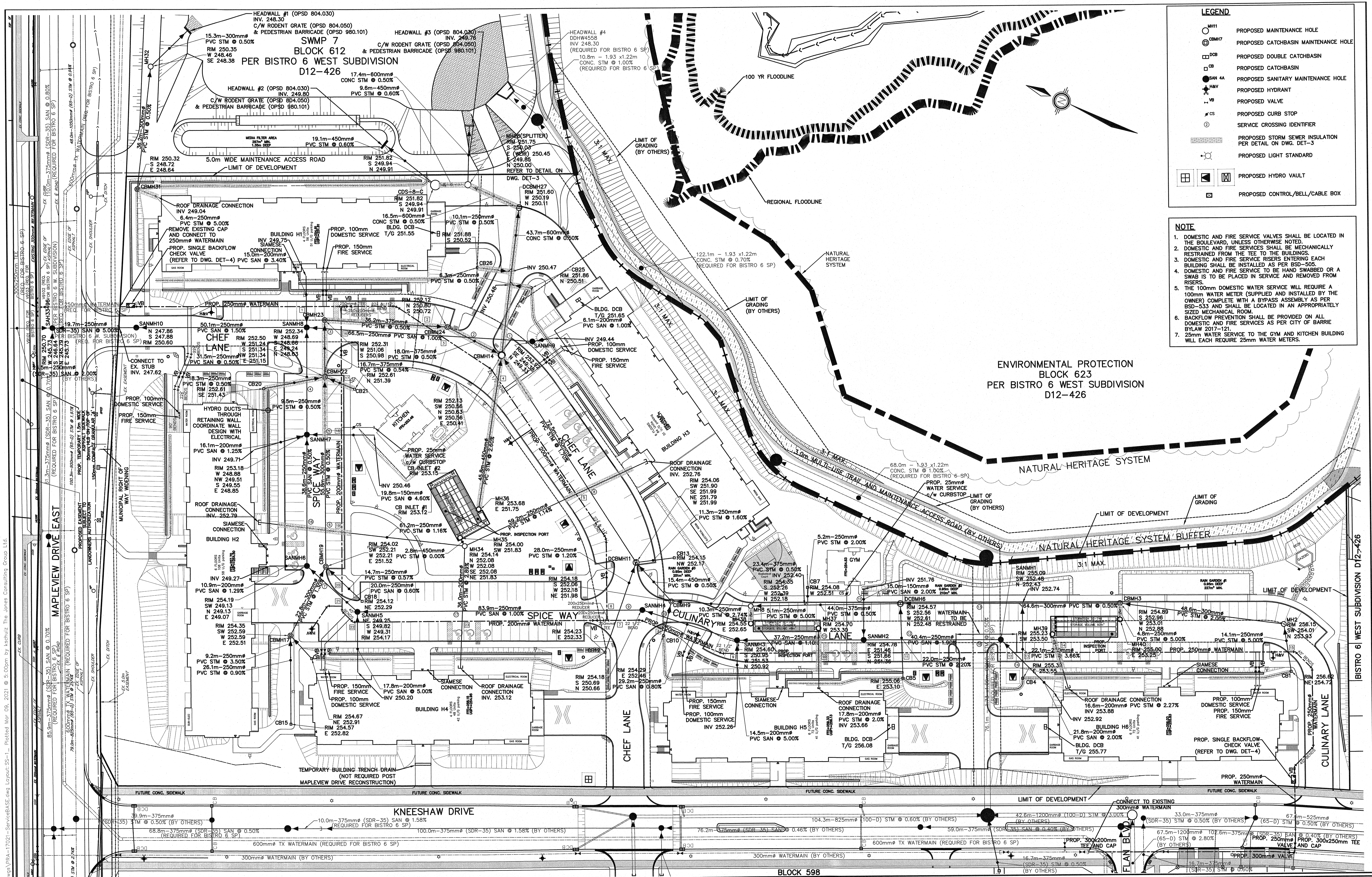


PRATT HANSEN GROUP LTD.
BISTRO 6
CITY OF BARRIE
PLAN & PROFILE
TEMPORARY ACCESS ROAD
STA. 0+300 TO 0+405.41

JONES
CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P: 705.734.2538
F: 705.734.1058

DESIGN	JJH	SCALE: H=1:250 V=1:50	DATE	NOVEMBER 2018
DRAWN	JJH	PROJECT	DWG. NO	
CHECKED	DR	PRA-17021	PP-3	



LEGEND

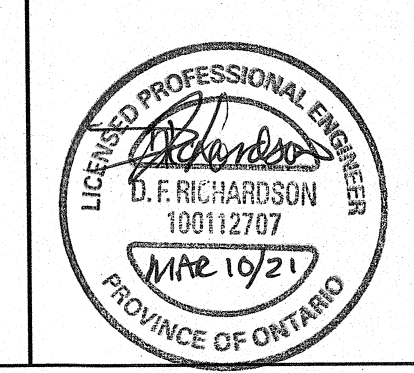
- MH1 PROPOSED MAINTENANCE HOLE
- CBM17 PROPOSED CATCHBASIN MAINTENANCE HOLE
- DCB PROPOSED DOUBLE CATCHBASIN
- CB PROPOSED CATCHBASIN
- SAN 4A PROPOSED SANITARY MAINTENANCE HOLE
- HAV PROPOSED HYDRANT
- VB PROPOSED VALVE
- CS PROPOSED CURB STOP
- SERVICE CROSSING IDENTIFIER
- PROPOSED STORM SEWER INSULATION PER DETAIL ON DWG. DET-3
- PROPOSED LIGHT STANDARD
- PROPOSED HYDRO VAULT
- PROPOSED CONTROL/BELL/CABLE BOX

- NOTE**
1. DOMESTIC AND FIRE SERVICE VALVES SHALL BE LOCATED IN THE BOULEVARD, UNLESS OTHERWISE NOTED.
 2. DOMESTIC AND FIRE SERVICES SHALL BE MECHANICALLY RESTRAINED FROM THE TEE TO THE BUILDINGS.
 3. DOMESTIC AND FIRE SERVICE RISERS ENTERING EACH BUILDING SHALL BE INSTALLED AS PER BSD-505.
 4. DOMESTIC AND FIRE SERVICE TO BE HAND SWAGGED OR A SWAG IS TO BE PLACED IN SERVICE AND REMOVED FROM RISERS.
 5. THE 100mm DOMESTIC WATER SERVICE WILL REQUIRE A 100mm WATER METER (SUPPLIED AND INSTALLED BY THE OWNER) COMPLETE WITH A BYPASS ASSEMBLY AS PER BSD-533 AND SHALL BE LOCATED IN AN APPROPRIATELY SIZED MECHANICAL ROOM.
 6. BACKFLOW PREVENTION SHALL BE PROVIDED ON ALL DOMESTIC AND FIRE SERVICES AS PER CITY OF BARRIE BYLAW 2017-121.
 7. 25mm WATER SERVICE TO THE GYM AND KITCHEN BUILDING WILL EACH REQUIRE 25mm WATER METERS.

FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
No. of Pages: 1

BENCHMARK:
BENCHMARK NO. 0101065454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE OVER LOVER'S CREEK, 0.850M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 1.5M NORTH OF THE CORNER OF 8204, 28.2M WEST OF THE NORTHEAST CORNER OF BRIDGE, 19.0M TOP OF CORNER. N4910768.889 ELEV 250.284.100 ELEV 241.981
BENCHMARK NO. 0312003020 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 190' ESTER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL. 0.040, 28.2M WEST OF THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL. N4910768.889 ELEV 250.284.100
BENCHMARK NO. 0312003020 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 10m EAST OF HURONIA ROAD. N4910768.122 ELEV 240.991.092 ELEV 245.999
BENCHMARK NO. 0312003020 LOCATED ON LOOKOUT POINT ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.020M WEST OF THE VANCE STREET AND HURONIA ROAD INTERSECTION. N49009870.257 ELEV 252.807

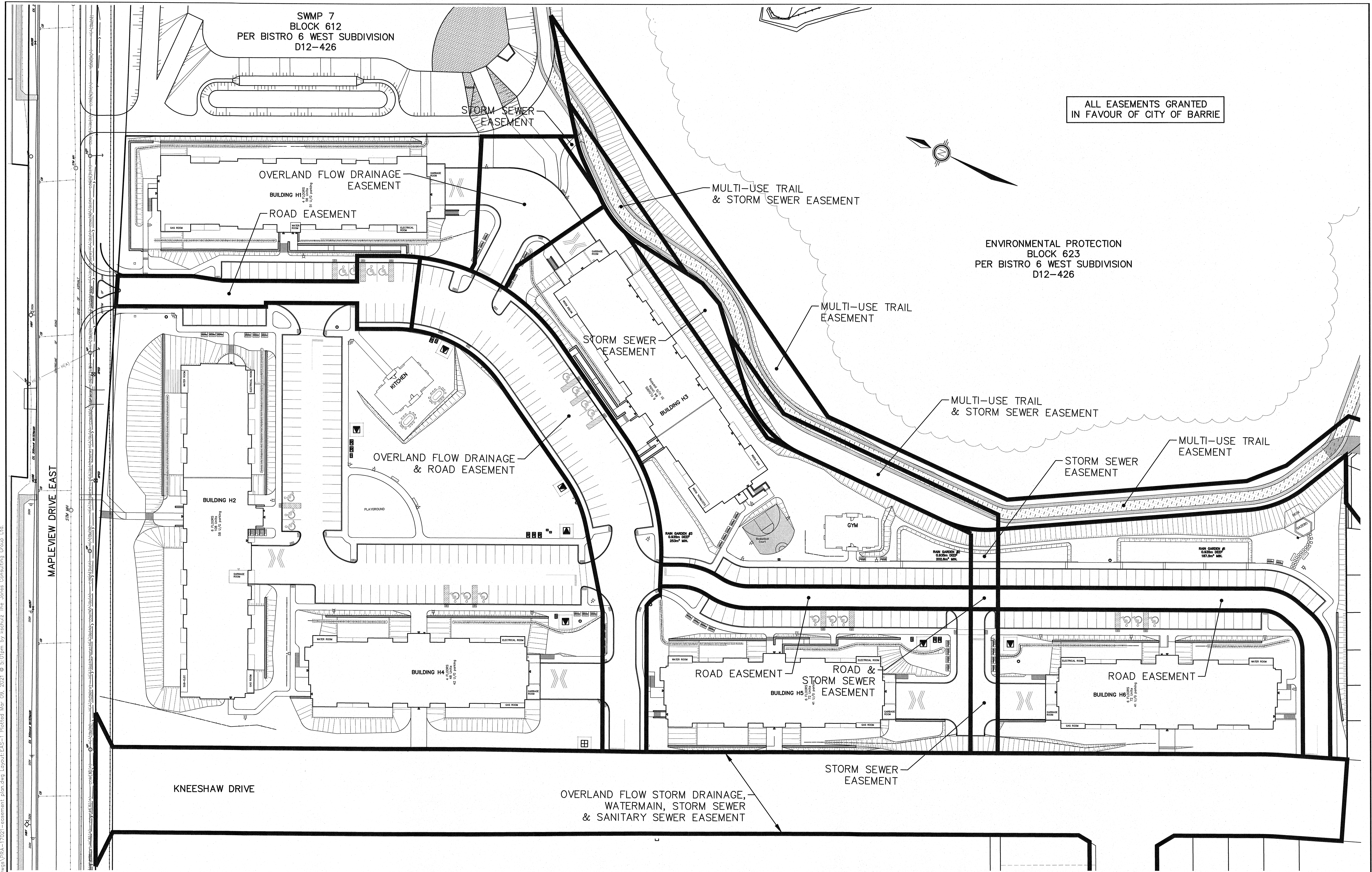
NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
SITE SERVICING PLAN
WITH SUBDIVISION AND
ULTIMATE MAPLEVIEW DRIVE EAST

	DESIGN	JJH	SCALE: 1:500	DATE	APR 2017
	DRAWN	CG	PROJECT	DWG. NO.	SS-1
	CHECKED	MF	PRA-17021		

229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056



ALL EASEMENTS GRANTED
IN FAVOUR OF CITY OF BARRIE

ENVIRONMENTAL PROTECTION
BLOCK 623
PER BISTRO 6 WEST SUBDIVISION
D12-426

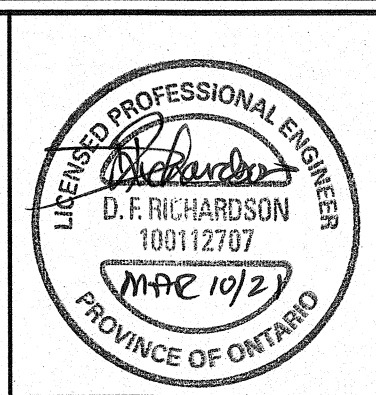
MAPLEVIEW DRIVE EAST

KNEESHAW DRIVE

FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:
BENCHMARK NO. 01019855454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE
E OVER LOWERS CREEK, 0.050M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY
IN THE NORTH FACE, 5.40M NORTH OF CENTRELINE OF ROAD, 28.0M WEST OF THE
NORTHEAST END OF BRIDGE, 10CM TOP OF COPING. N4910788.889 E607284.100
ELEV 241.681
BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER
DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH
FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON
THE SOUTHSIDE OF THE FLAGPOLE BASE. N4811810 E607799 ELEV 250.008
BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST
APPROXIMATELY 100M EAST OF HURONIA ROAD. N4810878.122 E607001.062 ELEV 248.909
BENCHMARK NO. 03120100103 LOCATED ON LOGHART ROAD ON THE NORTH SIDE OF THE
BOULEVARD, APPROXIMATELY 1.020M WEST OF THE YONGE STREET AND HURONIA ROAD
INTERSECTION. N49009870.257 E606733.960 ELEV 252.807

NO.	REVISIONS	DATE	INITIAL
2	SITE PLAN AMENDMENT	21-03-08	DR
1	FOURTH SUBMISSION	19-08-30	DR



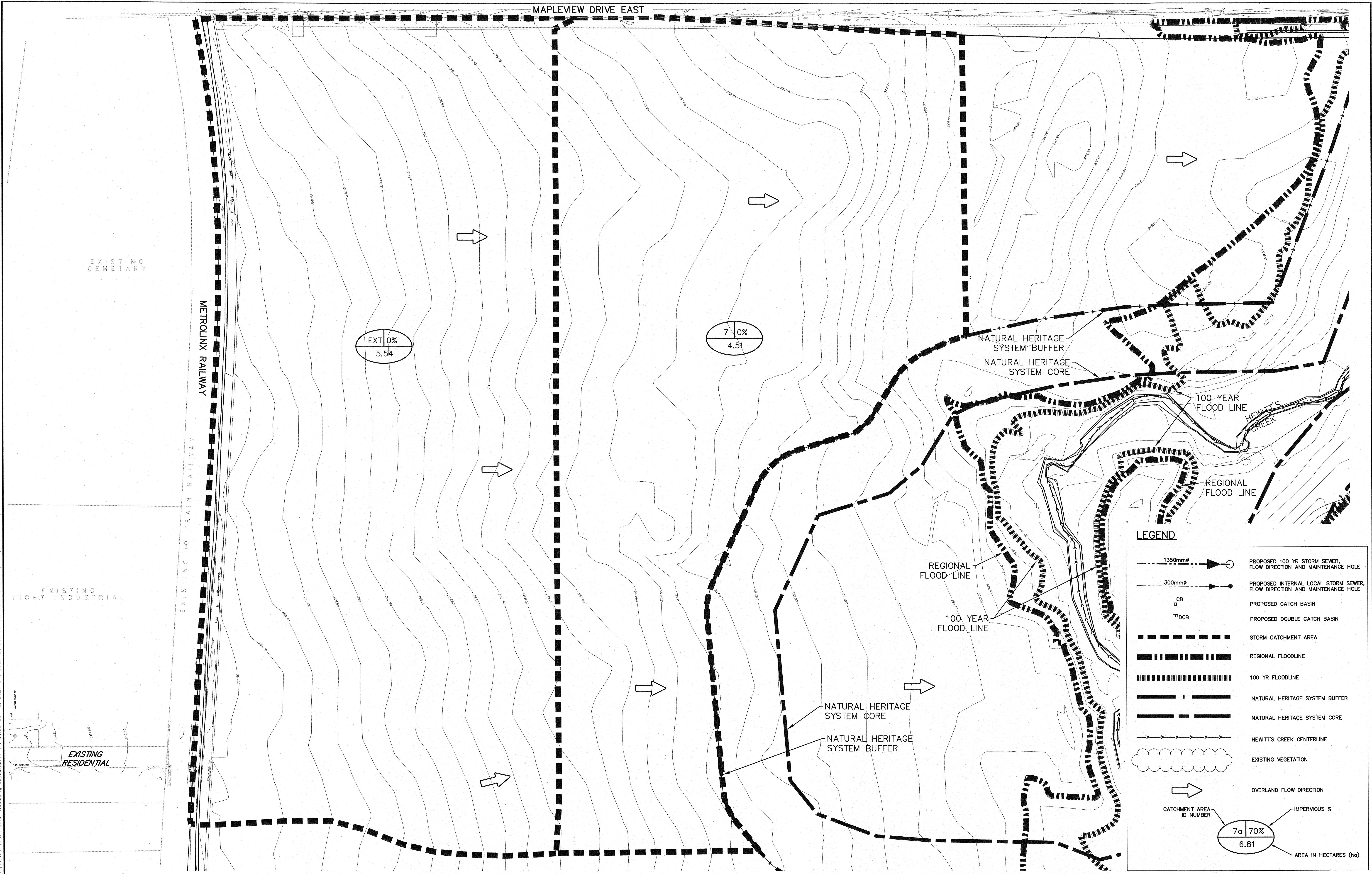
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
COMPREHENSIVE
EASEMENT PLAN

JONES
CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

229 Maplevue Dr. E. Unit 1
Barrie, ON L4N 0W6
P: 705.734.2658
F: 705.734.1058

DESIGN	JH	SCALE: 1:500	DATE	AUGUST 2019
DRAWN	KS	PROJECT	DWG. NO.	
CHECKED	MF	PRA-17021	EAS-1	

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C:\Eng_3D\CPRA-17021\Design\Drawings\CPRA-17021-SWM-Base.dwg Layout:SWM-1 Plotted: Mar 10, 2021 @ 8:38am By: jcschulz The Jones Consulting Group Ltd.

FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
No. of Pages: 1

BENCHMARK:

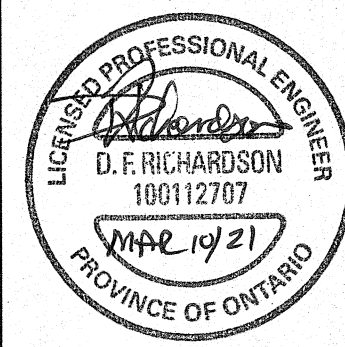
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BENCHMARK NO: 03120030029 MAPLEVUE HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911610 E607799 ELEV 250.508

BENCHMARK NO: 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVUE DRIVE WEST APPROXIMATELY 10m EAST OF HURONIA ROAD. N4910878.122 E607161.002 ELEV 248.995

BENCHMARK NO: 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N49009870.257 E608753.580 ELEV 252.807

6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR
NO.	REVISIONS	DATE	INITIAL



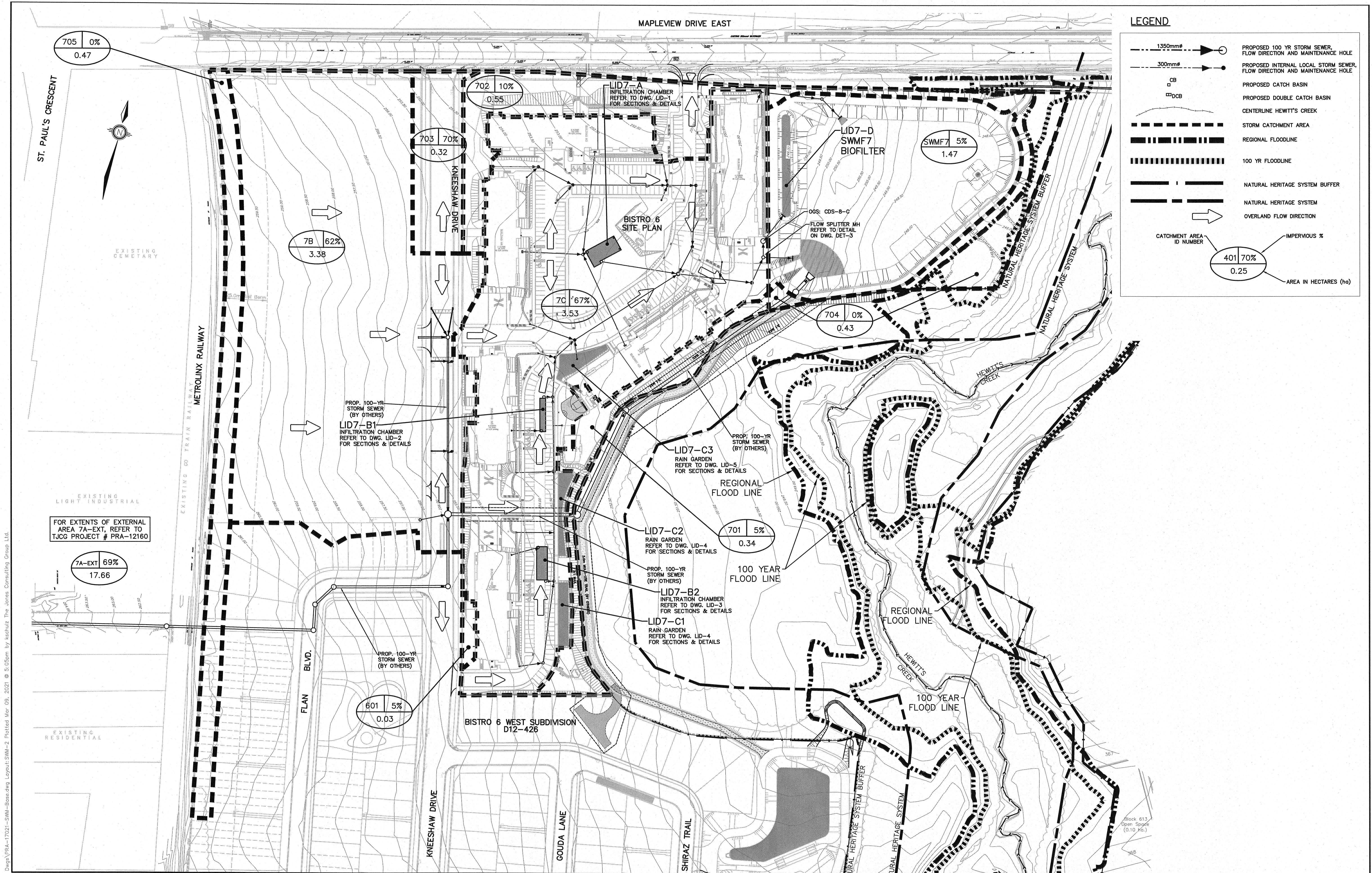
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE

STORMWATER MANAGEMENT PLAN
PRE-DEVELOPMENT CONDITIONS



229 Maplevue Dr. E, Unit 1
Barrie, ON L4N 0W5
P: 705.734.2538
F: 705.734.1058

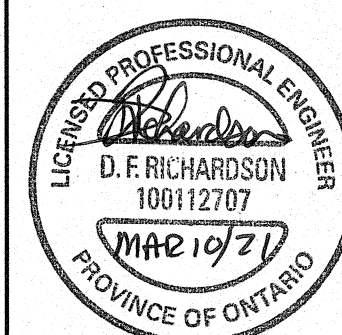
DESIGN JH	SCALE: 1:750	DATE APR 2017
DRAWN FD	PROJECT PRA-17021	DWG. NO SWM-1
CHECKED MF		



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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
No. of Pages: 1

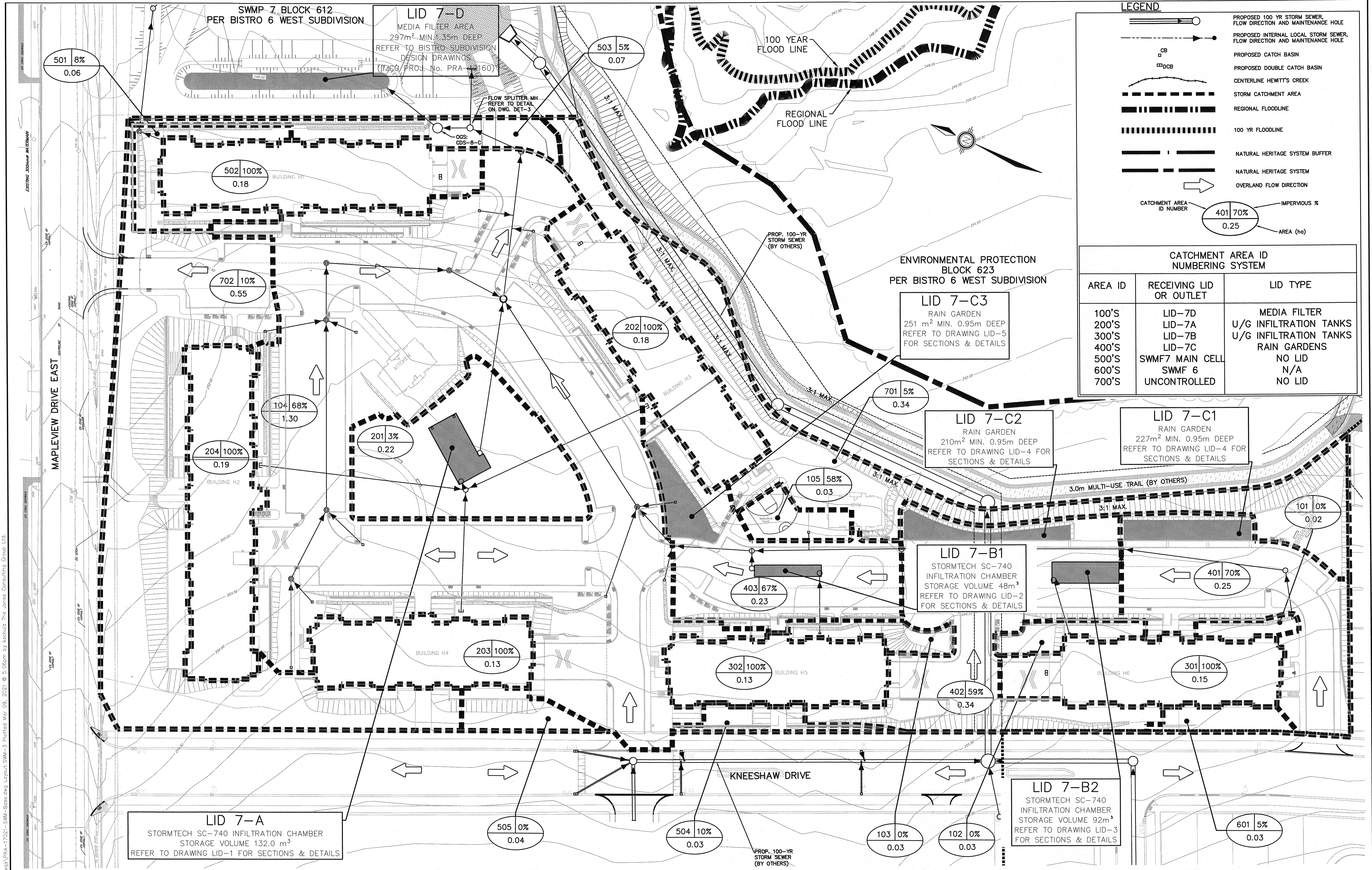
BENCHMARK:			
BENCHMARK NO. 0101885454 LOCATED ON CONCRETE BRIDGE CARRYING MAPVIEW DRIVE E. OVER LOWERS CREEK, 0.85M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 0.45M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE NORTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON ELEV 241.861			
BENCHMARK NO. 03120030029 MAPVIEW HEIGHTS ELEMENTARY SCHOOL - 150' ESTER OR THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHWEST CORNER OF THE FLAGPOLE BASE, MAPVIEW HEIGHTS ELEV 250.508			
BENCHMARK NO. 03120030029 LOCATED ON THE SOUTH LINE OF MAPVIEW DRIVE WEST APPROXIMATELY 10m EAST OF HURONIA ROAD, MAPVIEW HEIGHTS ELEV 245.099			
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION, MAPVIEW HEIGHTS ELEV 250.507			
NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
STORMWATER MANAGEMENT PLAN
PEAK FLOW MODEL
CATCHMENT AREAS

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS			
DESIGN JJH	SCALE: 1:1000	DATE JULY 2017	
DRAWN FD	PROJECT PRA-17021	DWG. NO. SWM-2	
CHECKED MF			

229 Mapview Dr. E. Unit 1
Barrie, ON L4N 0W6
P. 705.734.2558
F. 705.734.1058



LEGEND

PROPOSED 100 YR STORM SEWER, FLOW DIRECTION AND MAINTENANCE HOLE

PROPOSED INTERNAL LOCAL STORM SEWER, FLOW DIRECTION AND MAINTENANCE HOLE

PROPOSED CATCH BASIN

PROPOSED DOUBLE CATCH BASIN

CENTERLINE HEWITT'S CREEK

STORM CATCHMENT AREA

REGIONAL FLOODLINE

100 YR FLOODLINE

NATURAL HERITAGE SYSTEM BUFFER

NATURAL HERITAGE SYSTEM

OVERLAND FLOW DIRECTION

CATCHMENT AREA ID NUMBER

IMPERVIOUS %

AREA (ha)

CATCHMENT AREA ID NUMBERING SYSTEM

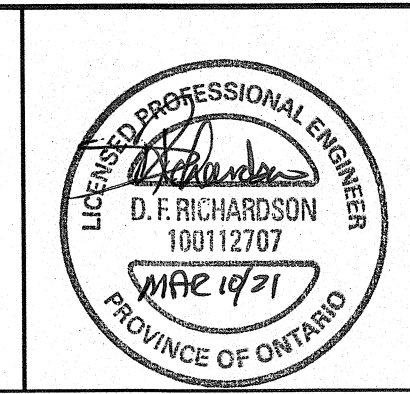
AREA ID	RECEIVING LID OR OUTLET	LID TYPE
100'S	LID-7D	MEDIA FILTER
200'S	LID-7A	U/G INFILTRATION TANKS
300'S	LID-7B	U/G INFILTRATION TANKS
400'S	LID-7C	RAIN GARDENS
500'S	SWMF7 MAIN CELL	NO LID
600'S	SWMF 6	N/A
700'S	UNCONTROLLED	NO LID

G:\Enr\3D\PR-17021-Design\Draws\PR-17021-SWM-Base.dwg Layout:SW-3 Plotted: Mar 09, 2021 @ 5:06pm by kschulz The Jones Consulting Group Ltd.

FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
No. of Pages: 1

BENCHMARK:
BENCHMARK NO. 0101885454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVUE DRIVE E OVER LOWER'S CREEK, 0.65M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.5M NORTH OF CENTRELINE OF ROAD, 280M WEST OF THE NORTHEAST END OF BRIDGE, 190M TOP OF COPING. N4610786.889 E607284.100 ELEV 241.691
BENCHMARK NO. 03120030029 MAPLEVUE HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHWEST OF THE FLAGPOLE BASE. N4611810 E607799 ELEV 250.508
BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVUE DRIVE WEST APPROXIMATELY 10M EAST OF HURONIA ROAD. N4610878.122 E607701.082 ELEV 248.599
BENCHMARK NO. 03120110013 LOCATED ON LOUGHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02M WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N46009870.257 E608733.580 ELEV 252.807

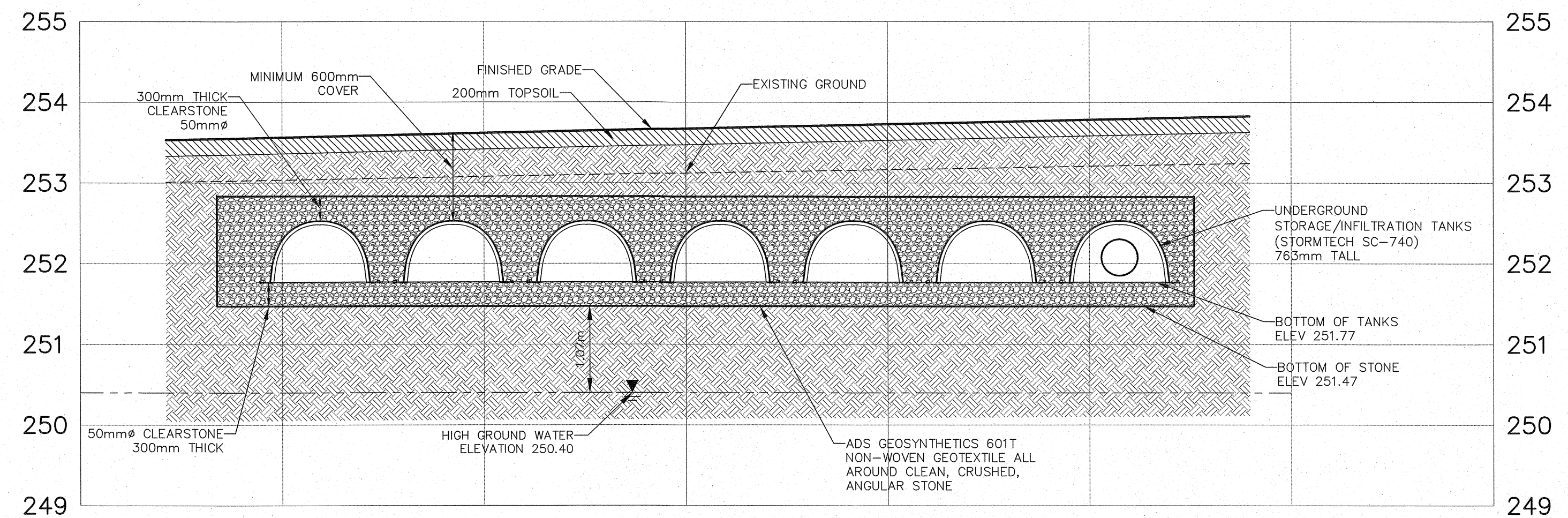
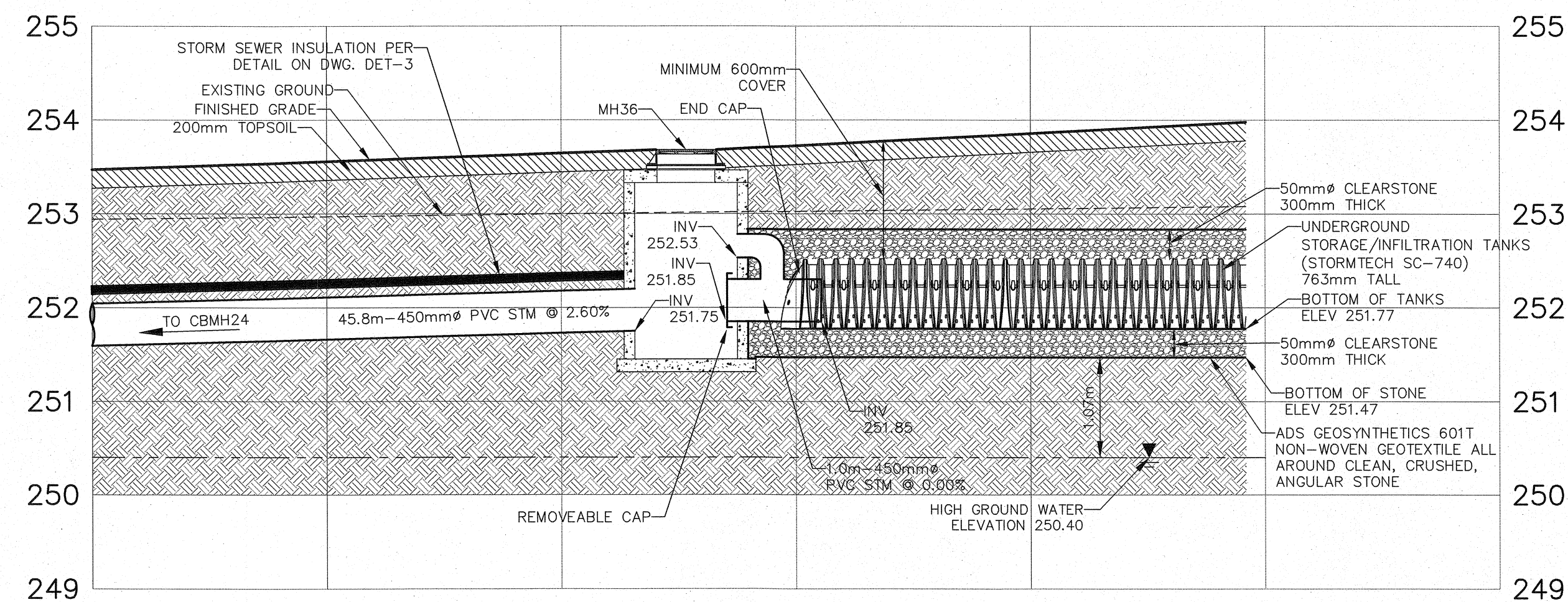
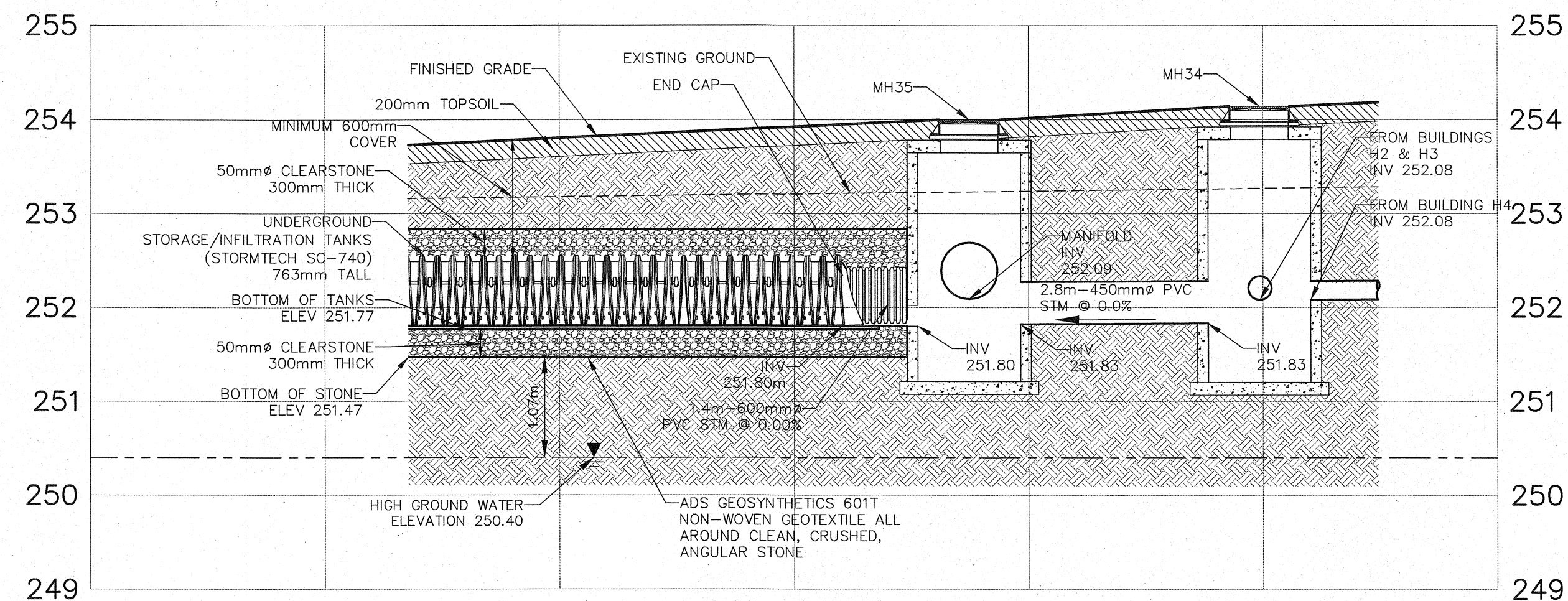
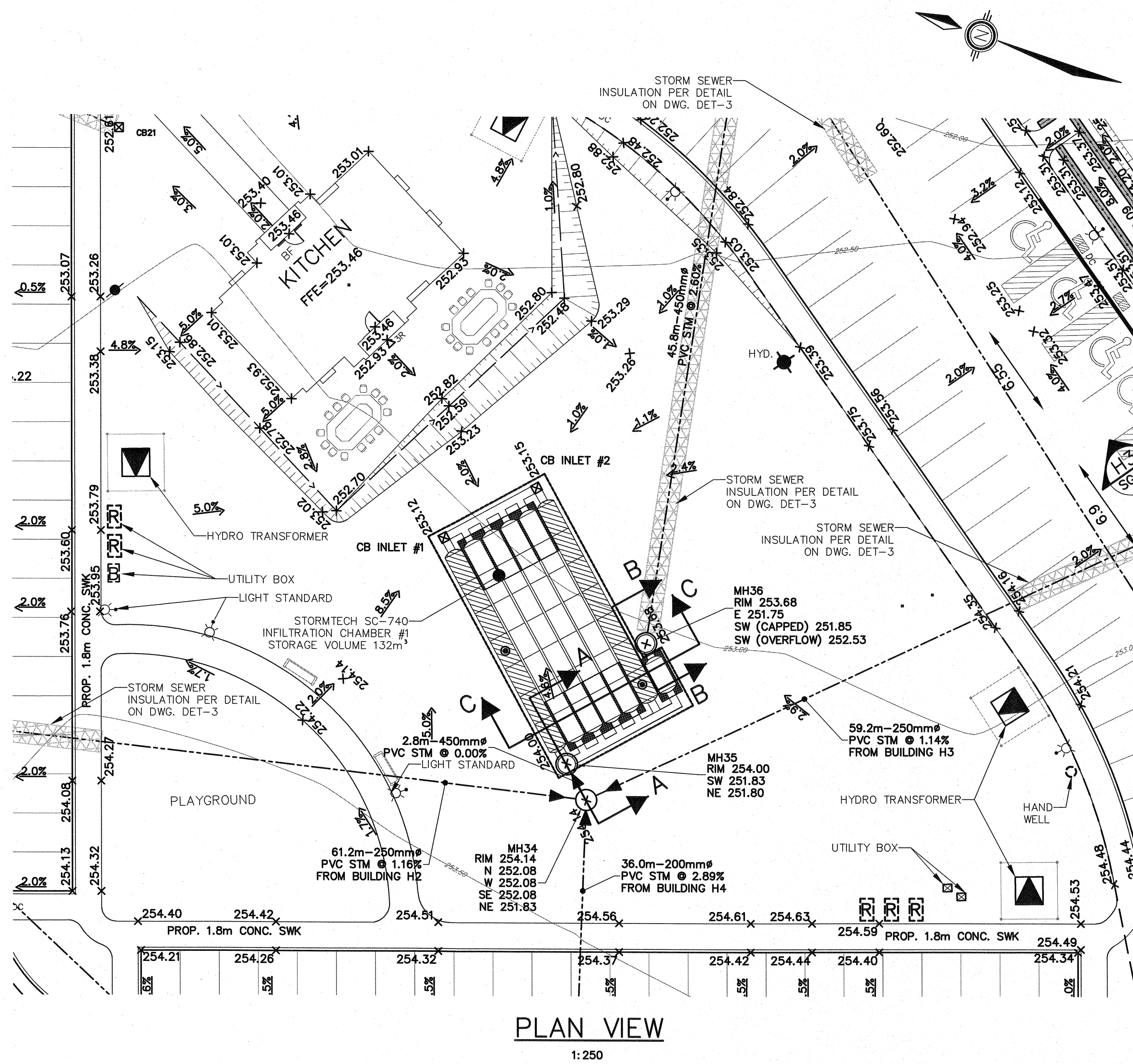
NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
2	FIRST SUBMISSION	17-07-10	DR



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
STORMWATER MANAGEMENT PLAN
LID MODEL CATCHMENT AREAS

JONES
CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Maplevue Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

DESIGN	JH	SCALE: 1:500	DATE	APR 2017
DRAWN	FD	PROJECT	DWG. NO	
CHECKED	MF	PRA-17021	SWM-3	



FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:

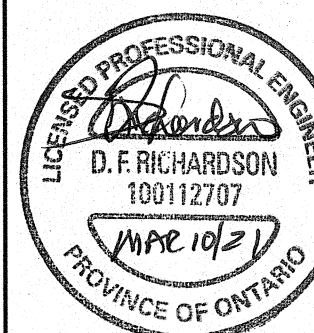
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E OVER LOVER'S CREEK, 0.550M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY
IN THE NORTH FACE, 3.45M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE
NORTHEAST END OF BRIDGE, 15CM TOP OF CORNER. N4910788.889 E307264.100
ELEV 241.861

BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER
DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE PLACER BASE 4.7M SOUTH
FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON
THE SOUTHWEST CORNER OF THE PLACER BASE. N491610 E307799 ELEV 250.908

BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST
APPROXIMATELY 10M EAST OF HURONIA ROAD. N4910878.122 E307601.082 ELEV 246.996

BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE
BOULEVARD, APPROXIMATELY 1.020M WEST OF THE VONGE STREET AND HURONIA ROAD
INTERSECTION. N48009676.227 E306733.390 ELEV 252.807

NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR

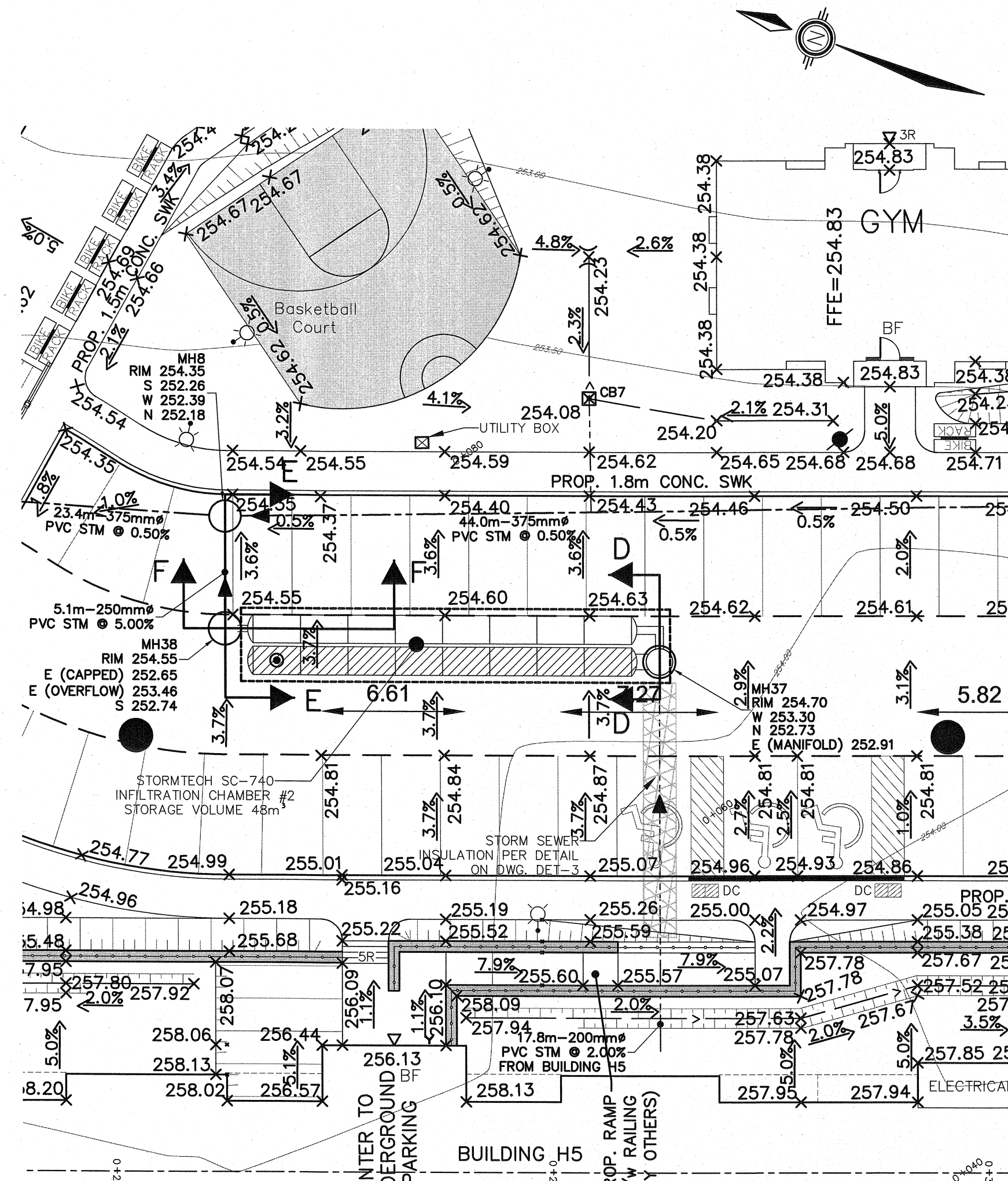


PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
PARK INFILTRATION GALLERY
LID SECTIONS & DETAILS

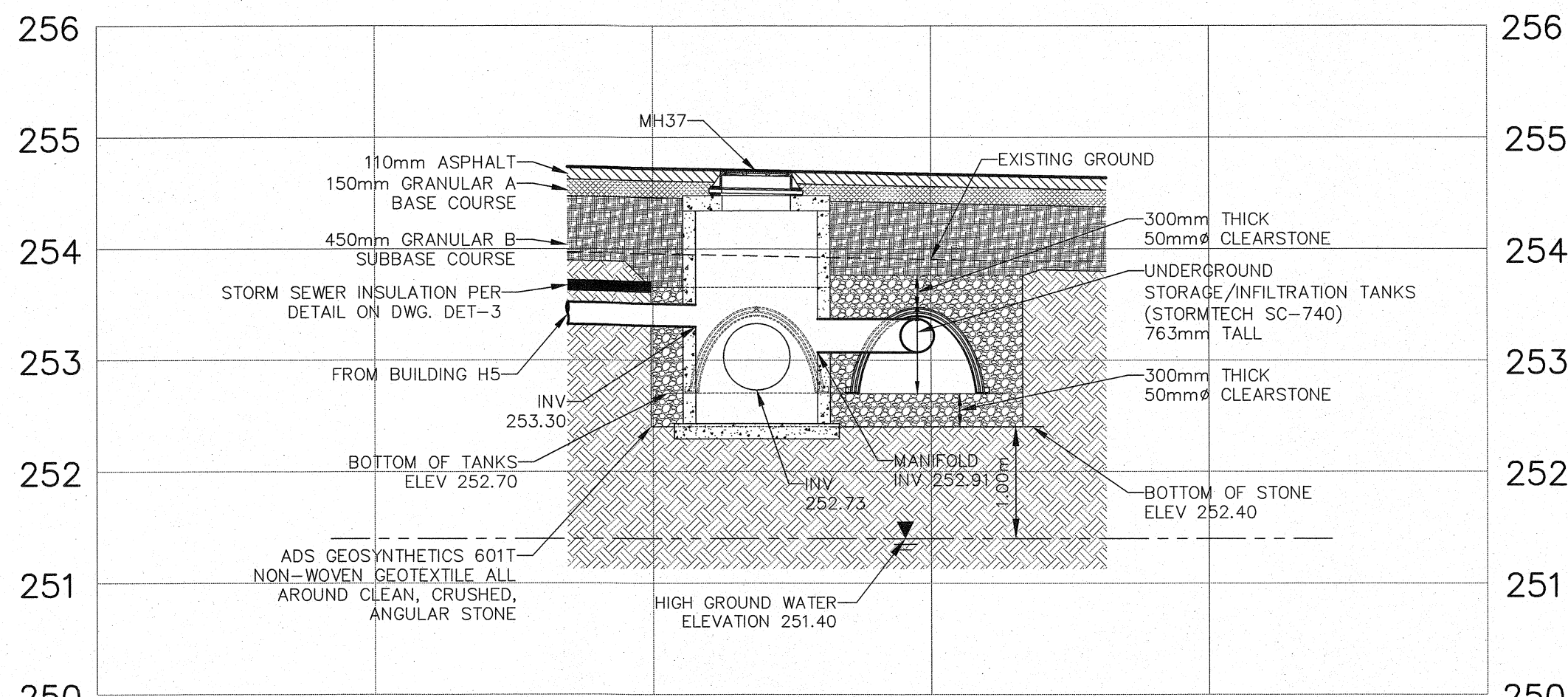


229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W6
P: 705.734.2538
F: 705.734.1066

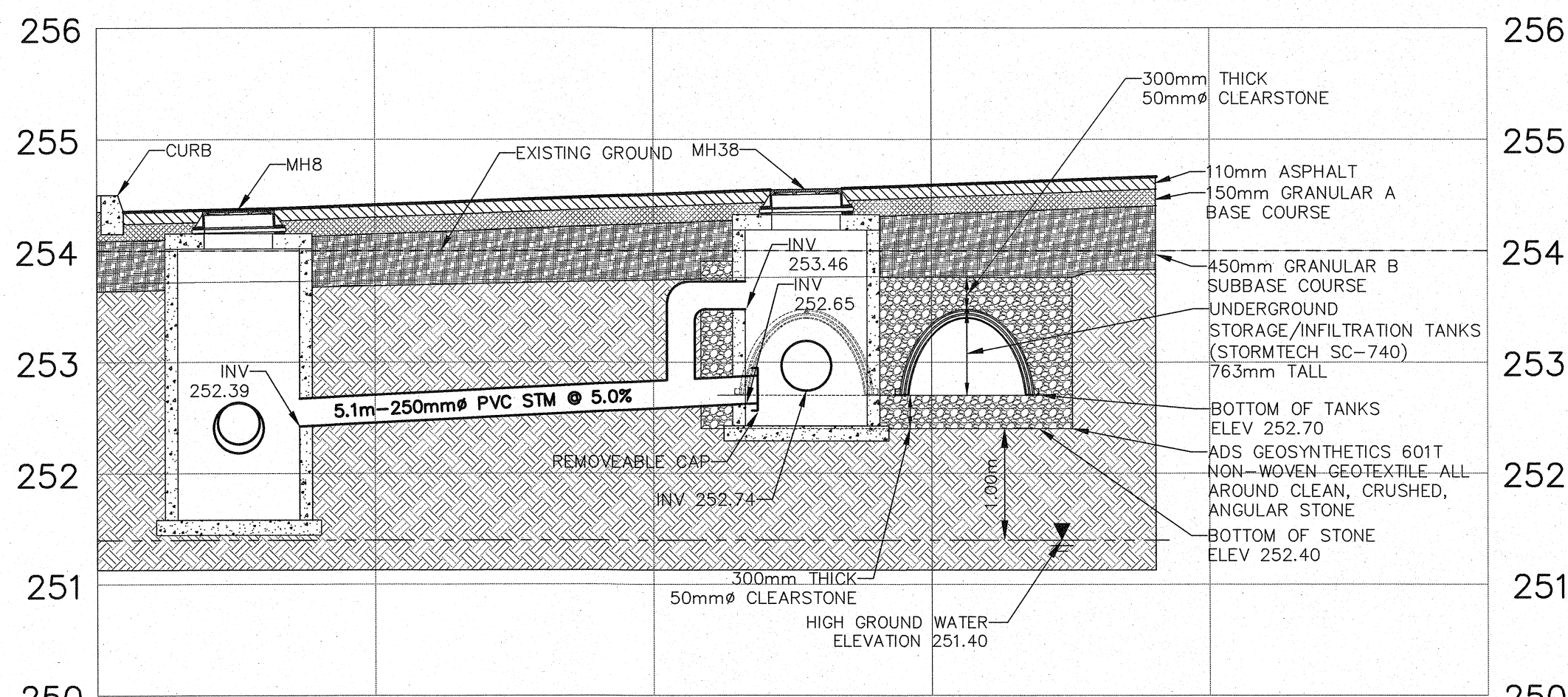
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DRAWN	MG/JJH	PROJECT	DWG. NO.	
CHECKED	DR	PRA-17021	LID-1	



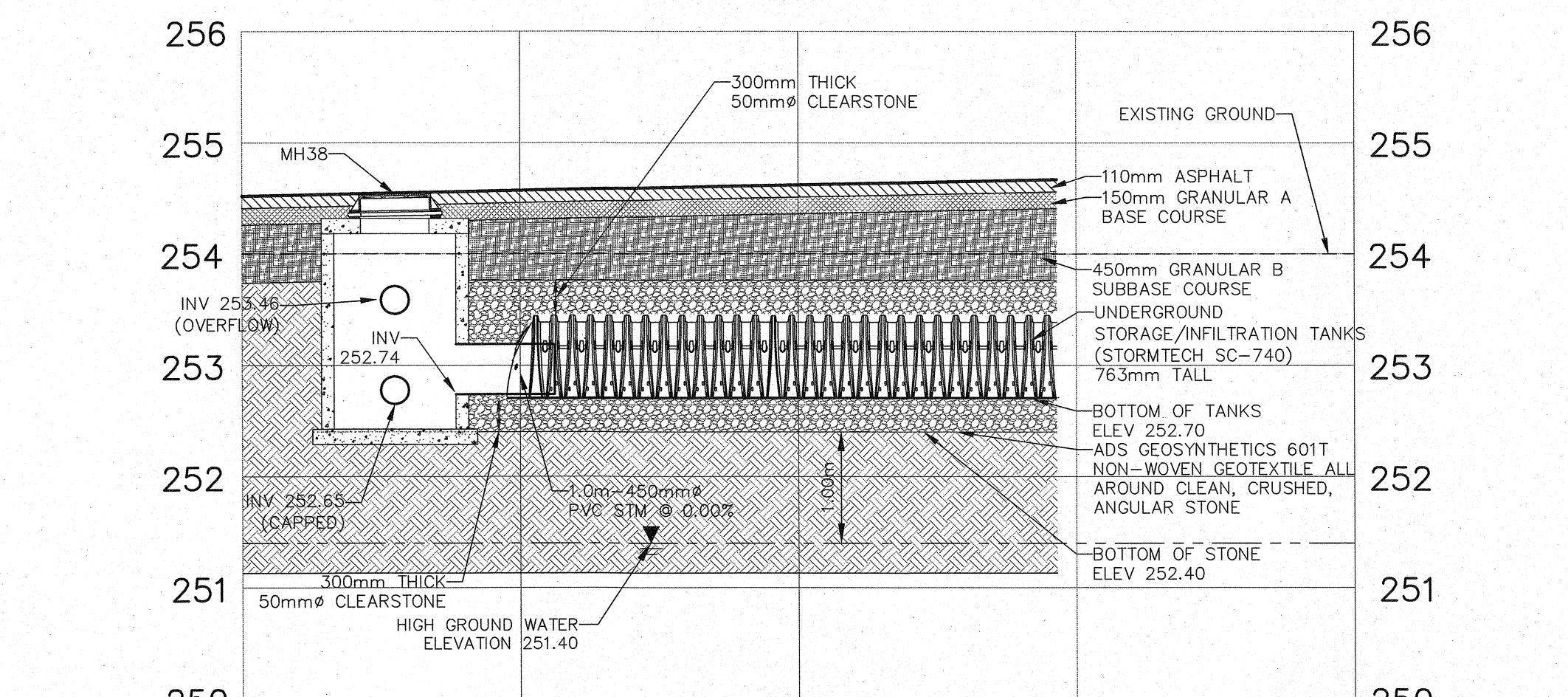
PLAN VIEW
1:200



SECTION D-D
1:50



SECTION E-E
1:50



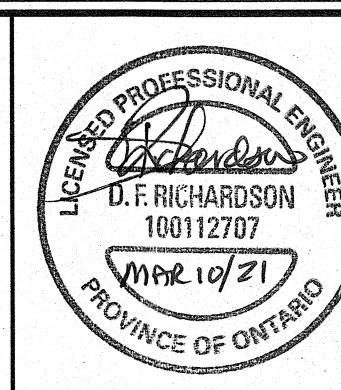
SECTION F-F
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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:

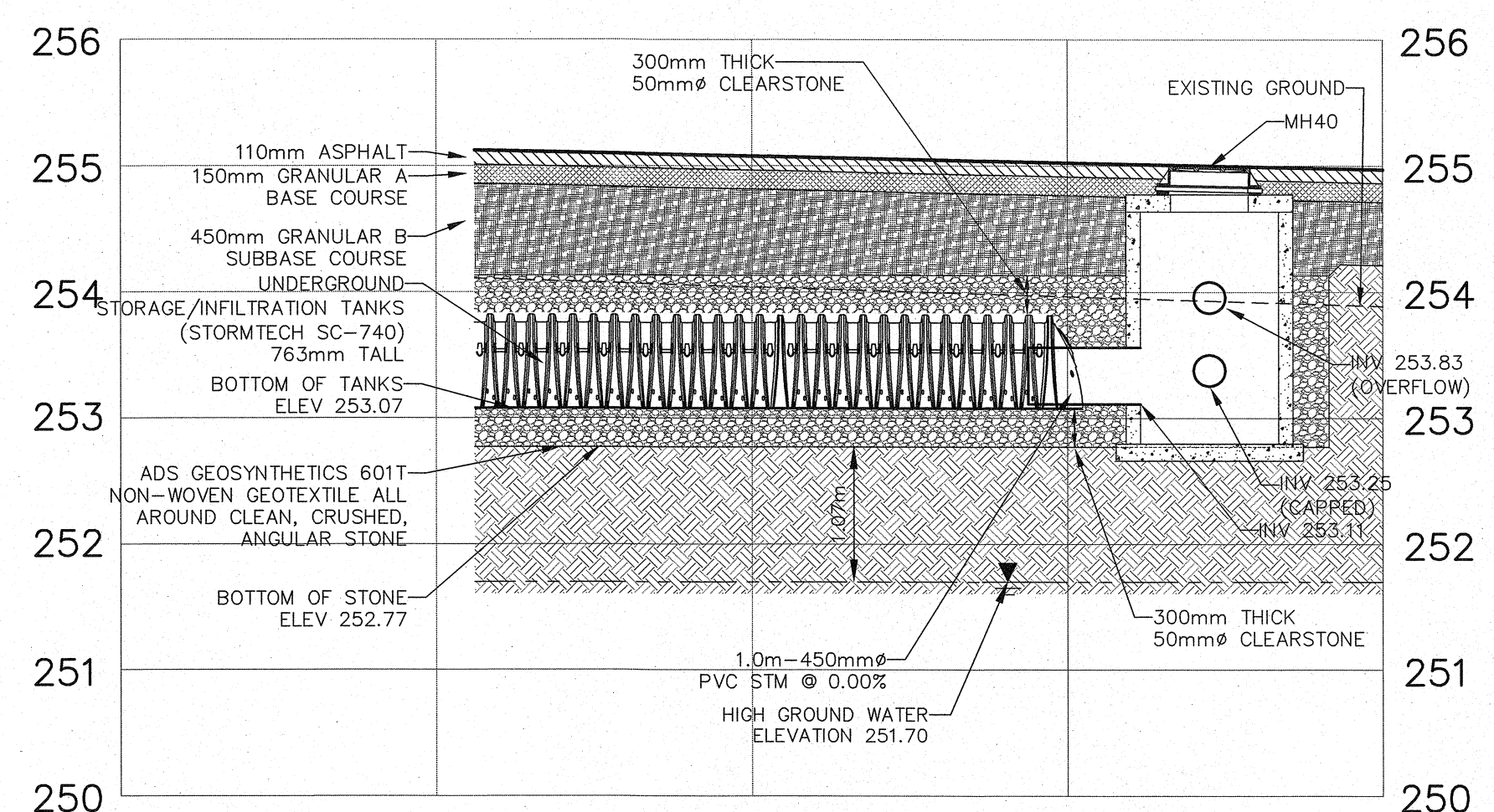
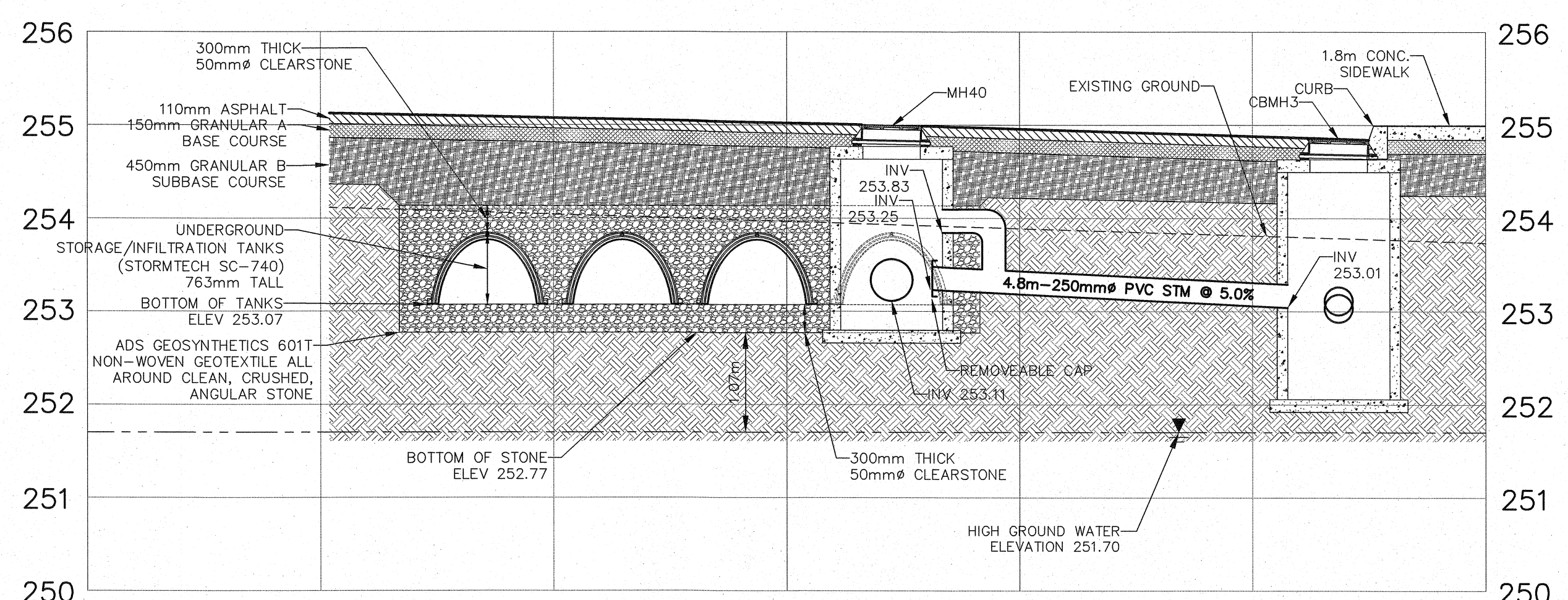
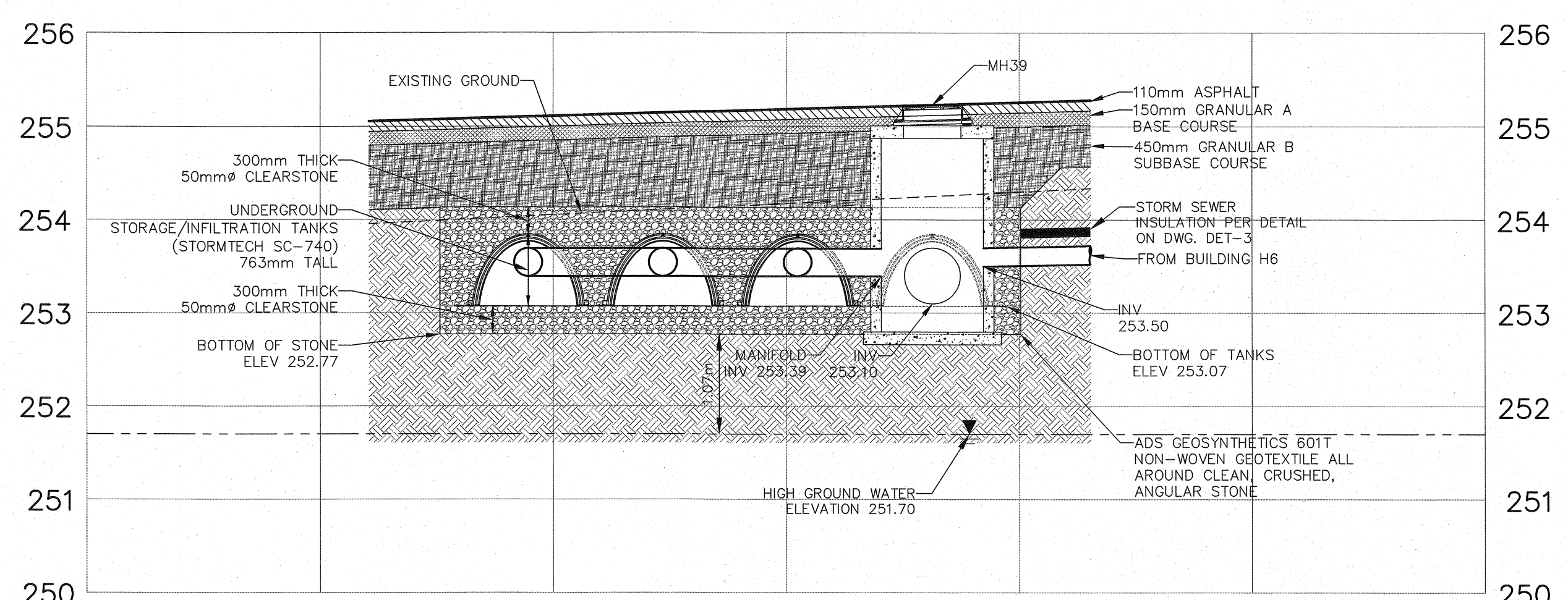
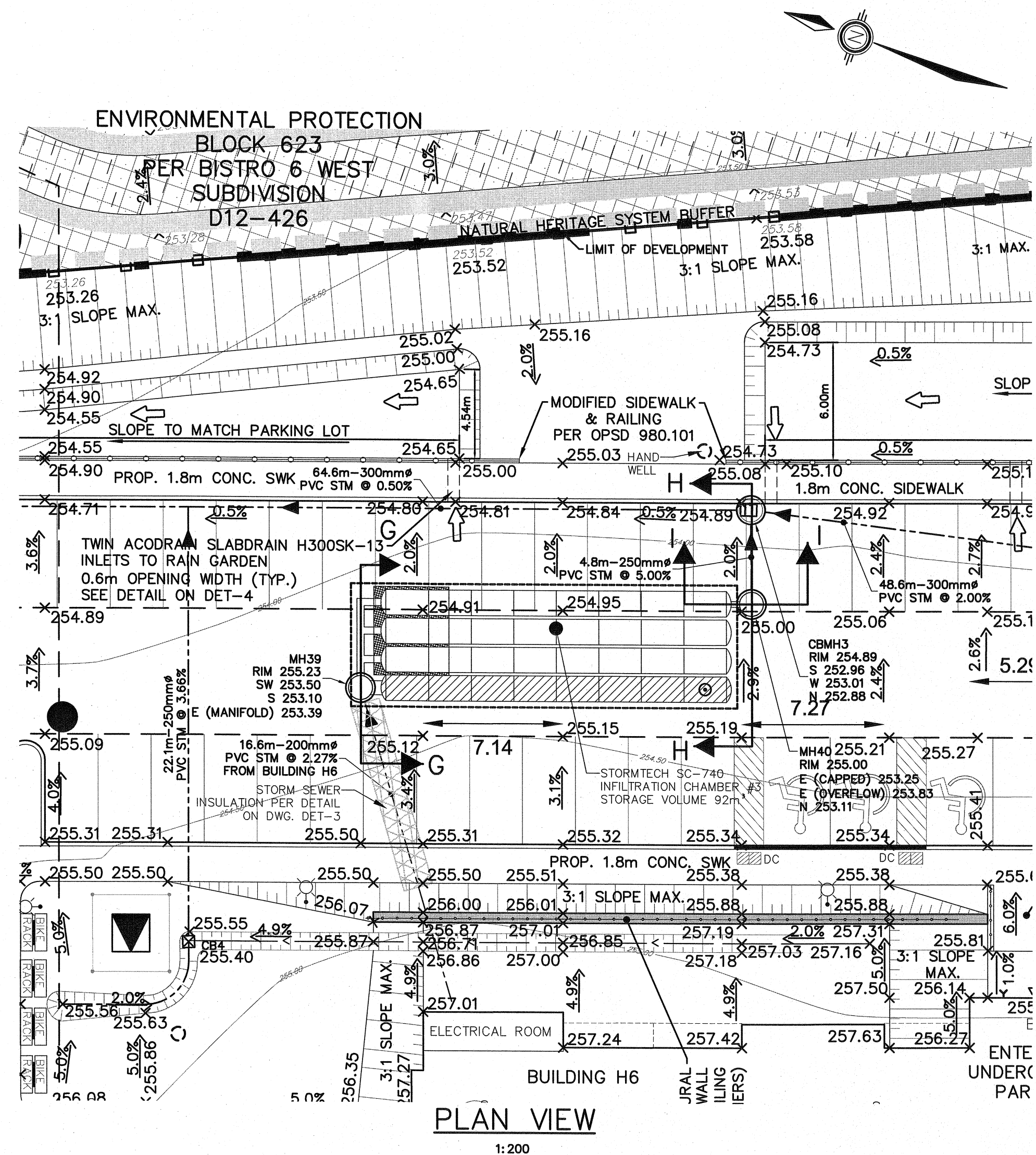
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E OVER LOWER'S CREEK, 0.830M EAST OF HURONTARIO ROAD. TABLET IS SET HORIZONTALLY
IN THE NORTH FACE, 3.45M NORTH OF CENTRELINE OF ROAD, 26CM WEST OF THE
NORTHEAST END OF BRIDGE, 19CM TOP OF COPING. N4910788.889 E607264.100
ELEV 241.961
BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER
DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH
FROM THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON
THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911610 E607799 ELEV 250.508
BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST
APPROXIMATELY 1km EAST OF HURONTARIO ROAD. N491078.122 E607601.022 ELEV 246.996
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE
BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONTARIO ROAD
INTERSECTION. N48009670.257 E606733.590 ELEV 252.807

NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-06-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR



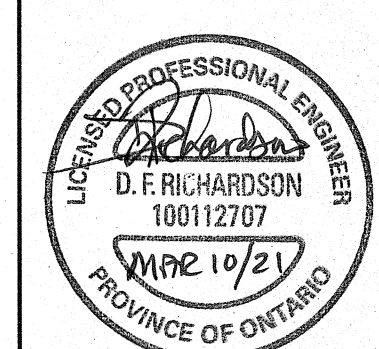
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
BUILDING H5
LID SECTIONS & DETAILS

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS		229 Mapleview Dr. E. Unit 1 Barrie, ON L4N 0W6 P. 705.734.2658 F. 705.734.1058	
DESIGN	MF/JB	SCALE: AS NOTED	DATE JAN 2019
DRAWN	MG/JH	PROJECT	DWG. NO
CHECKED	DR	PRA-17021	LID-2



FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

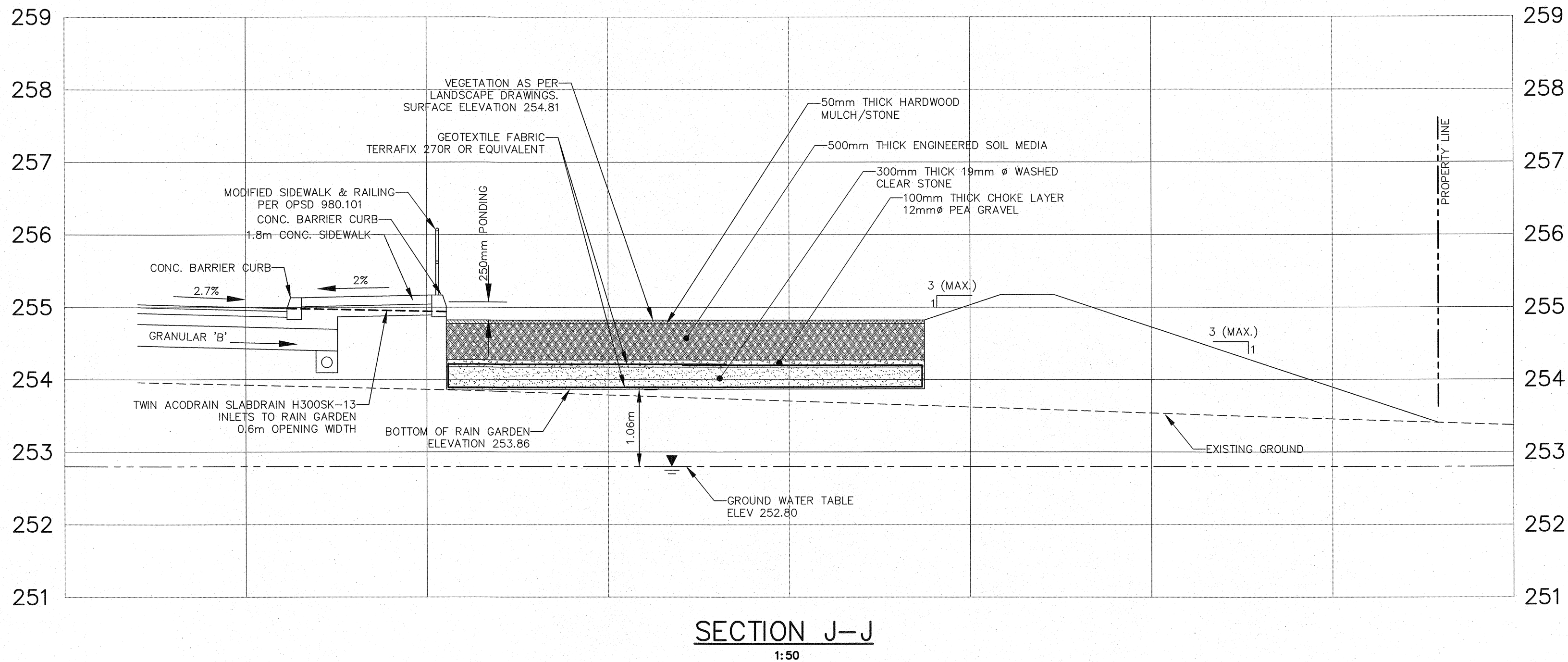
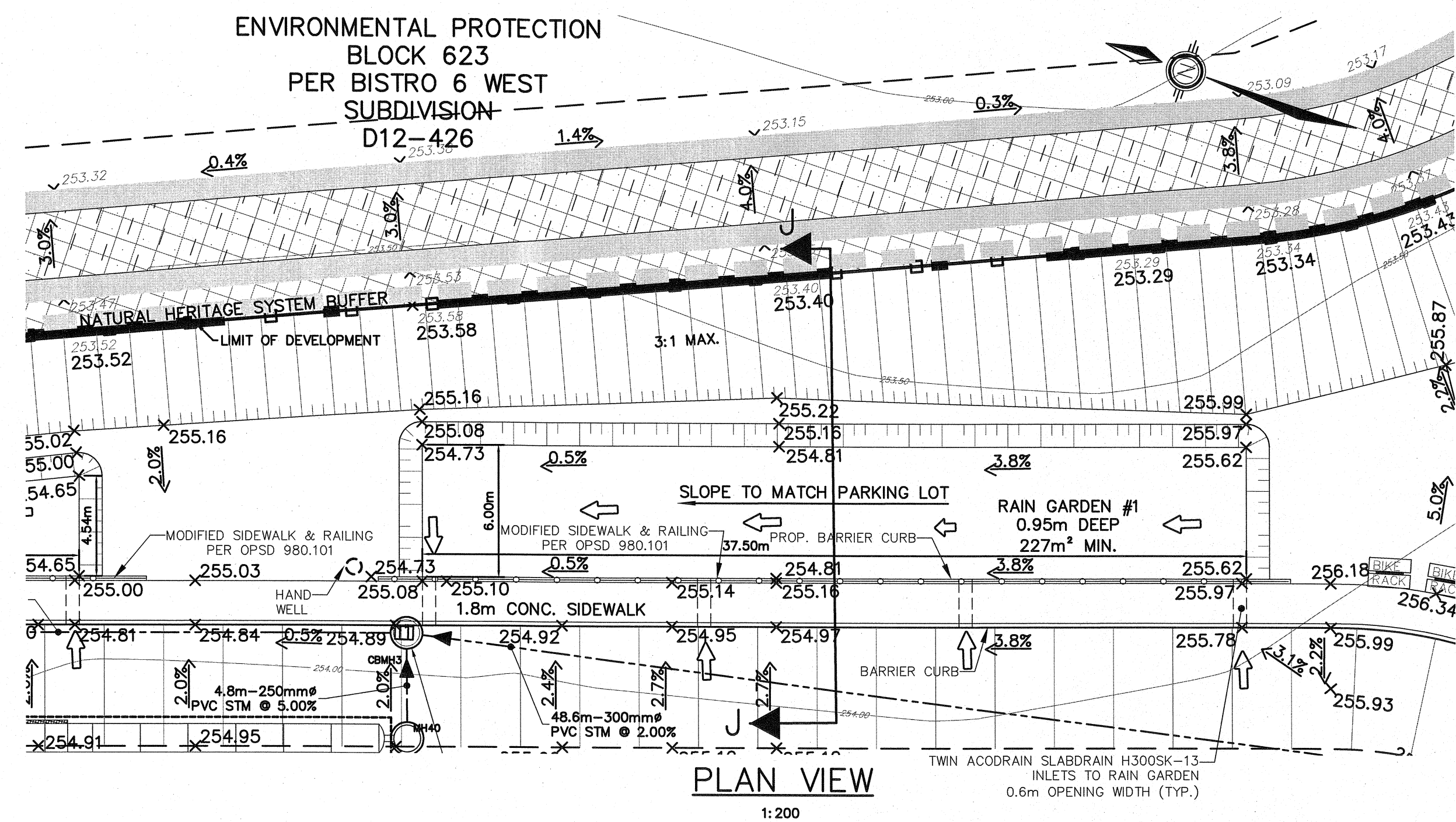
BENCHMARK:			
BENCHMARK NO. 0101988454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE OVER LOVER'S CREEK, 0.85M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.45M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF CORNER. N4910788.889 E607284.100 ELEV 241.861			
BENCHMARK NO. 03120030229 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE, 4.7M SOUTH FROM THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL. AND TABLET IS ON THE SOUTHWEST SIDE OF THE FLAGPOLE BASE. N4911610 E607799 ELEV 250.508			
BENCHMARK NO. 03100080854 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 10M EAST OF HURONIA ROAD. N4910876.122 E607601.062 ELEV 248.996			
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02KM WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N49008970.257 E608733.580 ELEV 252.807			
NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR



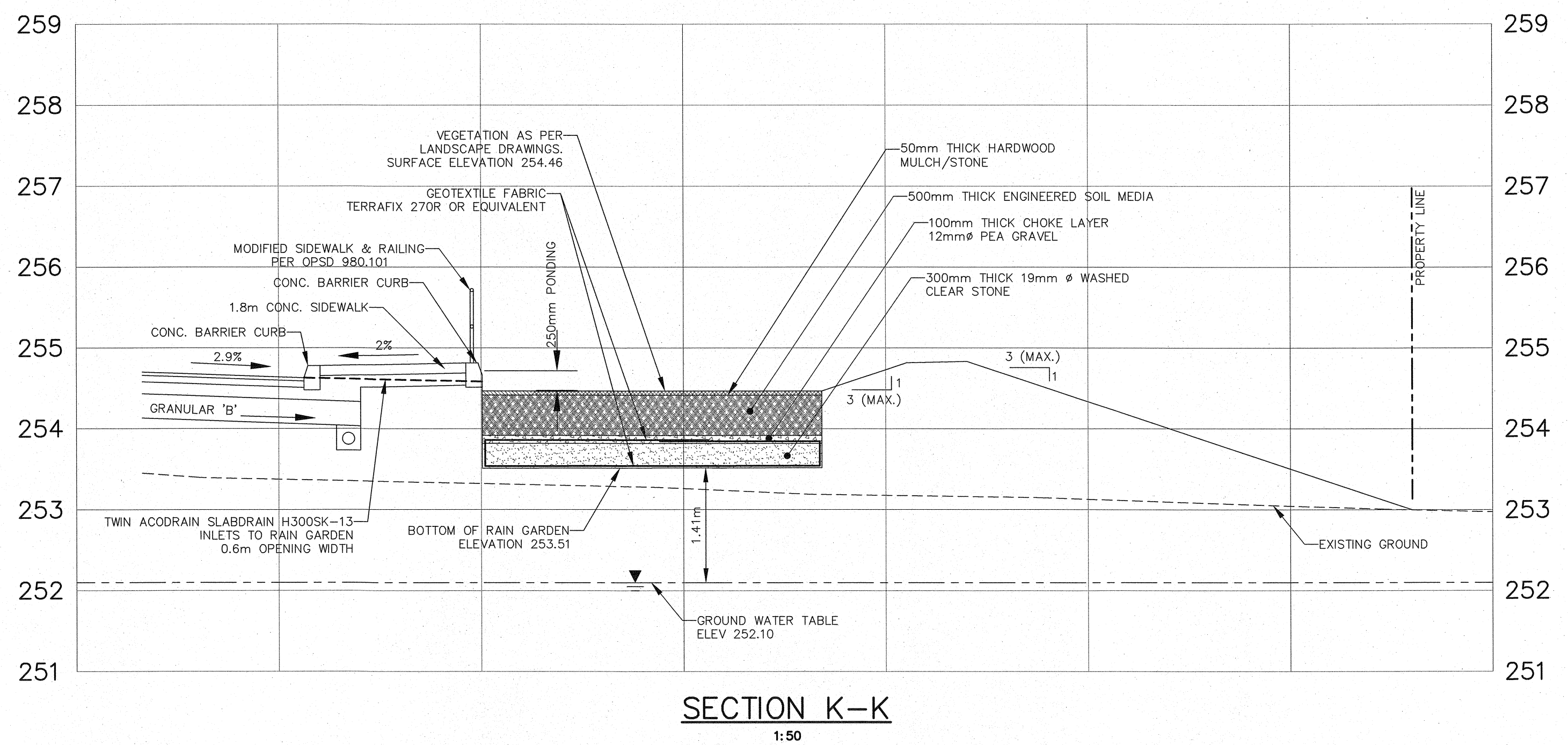
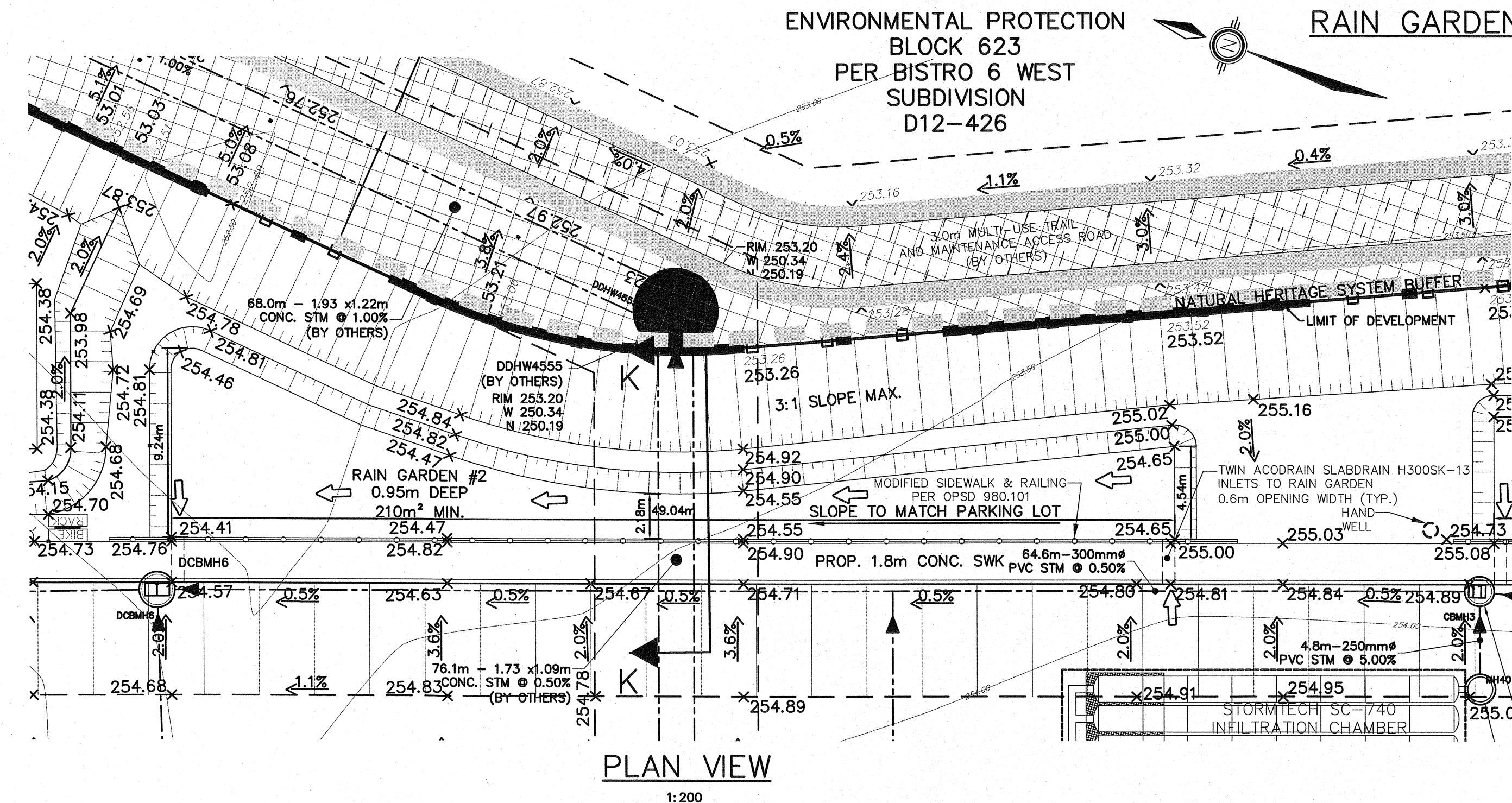
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
BUILDING H6
LID SECTIONS & DETAILS

JONES CONSULTING GROUP LTD.		229 Mapleview Dr. E. Unit 1 Barrie, ON L4N 0W5 P. 705.734.2638 F. 705.734.1058	
DESIGN	MF/JB	SCALE: AS NOTED	DATE JAN 2019
DRAWN	MG/JJH	PROJECT	DWG. NO
CHECKED	DR	PRA-17021	LID-3

RAIN GARDEN #1



RAIN GARDEN #2



FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:			
BENCHMARK NO: 0101985454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LOWER'S CREEK, 0.85M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.43M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF COPING. N4910788.889 E607264.100 ELEV 241.86			
BENCHMARK NO: 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE, 4.75 SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911610 E607799 ELEV 250.508			
BENCHMARK NO: 03120000054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 1m EAST OF HURONIA ROAD. N4910876.122 E607601.063 ELEV 248.896			
BENCHMARK NO: 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02M WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N4800876.227 E608753.980 ELEV 252.807			
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
NO.	REVISIONS	DATE	INITIAL

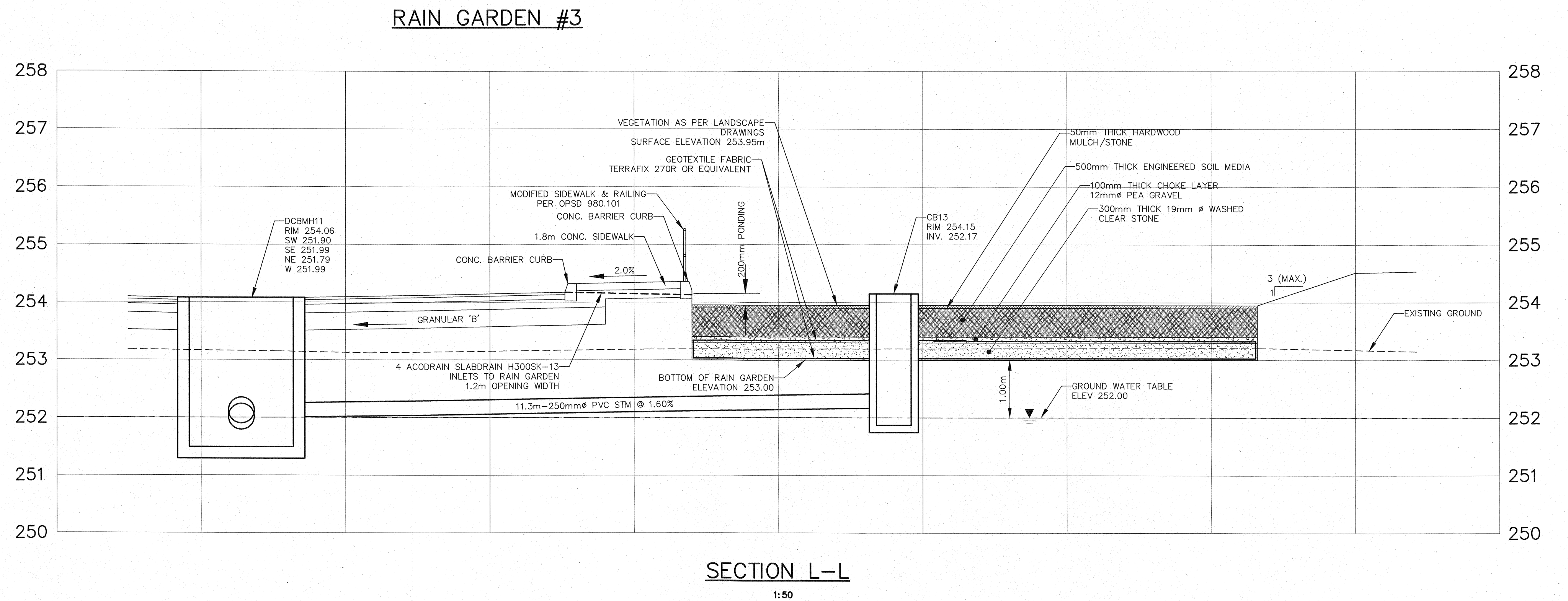


PRATT HANSEN GROUP INC.
BISTRO 6 SITE PLAN
CITY OF BARRIE
RAIN GARDEN #1 AND #2
LID SECTIONS & DETAILS

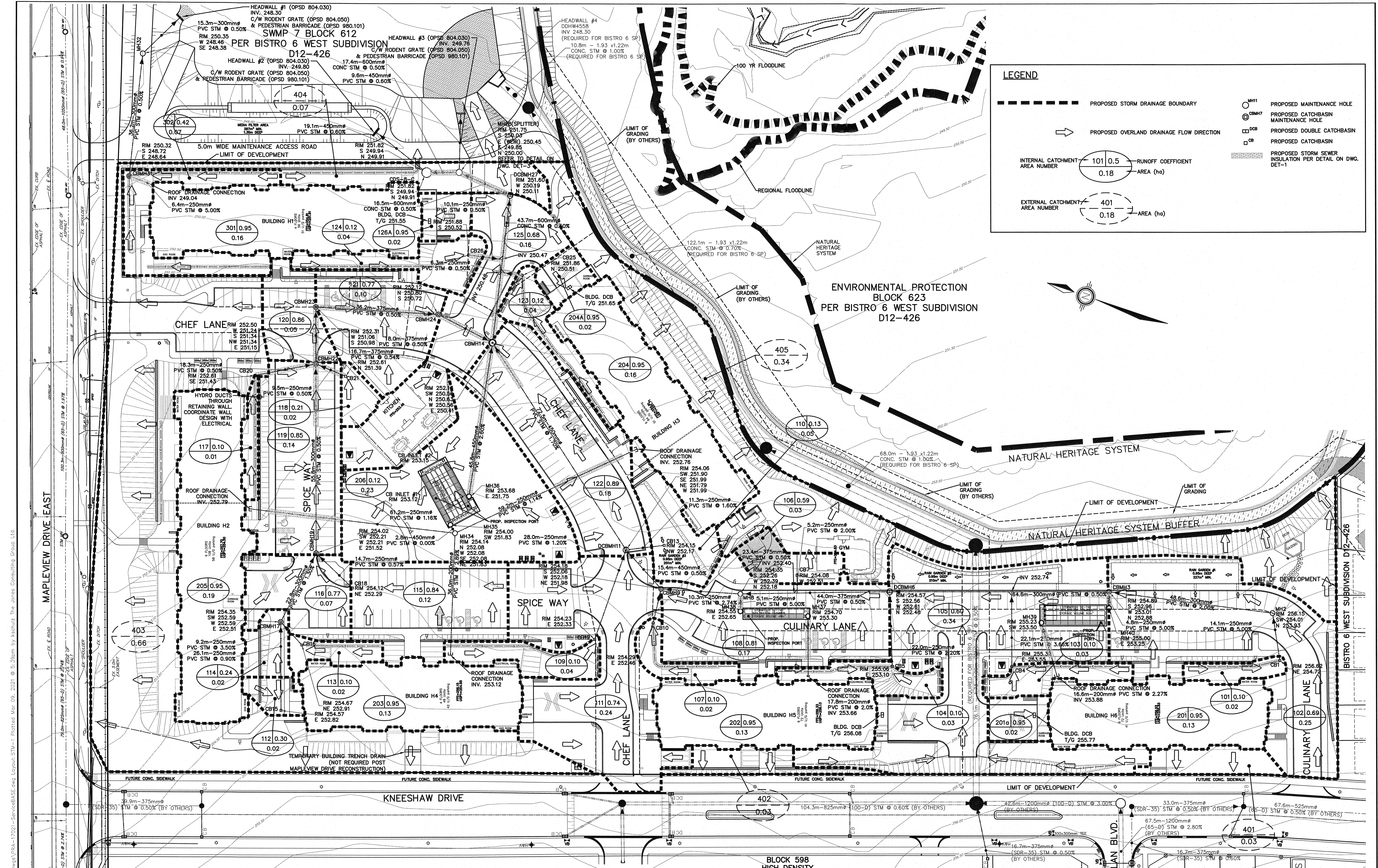


DESIGN	MF/JB	SCALE: AS NOTED	DATE	JAN 2019
DRAWN	MG/JJH	PROJECT	DWG. NO	
CHECKED	DR	PRA-17021	LID-4	

229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1058



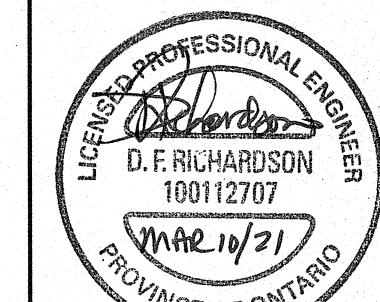
FINAL APPROVED PLAN File: D11-017-2017 Date: August 12, 2021 Barrie No. of Pages: 1	BENCHMARK: BENCHMARK NO: 0701885454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LOVER'S CREEK, 0.65M EAST OF HURONIA ROAD, TABLET IS SET HORIZONTALLY ON THE NORTH FACE, 5.45M NORTH OF CENTLINE OF 80' ROAD WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF COPING. N4910788.869 E607264.101 ELEV 241.581 BENCHMARK NO: 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180' EITHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE, FLAGPOLE BASE, 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N491610 E607799 ELEV 250.508 BENCHMARK NO: 03120080094 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 16m EAST OF HURONIA ROAD. N4910976.122 E607601.062 ELEV 248.898 BENCHMARK NO: 03120110013 LOCATED ON LOCHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N49009870.257 E608733.580 ELEV 252.807																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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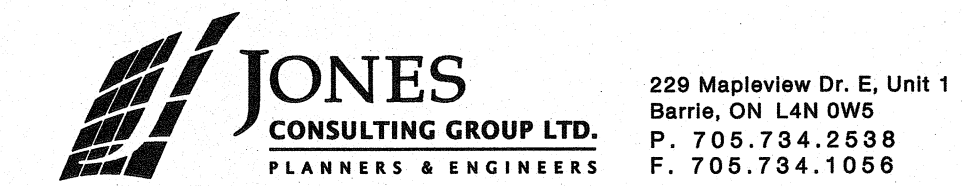
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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK: BENCHMARK NO. 01018865454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LOWERS CREEK, 0.85KM EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.45M NORTH OF CENTRELINE OF ROAD, 28CM WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF CORNER. N4910788.889 E567284.100 ELEV 241.981 BENCHMARK NO. 03120030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL. TABLET IS ON THE SOUTHWEST OF THE FLAGPOLE BASE. N4911010.607 E57799.850 ELEV 250.508 BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 10m EAST OF HURONIA ROAD, N4910788.889 E567284.100 ELEV 241.981 BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N49009870.287 E567335.860 ELEV 252.807				
6	SITE PLAN AMENDMENT	21-03-08	DR	
5	FOURTH SUBMISSION	19-08-30	DR	
4	THIRD SUBMISSION	19-05-24	DR	
3	SECOND SUBMISSION	19-01-11	DR	
2	FIRST SUBMISSION	17-07-10	DR	
NO.	REVISIONS	DATE	INITIAL	

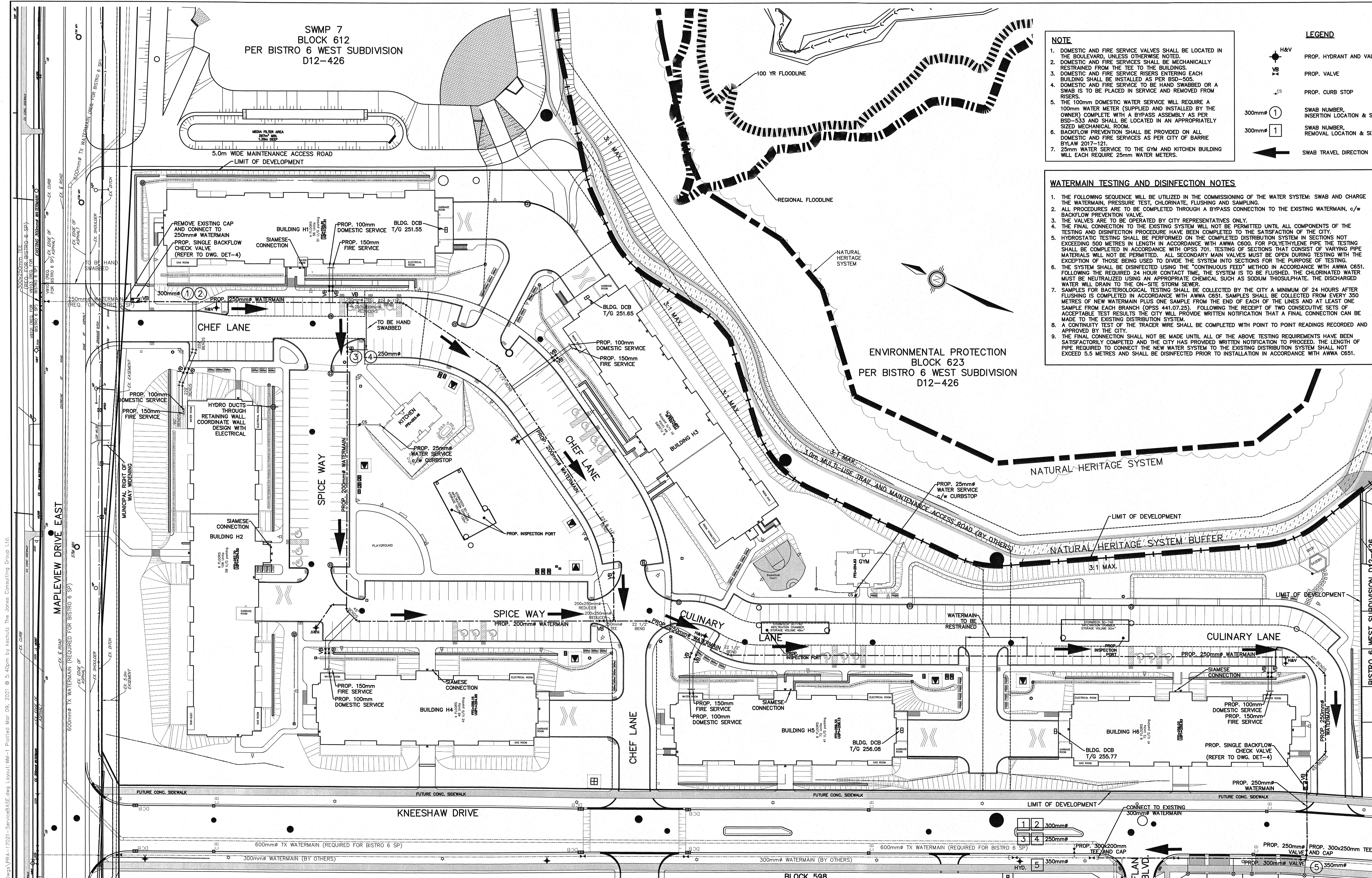


PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE



STORM DRAINAGE PLAN

DESIGN	JJH	SCALE: 1:500	DATE	MARCH 2017
DRAWN	JJH	PROJECT	PRA-17021	DWG. NO
CHECKED	DR			STM-1



NOTE

1. DOMESTIC AND FIRE SERVICE VALVES SHALL BE LOCATED IN THE BOULEVARD, UNLESS OTHERWISE NOTED.
2. DOMESTIC AND FIRE SERVICES SHALL BE MECHANICALLY RESTRAINED FROM THE TEE TO THE BUILDINGS.
3. DOMESTIC AND FIRE SERVICE RISERS ENTERING EACH BUILDING SHALL BE INSTALLED AS PER BSD-505.
4. DOMESTIC AND FIRE SERVICE TO BE HAND SWABBED OR A SWAB IS TO BE PLACED IN SERVICE AND REMOVED FROM RISERS.
5. THE 100mm DOMESTIC WATER SERVICE WILL REQUIRE A 100mm WATER METER (SUPPLIED AND INSTALLED BY THE OWNER) COMPLETE WITH A BYPASS ASSEMBLY AS PER BSD-533 AND SHALL BE LOCATED IN AN APPROPRIATELY SIZED MECHANICAL ROOM.
6. BACKFLOW PREVENTION SHALL BE PROVIDED ON ALL DOMESTIC AND FIRE SERVICES AS PER CITY OF BARRIE BYLAW 2017-121.
7. 25mm WATER SERVICE TO THE GYM AND KITCHEN BUILDING WILL EACH REQUIRE 25mm WATER METERS.

LEGEND

- PROP. HYDRANT AND VALVE
- PROP. VALVE
- PROP. CURB STOP
- SWAB NUMBER, INSERTION LOCATION & SIZE
- SWAB NUMBER, REMOVAL LOCATION & SIZE
- SWAB TRAVEL DIRECTION

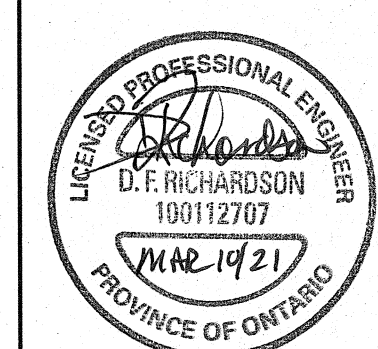
WATERMAIN TESTING AND DISINFECTION NOTES

1. THE FOLLOWING SEQUENCE WILL BE UTILIZED IN THE COMMISSIONING OF THE WATER SYSTEM: SWAB AND CHARGE THE WATERMAIN, PRESSURE TEST, CHLORINATE, FLUSHING AND SAMPLING.
2. ALL PROCEDURES ARE TO BE COMPLETED THROUGH A BYPASS CONNECTION TO THE EXISTING WATERMAIN, c/w BACKFLOW PREVENTION VALVE.
3. THE VALVES ARE TO BE OPERATED BY CITY REPRESENTATIVES ONLY.
4. THE FINAL CONNECTION TO THE EXISTING SYSTEM WILL NOT BE PERMITTED UNTIL ALL COMPONENTS OF THE TESTING AND DISINFECTION PROCEDURE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE CITY.
5. HYDROSTATIC TESTING SHALL BE PERFORMED ON THE COMPLETED DISTRIBUTION SYSTEM IN SECTIONS NOT EXCEEDING 500 METRES IN LENGTH IN ACCORDANCE WITH AWWA C600. FOR POLYETHYLENE PIPE THE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 701. TESTING OF SECTIONS THAT CONSIST OF VARYING PIPE MATERIALS WILL NOT BE PERMITTED. ALL SECONDARY MAIN VALVES MUST BE OPEN DURING TESTING WITH THE EXCEPTION OF THOSE BEING USED TO DIVIDE THE SYSTEM INTO SECTIONS FOR THE PURPOSE OF TESTING.
6. THE SYSTEM SHALL BE DISINFECTED USING THE "CONTINUOUS FEED" METHOD IN ACCORDANCE WITH AWWA C651. FOLLOWING THE REQUIRED 24 HOUR CONTACT TIME, THE SYSTEM IS TO BE FLUSHED. THE CHLORINATED WATER MUST BE NEUTRALIZED USING AN APPROPRIATE CHEMICAL SUCH AS SODIUM THIOSULPHATE. THE DISCHARGED WATER WILL DRAIN TO THE ON-SITE STORM SEWER.
7. SAMPLES FOR BACTERIOLOGICAL TESTING SHALL BE COLLECTED BY THE CITY A MINIMUM OF 24 HOURS AFTER FLUSHING IS COMPLETED IN ACCORDANCE WITH AWWA C651. SAMPLES SHALL BE COLLECTED FROM EVERY 350 METRES OF NEW WATERMAIN PLUS ONE SAMPLE FROM THE END OF EACH OF THE LINES AND AT LEAST ONE SAMPLE FROM EACH BRANCH (OPSS 441.07.25). FOLLOWING THE RECEIPT OF TWO CONSECUTIVE SETS OF ACCEPTABLE TEST RESULTS THE CITY WILL PROVIDE WRITTEN NOTIFICATION THAT A FINAL CONNECTION CAN BE MADE TO THE EXISTING DISTRIBUTION SYSTEM.
8. A CONTINUITY TEST OF THE TRACER WIRE SHALL BE COMPLETED WITH POINT TO POINT READINGS RECORDED AND APPROVED BY THE CITY.
9. THE FINAL CONNECTION SHALL NOT BE MADE UNTIL ALL OF THE ABOVE TESTING REQUIREMENTS HAVE BEEN SATISFACTORILY COMPLETED AND THE CITY HAS PROVIDED WRITTEN NOTIFICATION TO PROCEED. THE LENGTH OF PIPE REQUIRED TO CONNECT THE NEW WATER SYSTEM TO THE EXISTING DISTRIBUTION SYSTEM SHALL NOT EXCEED 5.5 METRES AND SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651.

6: Eng - 3D/PRA - 17021-ServiceArea.dwg Layout: WM-1 Plotted: Mar 09, 2021 @ 5:40pm by: schultz, The Jones Consulting Group Ltd.

FINAL APPROVED PLAN
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Date: August 12, 2021
No. of Pages: 1

BENCHMARK: BENCHMARK NO: 0101985494 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE OVER LOWER'S CREEK, 0.500M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 3.40M NORTH OF CENTRELINE OF ROAD, 20CM WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF CURBING. 14910788.889 ELEV 248.100 BENCHMARK NO: 0312003029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE, 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. 14911610 ELEV 250.508 BENCHMARK NO: 0312008054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 11m EAST OF HURONIA ROAD. 1491078152 ELEV 250.703 ELEV 248.895 BENCHMARK NO: 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02m WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. 149008970.297 ELEV 252.807				
6	SITE PLAN AMENDMENT	21-03-08	DR	
5	FOURTH SUBMISSION	19-08-30	DR	
4	THIRD SUBMISSION	19-05-24	DR	
3	SECOND SUBMISSION	19-01-11	DR	
2	FIRST SUBMISSION	17-07-10	DR	
NO.	REVISIONS	DATE	INITIAL	

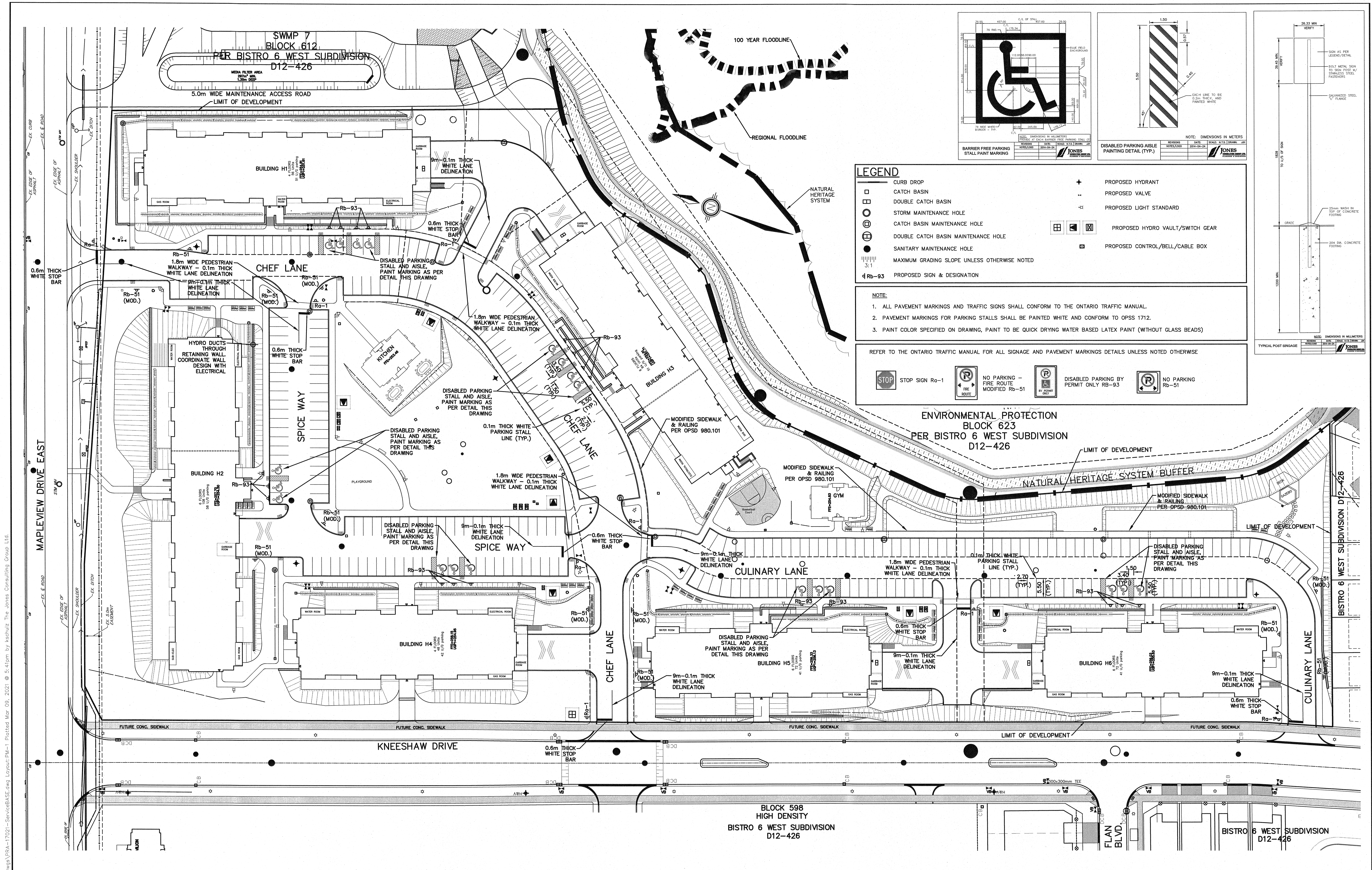


PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE
WATERMAIN SWABBING PLAN

JONES
CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W6
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DESIGN JH	SCALE: 1:500	DATE DEC 2018
DRAWN CG	PROJECT PRA-17021	DWG. NO WM-1
CHECKED MF		

BISTRO 6 WEST SUBDIVISION D12-426

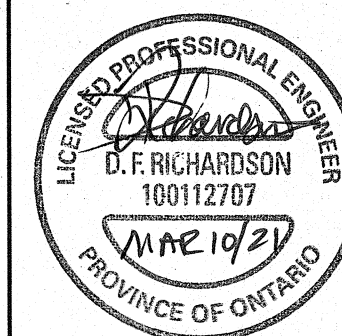


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BENCHMARK:

BENCHMARK NO. 0101885454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE OVER LOVER'S CREEK, 0.05M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.0M NORTH OF CENTRELINE OF ROAD, 3.0M WEST OF THE NORTHEAST END OF BRIDGE, 19CM TOP OF COPING, N4910788.889 ELEV 250.100
BENCHMARK NO. 03120030229 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE, N4911610 ELEV 250.508
BENCHMARK NO. 03120080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 10M EAST OF HURONIA ROAD, N4910788.122 ELEV 250.100
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02KM WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION, N4900875.297 ELEV 252.807

NO.	REVISIONS	DATE	INITIAL
6	SITE PLAN AMENDMENT	21-03-08	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE

PAVEMENT MARKING
and SIGNAGE PLAN



DESIGN	JJH	SCALE: 1:500	DATE	JAN 2019
DRAWN	JJH	PROJECT	PRA-17021	DWG. NO
CHECKED	DR			PM-1

229 Mapleview Dr. E. Unit 1
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