

GENERAL NOTES

1. ALL WORK TO CONFORM TO THE LATEST TOWN OF NAGARA--ON--THE--LAKE STANDARDS AND REQUIREMENTS, REGIONAL MUNICIPALITY OF NAGARA STANDARDS, LATEST ADOPTED BY NAGARA--ON--THE--LAKE COUNCIL, AND THE STANDARD SPECIFICATIONS OF THE ONTARIO BUILDING CODE (LESS ANY OTHERS NOTED ON THE DRAWINGS).
2. THE CONTRACTOR SHALL COMPLY WITH THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATION FOR CONSTRUCTION PROJECTS; THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
3. THE CONTRACTOR SHALL COMPLY WITH THE CURRENT ONTARIO BUILDING CODE, IN ACCORDANCE WITH THE CURRENT ONTARIO TAPED MANUAL BOOK 7: TEMPORARY STRUCTURES FIELD EDITION.
4. ALL TRENCHES WITHIN THE EXISTING RIGHT--OF--WAY PAVED AREAS SHALL BE BACKFILLED WITH GRANULAR A AND SHALL BE COMPACTED TO 100% DENS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR OF TECHNICAL SERVICES, PROJECTS DIVISION, THE EXISTING ROADWAY AND SURROUNDING AREAS. THE CONTRACTOR OR DEVELOPER SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWN INCLUDED BUT NOT LIMITED TO ROAD OCCUPANCY PERMITS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR 48 HOURS BEFORE EXCAVATION, INSTALLATION OR BACKFILL.
7. THE CONTRACTOR'S COMPLETENESS OF EXISTING SERVICES/UTILITIES SHOWN ON THE DRAWINGS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AT LEAST FORTY--EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY LOCATION WORK. THE SERVICE PROVIDER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FIELD CUSTODIANS ON SITE.
8. THE DRAWINGS INDICATING EXISTING SERVICES, AND DO NOT INDICATE LOCATIONS, THESE SERVICES SHALL BE BY ADDITIONAL SURVEY, BY ABANDONED BUILDING FOOTPRINTS, OR OTHER EXISTING FACILITIES NOT SHOWN ON THE DRAWINGS).
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SIZE OF ALL SERVICES AND STRUCTURES AND SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING THEM AGAINST DAMAGE ASSUMING ALL LIABILITIES FOR DAMAGE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY CONFLICT WHICH THE EXISTING SERVICES MAY CREATE WITH THE PROPOSED WORK AND SHALL SCHEDULE CONSTRUCTION OF PROTECTIVE STRUCTURES PRIOR TO ANY CONFLICTING WORK.
11. MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC AT ALL TIMES.
12. ALL SERVICES AND POLES TO BE SUPPORTED AS REQUIRED.
13. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES BEFORE PROCEEDING WITH ANY WORK.
14. THE CONTRACTOR SHALL BE THE SOLE OWNER OF ALL EXCESS MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXCESS MATERIAL AND BACKFILL WITHIN 1M FROM MANHOLES, VALVE CHAMBERS AND CATCHBASINS, AND UNPAVED DRIVE OR IMPROVED BACKFILL SHALL BE USED FOR ALL OTHER LANDSCAPE AREAS.
15. PROTECT ALL TREES FROM DAMAGE. SEE THE ARBORIST/LANDSCAPE DRAWINGS AND REPORT FOR DETAILS.
16. REMOVE CATCH BASINS PER OPS 510, INCLUDING ADOPTED COMPACTED BACKFILL, AND FILLING IN WITH OPS 102 INCLUDING SEALING OF PIPES AND FILLING IT WITH 15M CONCRETE OR CURB.
17. REMOVE ALL EXISTING MANHOLE, CATCHBASIN AND VALVEBENES TO PROPOSED GRADE.
18. RELOCATE EXISTING SERVICES WHERE REQUIRED TO CONSTRUCT PROPOSED INFRASTRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SERVICES AND DOWN STREAM WILL BE REQUIRED, PROVISION FOR WET WEATHER SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
19. WHERE THE STABILITY, SAFETY OR FUNCTION OF THE EXISTING ROADWAY OR UNDERGROUND FACILITIES MAY BE IMPAIRED DUE TO THE CONTRACTOR'S METHOD OF OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING ROADWAY, BRIDGES, SHORING AND DRIVING PILES WHERE NECESSARY. CONSTRUCTION OF SHORING, BRACING AND PROTECTIVE SCHEMES SHALL CONFORM TO OPS 538 AND OPS 539.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD MEASUREMENT AND LAYOUT VERIFICATION BY THE CONTRACTOR.
22. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTH AND LEVEL THE EXISTING PAVING OR EARTHWORK WITH NEW.
23. EXPANSION JOINT FILLER SHALL BE PLACED WHERE PAVEMENT MEETS.
24. PROTECTORS--INCLUDING BUT NOT LIMITED TO, CURBS, BOLLARDS, BRIDGING COLUMNS, STAIRS AND AT OTHER CONDITIONS SHOWN ON THE DRAWINGS.
25. EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES AND WITHIN THE PROTECTION ZONE OF ANY UTILITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCLUDING DURING CONSTRUCTION OPERATION AT NO COST TO THE UTILITY COMPANIES OR THE OWNER.

LAYOUT AND MATERIALS

1. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN METERS, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.
2. CONSTRUCTION LAYOUT BY CONTRACTOR.
3. ALL HORIZONTAL DIMENSIONS TO CENTER OF OBJECT OR TO QUITTER OF CURVE.
4. LASER ALIGNMENT CONTROL IS MANDATORY, AS-BUILT OF PIPE INVERT ELEVATIONS WITH CORRESPONDING STATIONS SHALL BE RECORDED PRIOR TO BACK FILLING OF TRENCH.
5. AS-BUILT ELEVATION OF THE CHANNEL SHALL BE PROVIDED AT 20M INTERVALS, AND AT ALL CHANGES IN GRADE AND VERTICAL CURVE.
6. ALL ELEVATIONS SHALL BE TAKEN FROM THE SAME POINT OF BENCHMARK, EITHER UPSTREAM OR DOWNSTREAM OF EACH SANITARY OR STORM MAHOLE, AND WATERMAIN VALVE CHAMBER.
7. HORIZONTAL AND VERTICAL CONTROL SHALL BE PUBLISHED BENCHMARKS AND HORIZONTAL CONTROL SHALL BE THE CENTER LINE OF THE ROAD.
7. ALL LINE AND GRADE WORK PER DRAWING AND SPECIFICATION SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR.

DEWATERING AND SOIL STABILIZATION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AND SOIL STABILIZATION

SANITARY SEWERS

1. SERVICE CONNECTION PVC PIPE TO BE AS PER DR 28.04 B1822-06 CERTIFIED ASTM D3034-04A.
2. MINIMUM COVER FOR FLEXIBLE PIPE SHALL BE AS PER DR 802.010, 802.013 OR 802.014.
3. MAINTENANCE HOLES AS PER STD STANDARDS, 701.010 (1200mm), 701.011 (1500mm), 701.012 (1800mm), 701.013 (2400mm) AND 701.014 (3000mm), FRAME AND COVER AS PER STD STANDARDS.
4. BENCHING SHALL BE AS PER STD 701.021.
5. MINIMUM COVER FOR RIGID PIPE SHALL BE AS PER DR 2.4 AND MAXIMUM OF 3.0m DEEP MEASURED FROM THE FINAL GRADE AT THE STREET LINE.
6. SANITARY MAINS TRENCH HOLE SHALL HAVE WATERPROOF FRAME AND COVER IN PONING RIGID AS PER STD 701.021.
7. LATERAL CONNECTIONS TO SEWERS SHALL BE COR DRILLING AND FACTORY MADE SADDLES.
8. ALL CONNECTIONS TO SEWERS SHALL BE MADE BY THE ABOVE METHODS.
9. GRANULAR MATERIALS INCLUDING SEWER EMBEDMENT SHALL NOT CONSIST OF RECLAIMED/RECYCLED MATERIAL.
10. ALL SEWER BEDDING (OR BEDDING) FOR SEWER PIPE BEDDING/BACKFILL WILL NOT BE PERMITTED UNLESS REQUIRED AS A RESULT OF A SPECIFIC TRENCH CONDITIONS AND SUPPORTED WITH A RECOMMENDATION FROM A GEOTECHNICAL ENGINEER WHICH WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SERVICE ENDS SHALL BE PROTECTED BY MITIGATION.
11. CLEAN AND VIDEO INSPECT ALL SEWER AND SERVICE CONNECTIONS PRIOR TO FINAL RESTORATION.

WATERMAINS

- ALL POLYETHYLENE CHLORIDE (PVC) PIPES, RANGING IN SIZE FROM 100 mm THROUGH 300 mm IN DIAMETER SHALL BE PRESSURE CLASS 25, 18 AND 18 MANUFACTURED IN ACCORDANCE WITH ASTM D1675-90 AND TO CSA B137-3-90 AND SHALL HAVE CAST IRON OUTSIDE DIAMETER DIMENSIONS.
2. BEDDING FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 802.010, 802.011 OR 802.014.
3. WATER MAINS SHALL BE 150 mm OR 200 mm DIAMETER FINISHED GRADE.
4. SERVICE CONNECTIONS SHALL BE 25mm DIAMETER AND CONFORM TO ASTM B88-03 (ASTM B88M-03) FOR METRIC SIZES TYPE "K" SOFT COPPER.
5. VALVES SHALL BE 150 mm OR 200 mm DIAMETER AND SHALL BE BELOW FINISHED GRADE.
6. ALL HYDRANTS SHALL CONFORM TO OPSD 401 AND OPSD 1105.01. HYDRANTS SHALL HAVE A MINIMUM 100 mm RISE ABOVE FINISHED GRADE AND SHALL BE 150 mm OR 200 mm DIAMETER WITH OPERATING TURN "OPEN LEFT". HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH THE TOWN STANDARDS.
7. VALVE BOXES AND VALVE BOXES TO BE LOCATED AT STREET LINE. VALVE BOXES SHALL BE SET FLUSH WITH GRADE AND PROTECTED FROM ALL DAMAGE.
8. VALVES SHALL HAVE 150 mm OR 200 mm DIAMETER. VALVE SHALL BE IRON-BODY WITH RESILIENT-SEALED GATE VALVES, MECHANICAL CONTROL AND SHALL OPEN LEFT—HAND WITH 50mm square OPERATING TURN. VALVE SHALL BE CAST IRON, SIDE TYPE.
9. VALVES SHALL BE 150 mm OR 200 mm DIAMETER. VALVES SHALL BE CAST IRON, SIDE TYPE, CROSSES, REDUCERS AND VALVES FOR ALL WATERMAIN SIZES.
10. THE FLEX HORIZONTAL WATER MAINS SHALL BE 150 mm OR 200 mm DIAMETER. TO BE CONCRETE TRUCKER BLOCKS AS PER OPSD 103.013 & OPSD 1103.020.
11. WATERMAINS MUST FOLLOW THE MINISTRY OF THE ENVIRONMENT PROCEDURES THAT GOVERN THE INSTALLATION OF WATER MAINS. THE MINIMUM CLEARANCE TO EXISTING UTILITIES SHALL BE 0.5 METRE AND HORIZONTAL SEPARATION OF 2.5 METRES MUST BE MAINTAINED BETWEEN WATER MAINS.
12. 11.0 kg zinc SACRIFICIAL ANODES TO BE INSTALLED FOR ALL METAL PIPES, APPURTENANCES AND FITTINGS AND 5.5 kg zinc SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL WATER MAINS.
13. TRACER WIRE SHALL BE TO GAUGE SEVEN STRAND, INSULATED COPPER WIRE WITH 60 ML OF COBALT BLENDED WITH 1000 GRAMS OF CARBON BLACK. TRACER WIRE SHALL BE USED FOR BURIAL APPLICATIONS AND SHALL BE BROUGHT THE SURFACE AT ALL HYDRANTS AND VALVES.
14. WATERMAINS TO BE INSTALLED TO GRADE AS SHOWN ON APPROVED PLANS, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHEN REQUIRED BY INSPECTOR.
15. INSULATE WATERMAIN WHERE COVER IS LESS THAN 1.8 m.
16. ALL SERVICE CONNECTION TO BE MARKED WITH A 38 mm x 89 mm x 24 mm WOOD STAKE.

ROAD / PAVEMENTS

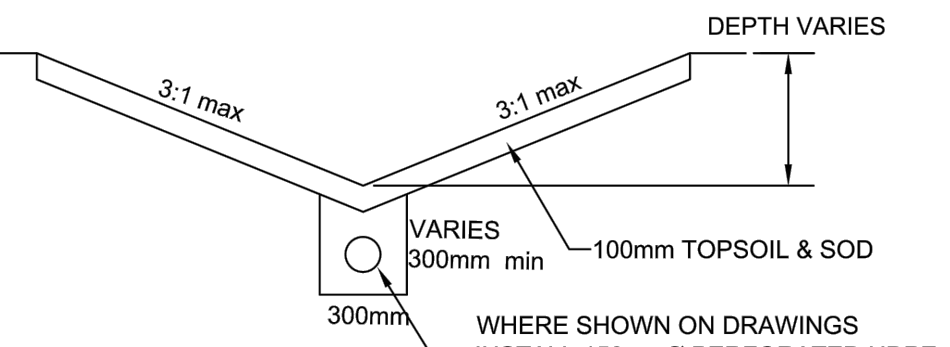
1. WHERE NEW ASPHALT MATCHES EXISTING ASPHALT, GRIND EXISTING ASPHALT A MINIMUM OF 300mm wide and 40mm deep FOR KEYING. APPLY HOT RUBBER SEALING COMPOUND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. THE CONCRETE CURB, CONCRETE SIDEWALK (IF APPLICABLE) AND ALL RESTORATION ALONG ADOPTING RIGH-OF-WAY TO THE SITE MUST BE CONSTRUCTED AND CARRIED OUT IN ACCORDANCE WITH ALL APPLICABLE AND CURRENT TOWN STANDARDS.
3. PRIOR TO PAVING, REMOVE UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.
4. CRUSHED LIME STONE SHALL BE USED FOR ALL GRANULAR BASE MATERIAL BELOW ASPHALT SURFACES.
5. GRANULAR ROAD BASE SHALL BE COMPACTED TO 100% SPND.
6. ASPHALT SHALL BE LAYED TO 50mm TO 90mm DEPTH.
7. REFER TO SPDS 310 FOR PAVEMENT COMPACTION REQUIREMENTS.
8. SAW CUT EXISTING PAVED SURFACES FULL DEPTH AND IN STRAIGHT LINES, WHERE PROPOSED ASPHALT MATCHES EXISTING ASPHALT.
9. ALL DISTURBED ASPHALT PAVEMENT AREAS ALONG CENTRE STREET, GAGE STREET, AND KING STREET SHALL BE RESTORED TO MATCH EXISTING PAVEMENT STRUCTURE OR:
 - ~40mm HL8 H/L
 - ~50mm HL8 H/L
 - ~40mm GRANULAR A (COMPACTED TO 100% SPND)
10. WHERE TO EXISTING DRIVEWAY WALL IMPACT TREES TO BE RETAINED, GEORGD TO BE UTILIZED TO MINIMIZE DEPTH OF DRIVEWAY. GEORGD DRIVEWAY TO BE DESIGNED BY ENGINEER OR MANUFACTURER.
11. ON-SITE ACCESS PAVEMENT SHALL COMPRISE OF:
 - ~40mm HL8
 - ~50mm HL8
 - ~150mm GRANULAR A
 - ~150mm GRANULAR B

GRADING

1. ALL AREA GRADING AND RESULTING DRAINAGE PATTERNS SHALL NOT ADVERSELY AFFECT ADJACENT LANDS.
2. MINIMUM GENERALLY ACCEPTED GRADIENT = 2.0%.
3. MAXIMUM GENERALLY ACCEPTED GRADIENT = 5.0%.
4. MAXIMUM ACCEPTABLE GRADIENTS TO ADJACENT TOWNSHIPS TO ADJACENT VERTICAL (1:1).
5. NO ALTERATIONS TO EXISTING BOUNDARY DEFINITIONS TO PART LANT VERTICAL SHALL BE UNDERTAKEN UNLESS WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY OWNER IS OBTAINED.
6. ALL SUBMITTALS MUST BE FORMALLY ACCEPTABLE TO THE TOWN.
7. MINIMUM SLOPE GRADIENT = 1.0%.
8. MINIMUM SLOPE SHALL BE 15%.
9. ALL SLOPES SHALL BE DESIGNED TO MINIMIZE IN EXCESS OF 15% SLOPE SHALL BE DESIGNED TO INCORPORATE EROSION PROTECTION.
10. THE MINIMUM GRADIENT ON ANY DRIVEWAY SHALL BE 2.0%. THE MAXIMUM DRIVEWAY GRADIENT IS 5.0%.
11. RETAINING WALLS SHALL BE CONSTRUCTED ENTIRELY ON THE UPPER PROPERTY SO THAT THE EXISTING DRIVEWAY REMAINS AVAILABLE TO ALL PROPERTIES ADJACENT.
12. MAXIMUM PONDING DEPTH 0.3 METERS.
13. PROPOSED SLOPE ELEVATIONS WILL BE SHOWN FOR ASPHALT, LANDSCAPE OR CONCRETE AREAS.
14. SLOPES OTHER THAN 1:1 SHALL BE 1:1.5 TO 1:2.5. 0.15m AND ABOVE ASPHALT SHALL BE 1:1.
15. EXCEPT AT CURB DEPRESSIONS AND WHEEL TRAIL CHAMPS.
16. FINISHED LOT GRADIENTS SHALL BE 1:1 TO 1:2.5 TO 1:3.0 TO 1:4.0 TO 1:5.0 TO 1:6.0 TO 1:7.0 TO 1:8.0 TO 1:9.0 TO 1:10.0 TO 1:11.0 TO 1:12.0 TO 1:13.0 TO 1:14.0 TO 1:15.0 TO 1:16.0 TO 1:17.0 TO 1:18.0 TO 1:19.0 TO 1:20.0 TO 1:21.0 TO 1:22.0 TO 1:23.0 TO 1:24.0 TO 1:25.0 TO 1:26.0 TO 1:27.0 TO 1:28.0 TO 1:29.0 TO 1:30.0 TO 1:31.0 TO 1:32.0 TO 1:33.0 TO 1:34.0 TO 1:35.0 TO 1:36.0 TO 1:37.0 TO 1:38.0 TO 1:39.0 TO 1:40.0 TO 1:41.0 TO 1:42.0 TO 1:43.0 TO 1:44.0 TO 1:45.0 TO 1:46.0 TO 1:47.0 TO 1:48.0 TO 1:49.0 TO 1:50.0 TO 1:51.0 TO 1:52.0 TO 1:53.0 TO 1:54.0 TO 1:55.0 TO 1:56.0 TO 1:57.0 TO 1:58.0 TO 1:59.0 TO 1:60.0 TO 1:61.0 TO 1:62.0 TO 1:63.0 TO 1:64.0 TO 1:65.0 TO 1:66.0 TO 1:67.0 TO 1:68.0 TO 1:69.0 TO 1:70.0 TO 1:71.0 TO 1:72.0 TO 1:73.0 TO 1:74.0 TO 1:75.0 TO 1:76.0 TO 1:77.0 TO 1:78.0 TO 1:79.0 TO 1:80.0 TO 1:81.0 TO 1:82.0 TO 1:83.0 TO 1:84.0 TO 1:85.0 TO 1:86.0 TO 1:87.0 TO 1:88.0 TO 1:89.0 TO 1:90.0 TO 1:91.0 TO 1:92.0 TO 1:93.0 TO 1:94.0 TO 1:95.0 TO 1:96.0 TO 1:97.0 TO 1:98.0 TO 1:99.0 TO 1:100.0 TO 1:101.0 TO 1:102.0 TO 1:103.0 TO 1:104.0 TO 1:105.0 TO 1:106.0 TO 1:107.0 TO 1:108.0 TO 1:109.0 TO 1:110.0 TO 1:111.0 TO 1:112.0 TO 1:113.0 TO 1:114.0 TO 1:115.0 TO 1:116.0 TO 1:117.0 TO 1:118.0 TO 1:119.0 TO 1:120.0 TO 1:121.0 TO 1:122.0 TO 1:123.0 TO 1:124.0 TO 1:125.0 TO 1:126.0 TO 1:127.0 TO 1:128.0 TO 1:129.0 TO 1:130.0 TO 1:131.0 TO 1:132.0 TO 1:133.0 TO 1:134.0 TO 1:135.0 TO 1:136.0 TO 1:137.0 TO 1:138.0 TO 1:139.0 TO 1:140.0 TO 1:141.0 TO 1:142.0 TO 1:143.0 TO 1:144.0 TO 1:145.0 TO 1:146.0 TO 1:147.0 TO 1:148.0 TO 1:149.0 TO 1:150.0 TO 1:151.0 TO 1:152.0 TO 1:153.0 TO 1:154.0 TO 1:155.0 TO 1:156.0 TO 1:157.0 TO 1:158.0 TO 1:159.0 TO 1:160.0 TO 1:161.0 TO 1:162.0 TO 1:163.0 TO 1:164.0 TO 1:165.0 TO 1:166.0 TO 1:167.0 TO 1:168.0 TO 1:169.0 TO 1:170.0 TO 1:171.0 TO 1:172.0 TO 1:173.0 TO 1:174.0 TO 1:175.0 TO 1:176.0 TO 1:177.0 TO 1:178.0 TO 1:179.0 TO 1:180.0 TO 1:181.0 TO 1:182.0 TO 1:183.0 TO 1:184.0 TO 1:185.0 TO 1:186.0 TO 1:187.0 TO 1:188.0 TO 1:189.0 TO 1:190.0 TO 1:191.0 TO 1:192.0 TO 1:193.0 TO 1:194.0 TO 1:195.0 TO 1:196.0 TO 1:197.0 TO 1:198.0 TO 1:199.0 TO 1:200.0 TO 1:201.0 TO 1:202.0 TO 1:203.0 TO 1:204.0 TO 1:205.0 TO 1:206.0 TO 1:207.0 TO 1:208.0 TO 1:209.0 TO 1:210.0 TO 1:211.0 TO 1:212.0 TO 1:213.0 TO 1:214.0 TO 1:215.0 TO 1:216.0 TO 1:217.0 TO 1:218.0 TO 1:219.0 TO 1:220.0 TO 1:221.0 TO 1:222.0 TO 1:223.0 TO 1:224.0 TO 1:225.0 TO 1:226.0 TO 1:227.0 TO 1:228.0 TO 1:229.0 TO 1:230.0 TO 1:231.0 TO 1:232.0 TO 1:233.0 TO 1:234.0 TO 1:235.0 TO 1:236.0 TO 1:237.0 TO 1:238.0 TO 1:239.0 TO 1:240.0 TO 1:241.0 TO 1:242.0 TO 1:243.0 TO 1:244.0 TO 1:245.0 TO 1:246.0 TO 1:247.0 TO 1:248.0 TO 1:249.0 TO 1:250.0 TO 1:251.0 TO 1:252.0 TO 1:253.0 TO 1:254.0 TO 1:255.0 TO 1:256.0 TO 1:257.0 TO 1:258.0 TO 1:259.0 TO 1:260.0 TO 1:261.0 TO 1:262.0 TO 1:263.0 TO 1:264.0 TO 1:265.0 TO 1:266.0 TO 1:267.0 TO 1:268.0 TO 1:269.0 TO 1:270.0 TO 1:271.0 TO 1:272.0 TO 1:273.0 TO 1:274.0 TO 1:275.0 TO 1:276.0 TO 1:277.0 TO 1:278.0 TO 1:279.0 TO 1:280.0 TO 1:281.0 TO 1:282.0 TO 1:283.0 TO 1:284.0 TO 1:285.0 TO 1:286.0 TO 1:287.0 TO 1:288.0 TO 1:289.0 TO 1:290.0 TO 1:291.0 TO 1:292.0 TO 1:293.0 TO 1:294.0 TO 1:295.0 TO 1:296.0 TO 1:297.0 TO 1:298.0 TO 1:299.0 TO 1:300.0 TO 1:301.0 TO 1:302.0 TO 1:303.0 TO 1:304.0 TO 1:305.0 TO 1:306.0 TO 1:307.0 TO 1:308.0 TO 1:309.0 TO 1:310.0 TO 1:311.0 TO 1:312.0 TO 1:313.0 TO 1:314.0 TO 1:315.0 TO 1:316.0 TO 1:317.0 TO 1:318.0 TO 1:319.0 TO 1:320.0 TO 1:321.0 TO 1:322.0 TO 1:323.0 TO 1:324.0 TO 1:325.0 TO 1:326.0 TO 1:327.0 TO 1:328.0 TO 1:329.0 TO 1:330.0 TO 1:331.0 TO 1:332.0 TO 1:333.0 TO 1:334.0 TO 1:335.0 TO 1:336.0 TO 1:337.0 TO 1:338.0 TO 1:339.0 TO 1:340.0 TO 1:341.0 TO 1:342.0 TO 1:343.0 TO 1:344.0 TO 1:345.0 TO 1:346.0 TO 1:347.0 TO 1:348.0 TO 1:349.0 TO 1:350.0 TO 1:351.0 TO 1:352.0 TO 1:353.0 TO 1:354.0 TO 1:355.0 TO 1:356.0 TO 1:357.0 TO 1:358.0 TO 1:359.0 TO 1:360.0 TO 1:361.0 TO 1:362.0 TO 1:363.0 TO 1:364.0 TO 1:365.0 TO 1:366.0 TO 1:367.0 TO 1:368.0 TO 1:369.0 TO 1:370.0 TO 1:371.0 TO 1:372.0 TO 1:373.0 TO 1:374.0 TO 1:375.0 TO 1:376.0 TO 1:377.0 TO 1:378.0 TO 1:379.0 TO 1:380.0 TO 1:381.0 TO 1:382.0 TO 1:383.0 TO 1:384.0 TO 1:385.0 TO 1:386.0 TO 1:387.0 TO 1:388.0 TO 1:389.0 TO 1:390.0 TO 1:391.0 TO 1:392.0 TO 1:393.0 TO 1:394.0 TO 1:395.0 TO 1:396.0 TO 1:397.0 TO 1:398.0 TO 1:399.0 TO 1:400.0 TO 1:401.0 TO 1:402.0 TO 1:403.0 TO 1:404.0 TO 1:405.0 TO 1:406.0 TO 1:407.0 TO 1:408.0 TO 1:409.0 TO 1:410.0 TO 1:411.0 TO

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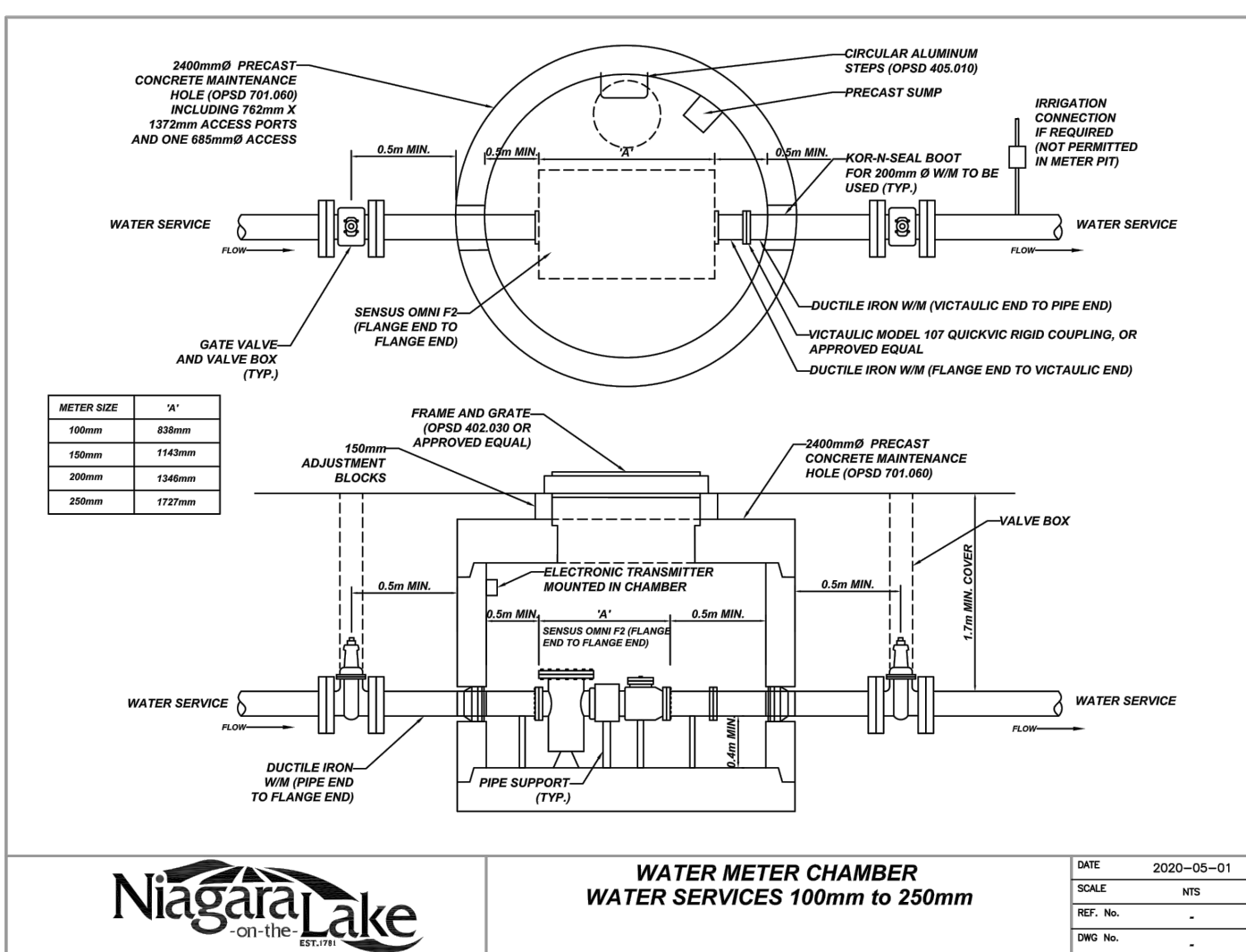
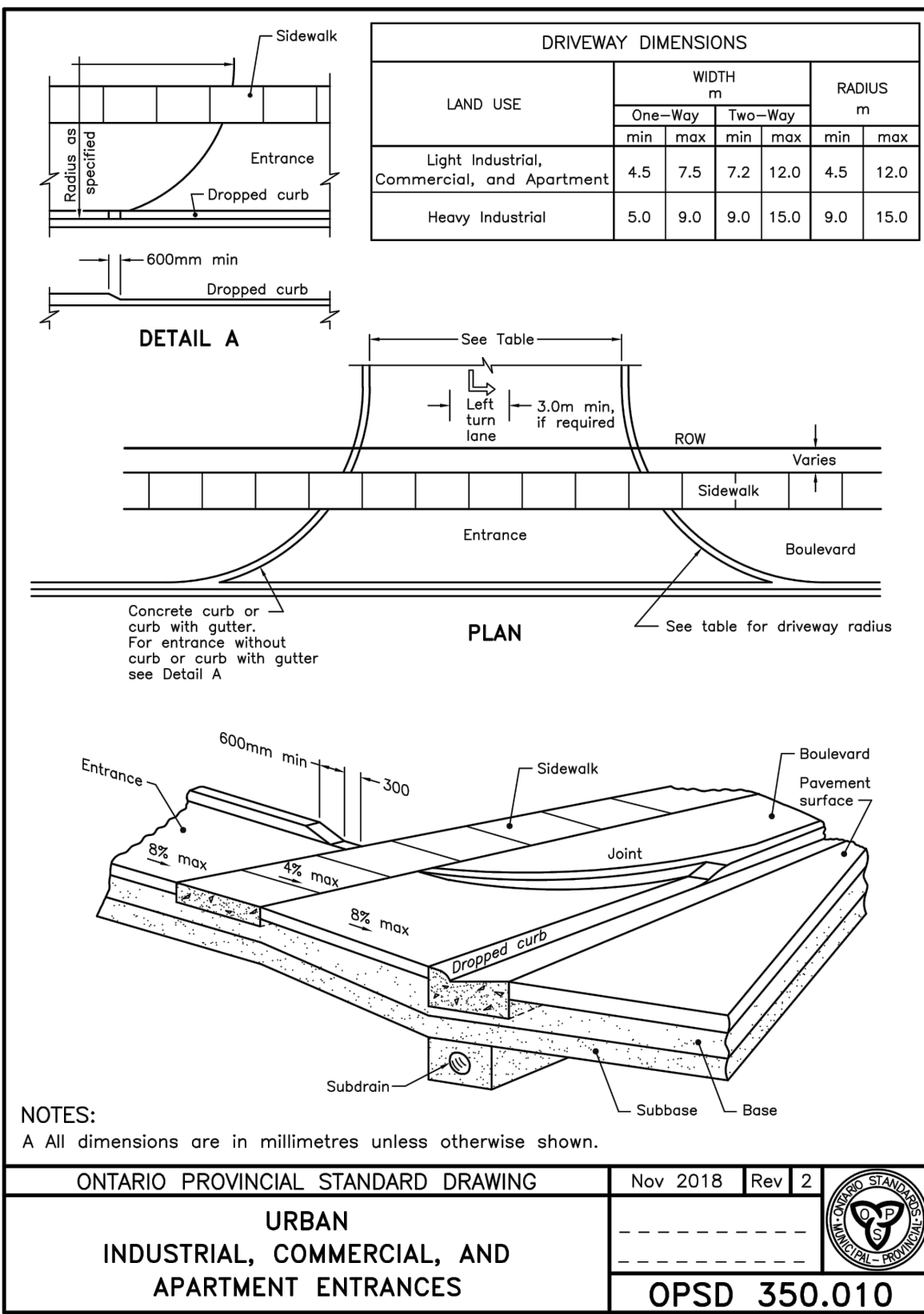
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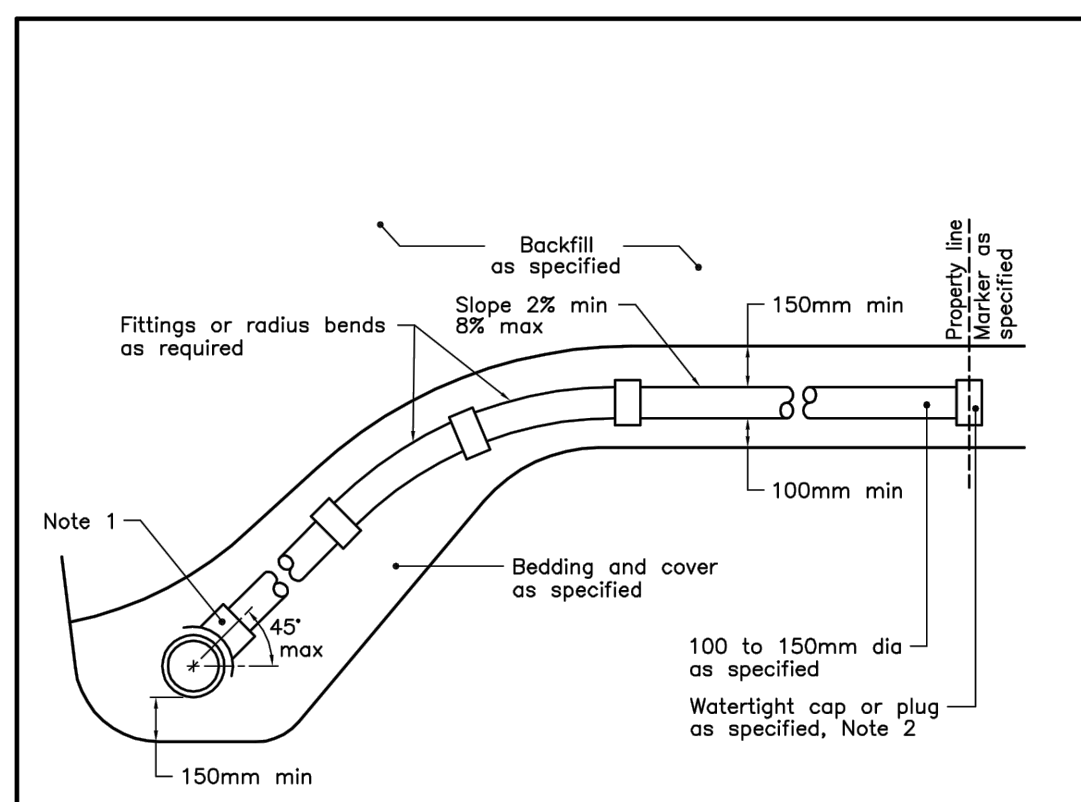
EROSION AND SEDIMENT CONTROL

1. SEDIMENT BARRIERS, CURBS, DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER THROUGHOUT THE PROJECT. THE SITE AREA IS TO BE KEPT CLEAR OF ALL OBSTRUCTIONS.
3. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
4. THE SITE WILL BE MET DOWN IF NECESSARY TO CONTROL DUST.
5. CONSTRUCTION EQUIPMENT TO BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE CURBS AND CONSTRUCTION ACCESS.
6. ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH THE TOWN NOISE BYLAW.
7. SEDIMENT CONTROL FENCE TO BE AS PER USDP 219.130.
8. CONSTRUCTION VEHICLES TO BE EQUIPPED WITH TIRE TEMPORARY CONSTRUCTION ACCESS.
9. ALL TPOSL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
10. FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL GRADE-TOBANS TO THAT SEDIMENT, SILT TRAPS ARE TO BE INSTALLED AT ALL TPOSL STOCKPILES. STOCKPILES TO BE COVERED WITH GRATES AS THE CURBS ARE CONSTRUCTED.
11. AND THE BOLLERBOARDS ARE SODDED OR BACKWARDS GRATED AND SODDED. FILTER FABRIC FOR SILT TRAPS TO BE AS PER USDP 219.130 AND 219.131.
12. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY MEASURES, AND DUST CONTROL.
13. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER.
14. THE CONTRACTOR WILL BE REQUIRED TO KEEP UNDER CONTROL ALL DUST AND PARTICULATE MATTER FROM THE CITY. MUD MATS TO BE INSTALLED AT ALL TEMPORARY CONSTRUCTION ACCESS POINTS.
15. THE CONTRACTOR WILL BE RESPONSIBLE TO DETERMINE LOCATIONS OF TPOSL AND/OR GRANULAR STOCKPILES WITHIN THE SITE. LOCATION OF STOCKPILES MAY CHANGE TO SUIT VARIOUS STAGES OF CONSTRUCTION.
16. THE CONTRACTOR SHALL PROVIDE SEPARATE STORAGE AREAS WITHIN THE SITE FOR HAZARDOUS AND WASTE MATERIALS. STORAGE AREAS SHALL BE LOCATED AWAY FROM THE TPOSL STOCKPILES, INCLUDING DRAINAGE POND, SEWERS, DITCHES, ETC. AND INCLUDE SLOPPY SKIMMAGE AREAS WITH IMPERVIOUS SURFACES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDRESSING AND REPORTING ANY HAZARDOUS WASTE SPILLS TO THE APPROPRIATE LOCAL AGENCY.
17. CONTRACTOR TO ENSURE THAT PORTABLE TOILETS ARE LOCATED OFF PAVED ROADWAYS AND AWAY FROM THE TPOSL STOCKPILES, SUCH AS POND, DITCH, AND SODDING.
18. THE SEDIMENT CONTROLS, INCLUDING SEDIMENTS, SHALL BE REMOVED OFF SITE AFTER GRASS SURFACES HAVE BEEN RESTORED TO THE SATISFACTION OF THE ENGINEER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND RECORDING EROSION CONTROLS, AS DESCRIBED IN THE "EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN CONSTRUCTION" AND/OR THE OTHER TOWN OF NIAGARA-ON-THE-LAKE REQUIREMENTS ON A SITE-BY-SITE BASIS SUCH AS INTERLOCKING SWELLS/DITCHES, EROSION CONTROL, AND SEDIMENT CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING THE EXISTING AND PROPOSED STORM DRAINAGE SYSTEMS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE SEDIMENT CONTROLS. THE CONTRACTOR TO INSTALL SEDIMENT CONTROLS, SUCH AS SEDIMENT FENCING, ALONG DOWNSTREAM EDGES OF INDIVIDUAL BOLLERS.



WATER METER CHAMBER
WATER SERVICES 100mm to 250mm

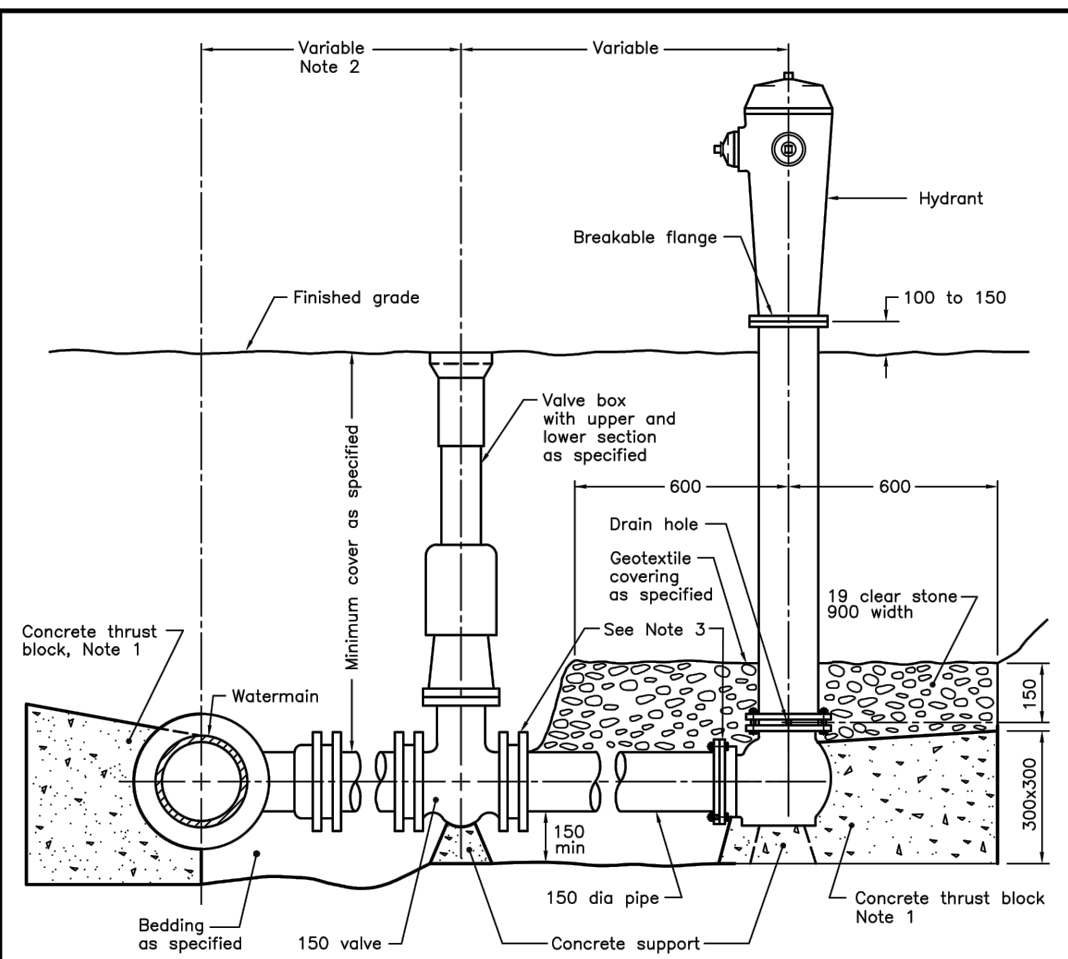
DATE	2020-08-01
SCALE	N/A
REF. No.	-
ENV. No.	-



NOTES:

1. Sewer service connections to the main pipe sewer shall be made using factory made tees or wyes, strap-on-saddles, or other approved saddles.
2. Cap or plug at property line shall be adequately braced.
- A. Maintenance holes shall be used at the main sewer to connect service connections greater than or equal to 200mm.
- B. For new construction, saddles shall be installed on the main pipe before that pipe is laid.
- C. Approved cut-in tool shall be used for field made connections.
- D. All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2011	Rev	2	
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NOTES:

- 1 All concrete thrust blocks shall be poured against undisturbed ground.
- 2 When specified, for watermains 400mm and less, loose valve within 1.0m of centreline shall be installed. For watermains 450mm and greater, the valve shall be installed above and over, both valve with flanges and directly to flanged tee.
- 3 Retaining and restraining structures shall be as specified.
- 4 A Bond breaker shall be used between the concrete and the fittings and appurtenances.
- 5 Bolts and nuts for buried flange to flange connections shall be stainless steel.
- 6 A required flange or standpipe fittings shall not be in frost zone.
- 7 This OPSD shall be read in conjunction with OPSD 110.010 and 110.020.
- 8 Backfill material within 500mm of service box shall be native or imported, as specified.
- 9 Tracer wire shall be installed as specified.
- 10 Dimensions and materials shall be as otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov. 2018	Rev	3	
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HYDRANT INSTALLATION

OPSD 1105.010	
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REGENT STREET

CENTRE STREET

GAGE STREET

325 KING STREET
PARLIAMENT OAK HOTEL
4 STOREYS

GF FFE 88.53
B1 FFE 83.90
B2 FFE 80.85

KING STREET

KEY PLAN

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS PREPARED BY RVA.

LEGEND

- PROPERTY LINE
- LIMIT OF ROOF OVERHANG
- PROPOSED ELEVATION
- PROPOSED LOW POINT
- EXISTING ELEVATION
- PROPOSED SLOPE
- AREA DRAIN (AD)
- CATCH BASIN
- STRIP DRAIN (SD)
- ACCESS OPENING
- PROPOSED RETAINING WALL
- PROPOSED HIGH POINT
- PROPOSED FINISHED FLOOR ELEVATION
- PROPOSED OVERLAND FLOW ROUTE (GREATER THAN 100-YR STORM)
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED PAVER
- PROPOSED LIGHT STANDARD
- BENCHMARK LOCATION (REFER TO GEOTIC INVESTIGATION REPORT)
- EXISTING MUNICIPAL SIGN
- EXISTING HYDRO POLE
- EXISTING BELL
- EXISTING GAS MAIN
- EXISTING GUY WIRE

REMARKS:

ELEVATIONS SHOWN ON THIS PLAN ARE EXTRACTED FROM TOPOGRAPHICAL SKETCH OF 325 KING ST., BY J.D. BARNES DATED NOVEMBER 25, 2022. ELEVATIONS ARE OF GEOTIC ORIGIN (C.O.D.-1926.7), AND ARE DERIVED FROM CHS OBSERVATIONS AND NATURAL RESOURCES CANADA'S GEOD MODEL HT2.0.

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Client: TWO SISTERS RESORTS CORP.

Project Name: PARLIAMENT OAK INN
325 KING ST.

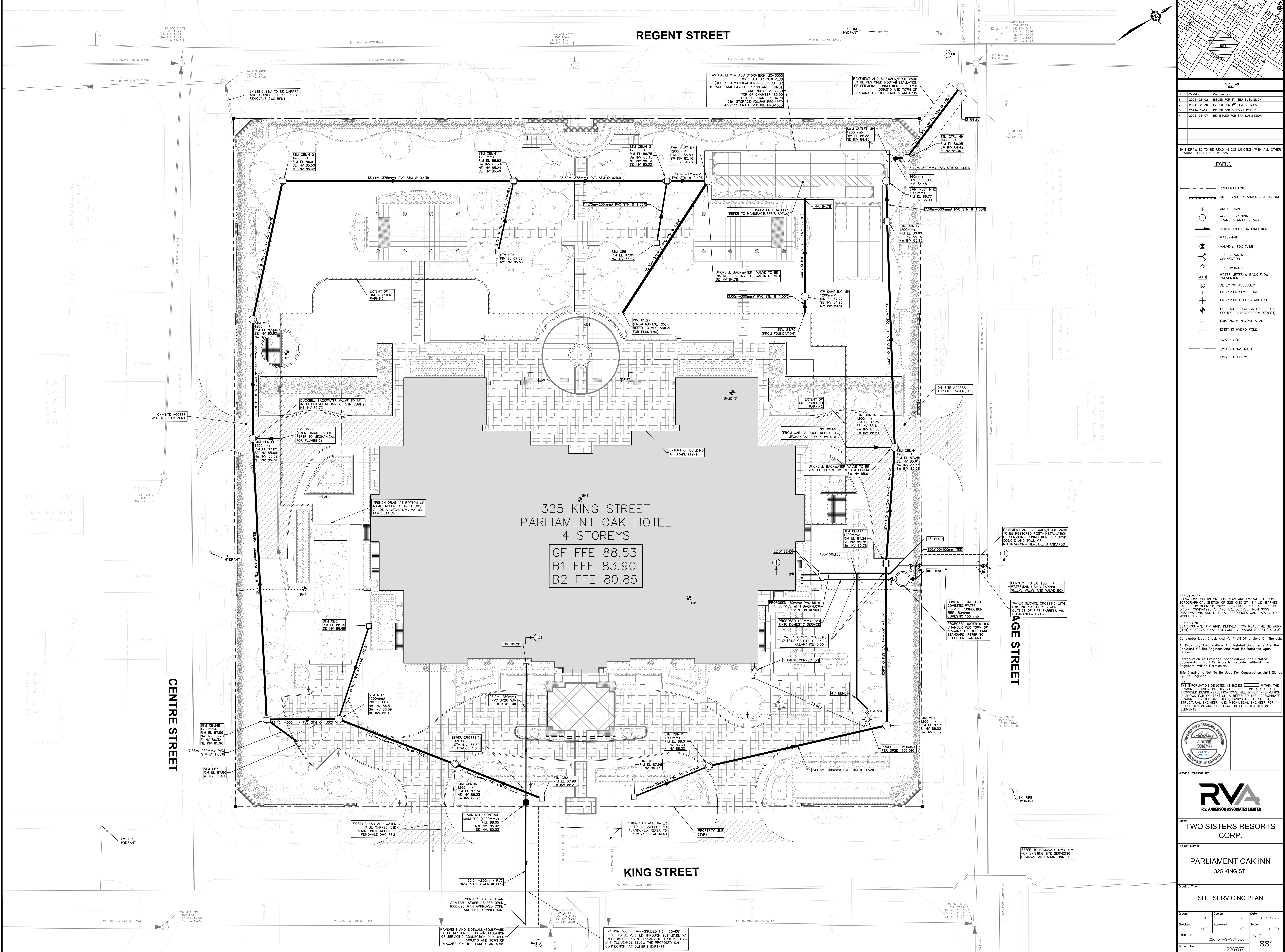
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Drawn: SO Design: SO Date: JULY 2023

Checked: SDF Approved: AST Scale: 1:200

CADD File: 226757-S-501.dwg Dwg. No.: SG1

Project No.: 226757



REV. PLAN	
No.	Comments
1	2023-02-02 ISSUED FOR 1 ST 2BA SUBMISSION
2	2024-08-30 ISSUED FOR 1 ST SPA SUBMISSION
3	2024-11-17 ISSUED FOR BUILDING PERMIT
4	2025-03-07 RE-ISSUED FOR SPA SUBMISSION

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS PREPARED BY R.V.A.

LEGEND

PROPERTY LINE

UNDERGROUND PARKING STRUCTURE

AREA DRAIN

ACCESS OPENING FRAME & GRATE (F&G)

SEWER AND FLOW DIRECTION

WATERMAIN

VALVE & BOX (V&B)

FIRE DEPARTMENT CONNECTION

FIRE HYDRANT

WATER METER & BACK FLOW PREVENTER

DETECTOR ASSEMBLY

PROPOSED SEWER CAP

PROPOSED LIGHT STANDARD

BOREROLE LOCATION (REFER TO GEOTECH INVESTIGATION REPORT)

EXISTING MUNICIPAL SIGN

EXISTING HYDRO POLE

EXISTING BELL

EXISTING GAS MAIN

EXISTING GUY WIRE

BENCH MARK:
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PROFESSIONAL ENGINEER
A. WONG
205-0107
RVA 2047
PROVINCE OF ONTARIO

Drawing Prepared By

RVA
R.V. ANDERSON ASSOCIATES LIMITED

Client:

TWO SISTERS RESORTS CORP.

Project Name:

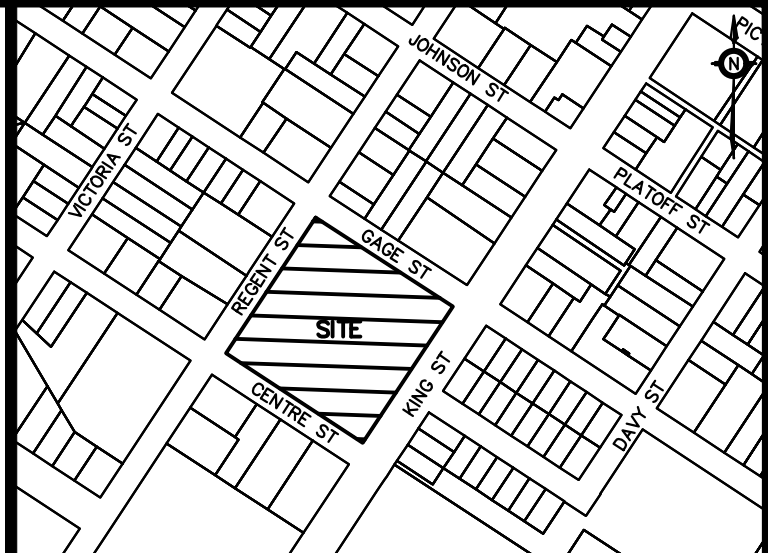
**PARLIAMENT OAK INN
325 KING ST.**

Drawing Title:

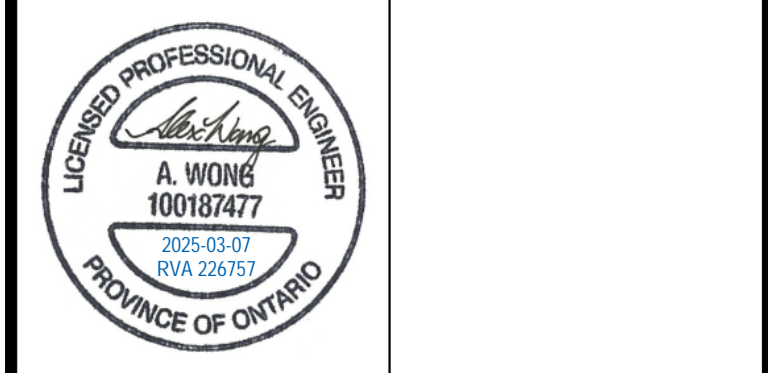
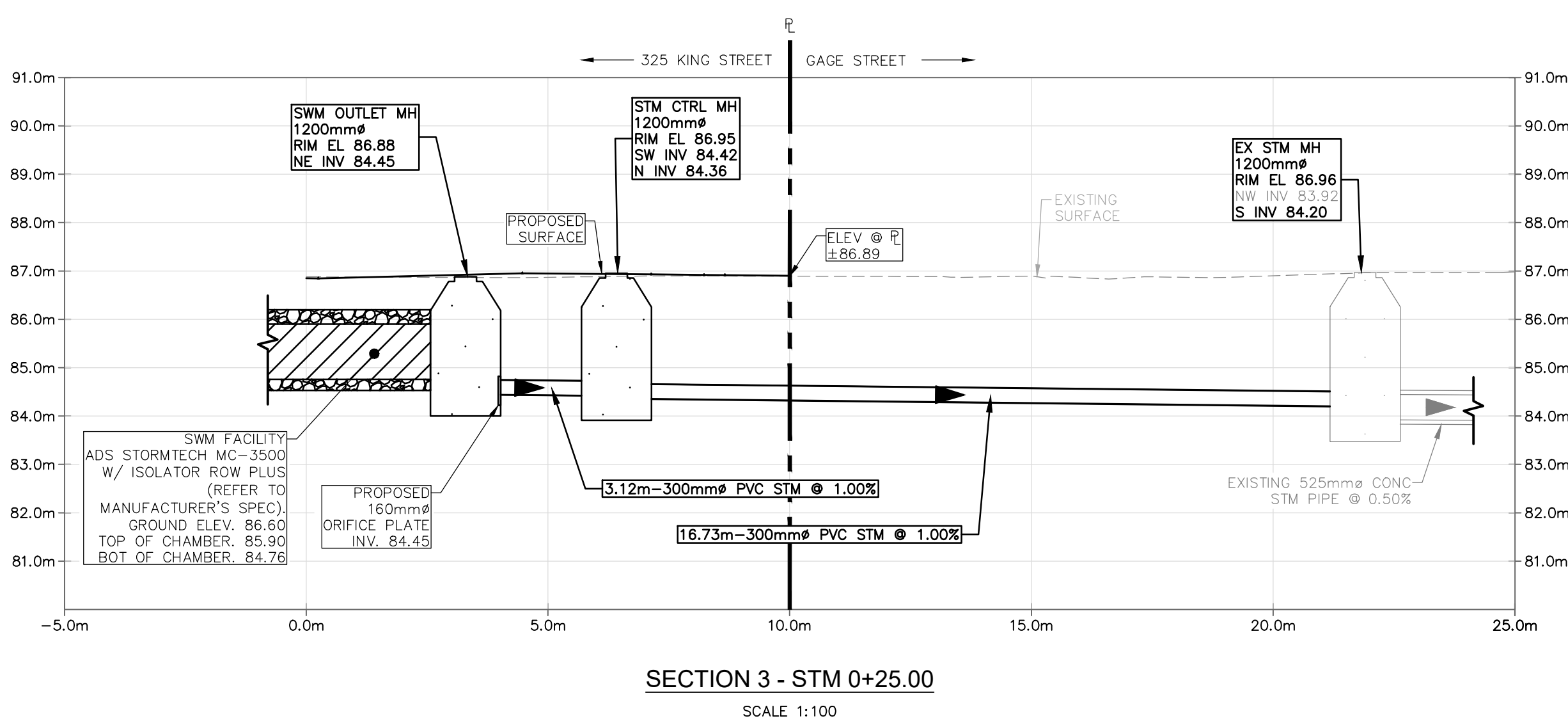
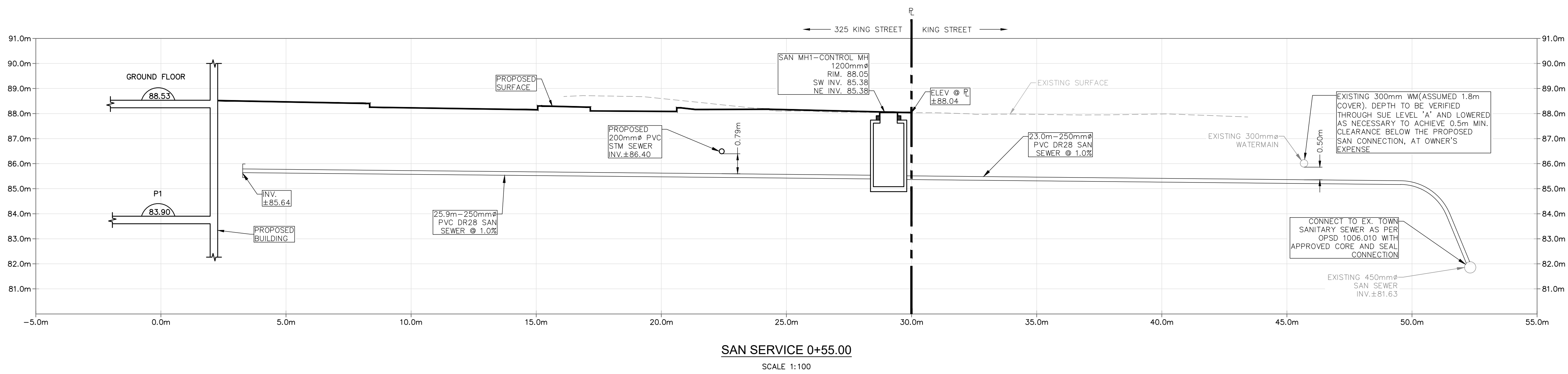
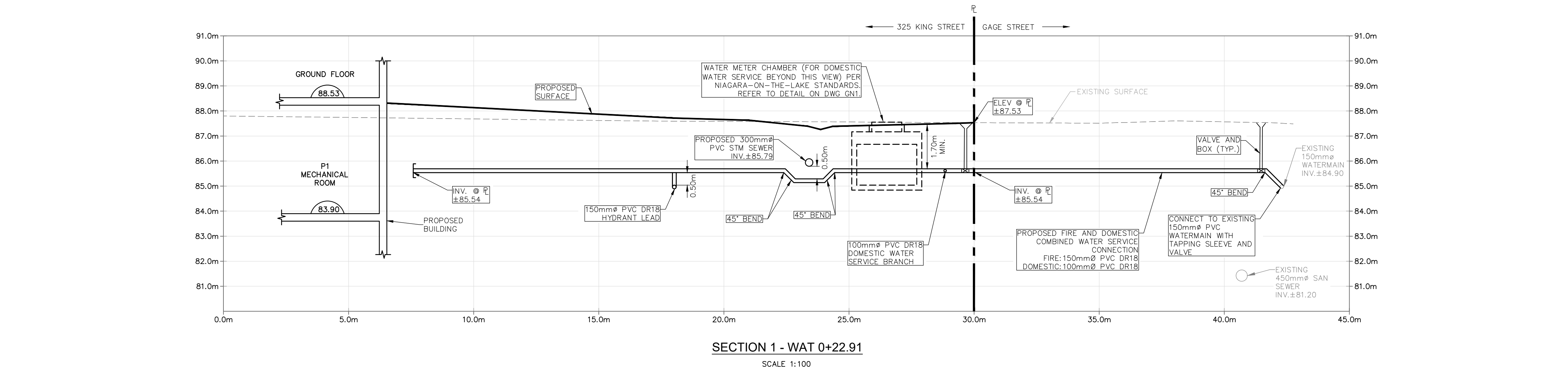
SITE SERVICING PLAN

Drawn:	SO	Design:	SO	Date:	JULY 2023
Checked:	SDF	Approved:	AST	Scale:	1:200
CADD File:	226757-S-551.dwg	Dwg. No.:			
Project No.:	226757				

SS1



KEY PLAN		
No.	Revision	Comments
1	2023-02-02	ISSUED FOR 1 ST ZBA SUBMISSION
2	2024-08-16	ISSUED FOR 1 ST SPA SUBMISSION



Drawing Prepared By

RVA
R.V. ANDERSON ASSOCIATES LIMITED

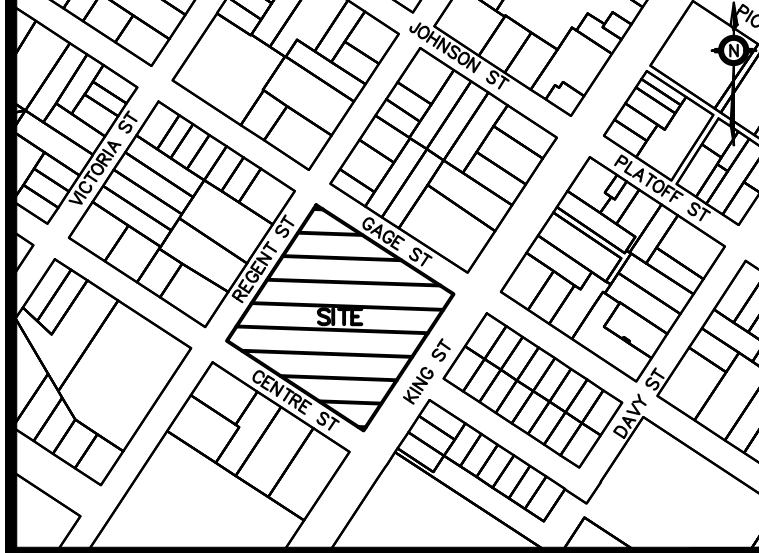
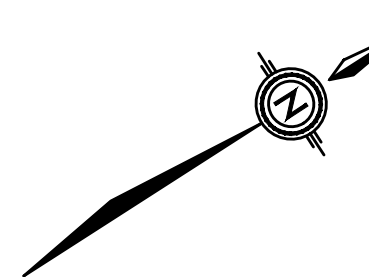
Client: **TWO SISTERS RESORTS CORP.**

Project Name: **PARLIAMENT OAK INN
325 KING ST.**

Drawing Title: **SERVICING CROSS SECTIONS**

Drawn	SO	Design	SO	Date	JULY 2023
Checked	SDF	Approved	AST	Scale	AS SHOWN
CADD File	226757-S-551.dwg	Dwg. No.			
Project No.	226757				

SEC1



KEY PLAN		
No.	Revision	Comments
1	2023-02-02	ISSUED FOR 1 ST SPA SUBMISSION
2	2024-08-30	ISSUED FOR 1 ST SPA SUBMISSION
3	2025-03-07	RE-ISSUED FOR SPA SUBMISSION

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS PREPARED BY RVA.

LEGEND	
---	PROPERTY LINE
X	REMOVE AND DISPOSE OFF SITE
//	ABANDON IN-PLACE

BENCH MARK:
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Drawing Prepared By:

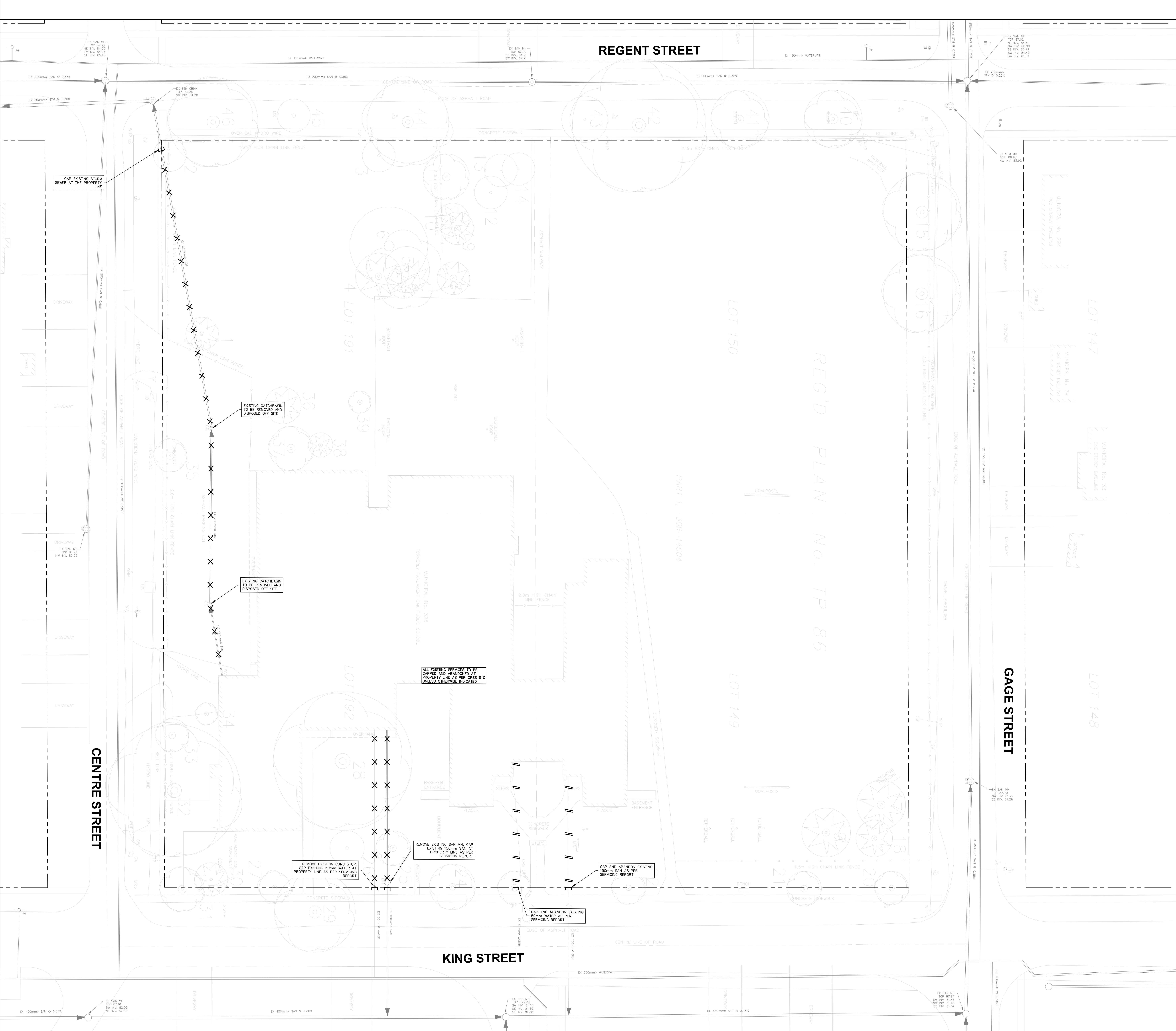


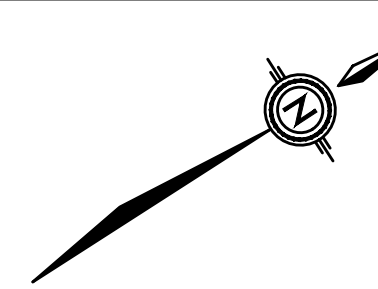
Client: **TWO SISTERS RESORTS CORP.**

Project Name: **PARLIAMENT OAK INN
325 KING ST.**

Drawing Title: **SERVICING REMOVALS PLAN**

Drawn	SO	Design	SO	Date	JULY 2023
Checked:	SDF	Approved:	AST	Scale:	1:200
CADD File:	226757-S-REM1.dwg				Dwg. No:
Project No.:	226757				REM1





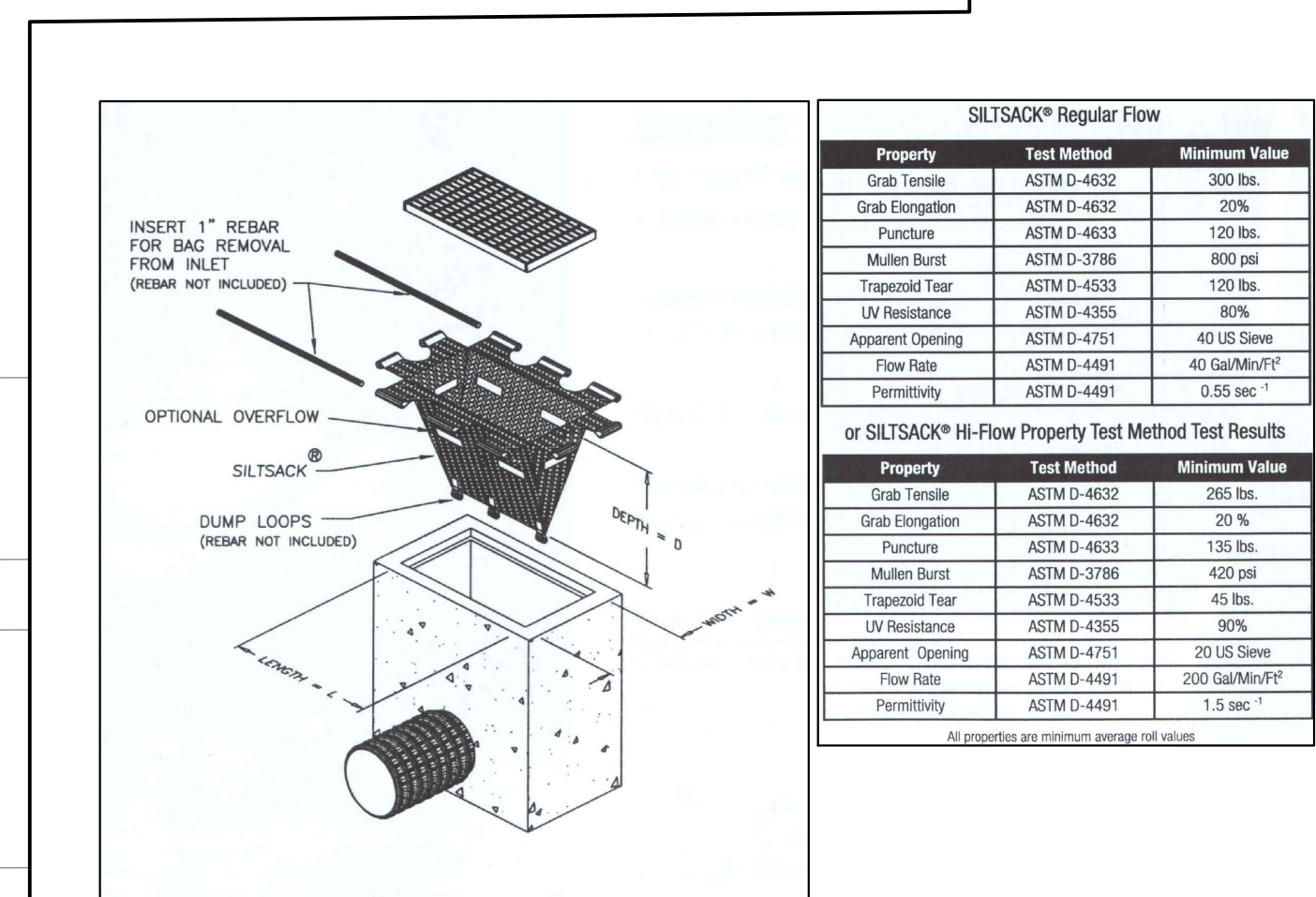
KEY PLAN N.T.S.		
No.	Revision	Comments
1	2023-02-02	ISSUED FOR 1 ST ZBA SUBMISSION
2	2024-08-30	ISSUED FOR 1 ST SPA SUBMISSION
3	2025-03-07	RE-ISSUED FOR SPA SUBMISSION

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DRAWINGS PREPARED BY RVA.

LEGEND

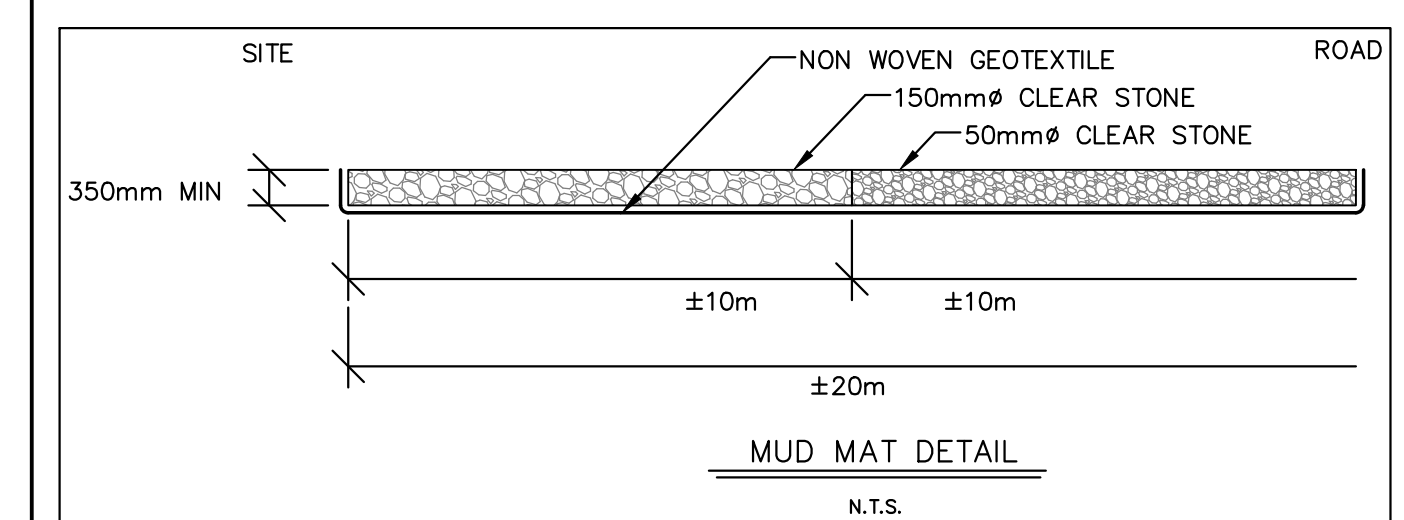
_____ PROPERTY LINE

—□— SEDIMENT CONTROL FENCE
○ SEDIMENT CONTROL (SILT SACK)

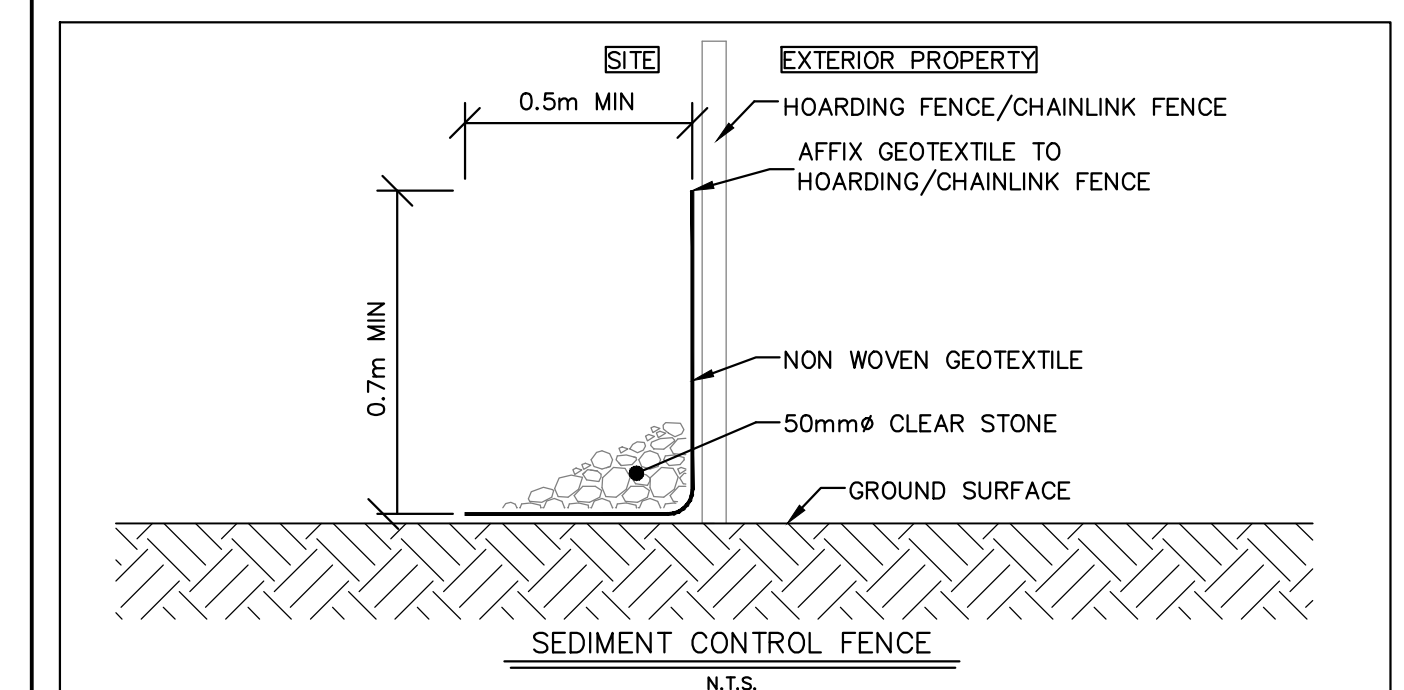


CB/DCB SILT SACK DETAIL

N.T.S.



MUD MAT DETAIL



N.T.S.

MUD MATS TO BE INSTALLED PER MUD MAT DETAIL, CLEANED AND/OR REPLACED AS REQUIRED. EXACT LOCATION, ORIENTATION AND GRADE OF MUD MAT IS SUBJECT TO CHANGE TO SUIT STAGES OF EXCAVATION AND CONSTRUCTION.

BENCH MARK:
ELEVATIONS 5

BENCH MARK:
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DATED NOVEMBER 25, 2022. ELEVATIONS ARE OF GEOTIC
ORIGIN (CGVD-1928:7), AND ARE DERIVED FROM GNSS
OBSERVATIONS AND NATURAL RESOURCES CANADA'S GEOID
MODEL HT2.0.

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Drawing Prepared By:



Client: TWO SISTERS RESORTS
CORP.

Project Name:

PARLIAMENT OAK INN
325 KING ST.

Drawing Title:

EROSION AND SEDIMENT
CONTROL PLAN

Drawn:	Design:	Date:
SO	SO	JULY 202

Checked: SDF	Approved: AST	Socle: 1:20
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CADD File:	226757-S-ESC1.dwg	Dwg. No.:	ESC1
Project Name:			

R:\2022\226757 - Two Sisters Reports-325 King St. NOTL\10 CAC\dwp\01 Linear\04 Sheet