

BENCH MARK
 STATION: 0011932U5205
 NEWCASTLE - COMMUNITY HALL, FRONT OF SOUTH WALL, RECTANGULAR BENCH MARK PLATE IN WATER TABLE COURSE OF STONEWORK, 1.52M EAST OF ENTRANCE.
 ELEVATION: 99.228

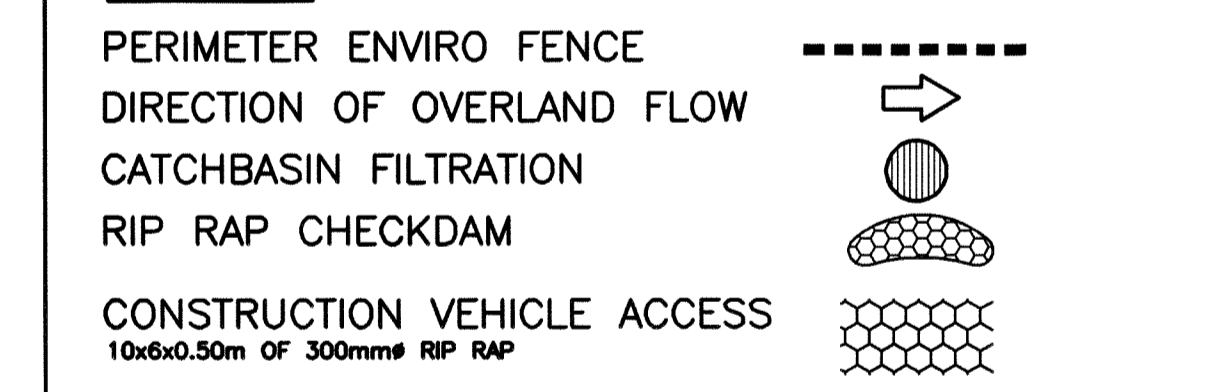
DUST CONTROL MEASURES:

- A. GENERAL NOTES**
- A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORK DONE IN THE MUNICIPAL ROAD ALLOWANCE. EXCAVATION OF THE ROAD SURFACE IS NOT PERMITTED BETWEEN DECEMBER 1ST AND APRIL 30TH.
 - ALL RESTORATION OR WORK DONE IN THE ROAD ALLOWANCE MUST BE COMPLETED AS PER MUNICIPAL FIELD STAFF DIRECTION.
 - THE PERFORMANCE GUARANTEE WILL NOT BE REFUNDED BY THE MUNICIPALITY OF CLARINGTON UNLESS THE WORKS HAVE BEEN INSPECTED BY MUNICIPAL FORCES AND DEEMED TO BE COMPLETE AND SATISFACTORY.
- B. PRE-GRADING PLANNING**
- THE SITE SERVING FOR THE SITE SHALL BE SCHEDULED SUCH THAT THE OVERALL TIME THE AREAS ARE LEFT OPEN TO WIND THAT CREATE BLOWING DUST FROM THE EARTHWORK OPERATIONS IS MINIMIZED.
 - THE TOPSOIL STOCKPILE (IF APPLICABLE) SHALL BE STABILIZED WITHIN 30 DAYS OF STOCKPILING MATERIALS IN ACCORDANCE WITH CITY'S CRITERIA. ALL DISTURBED LANDS OUTSIDE THE PHASE OF WORK SHALL BE STABILIZED/VEGETATED.
 - THE CONTRACTOR SHALL APPLY WATER TO HAUL ROADS AND STOCKPILES (IF APPLICABLE) BY WAY OF WATER TRUCK.
- C. WATERING (POST-GRADING)**
- WITHIN AREAS WHERE EARTHWORKS AND/OR UNDERGROUND MUNICIPAL SERVICING IS ON-GOING, WATER IS TO BE UTILIZED AT SUFFICIENT QUANTITY TO PREVENT VISIBLE EMISSIONS FROM EXTENDING MORE THAN 30m FROM THE POINT OF ORIGIN.
- D. REDUCE VEHICLE SPEED**
- THE ON-SITE SPEED LIMIT FOR CONSTRUCTION VEHICLES SHALL BE MINIMIZED AND TO BE USED IN CONJUNCTION WITH WATERING TO PREVENT VISIBLE DUST EMISSIONS.
- E. RESTRICT ACTIVITIES DURING HIGH WIND PERIODS**
- THE HIGH VISIBILITY OF CERTAIN WORKS AND THE CLOSE PROXIMITY AND POPULATION IMPACT SHOULD BE TAKEN INTO CONSIDERATION WHEN SCHEDULING DUST-PRODUCING WORK. APPROPRIATE DUST CONTROL MEASURES SHALL BE IN PLACE IN SUCH SITUATIONS.
- F. ROAD CLEANING**
- SPILLAGE, EROSION OR MATERIALS "TRACKED OUT" ON A ROAD TO BE CLEANED USING MECHANICAL STREET SWEEPERS OR FLUSHER TRUCK AT LEAST BY THE END OF THE WORK DAY. HOWEVER, IF SPILLAGE EXTENDS MORE THAN 15m ALONG A PAVED PUBLIC ROADWAY, IT MUST BE CLEANED UP IMMEDIATELY.
 - IMPORTING AND EXPORTING OF MATERIALS ON AND OFF-SITE WILL BE SHUT DOWN DURING AND FOLLOWING INCLEMENT WEATHER UNTIL THE ROAD SURFACES HAVE BEEN CLEANED.

SEDIMENT CONTROL CONSTRUCTION SCHEDULE

- INSTALL PERIMETER ENVIRO FENCE AND CONSTRUCTION VEHICLE ACCESS.
- EXCAVATE PERIMETER SWALES AND SEDIMENT PONDS AS REQUIRED.
- STRIP SITE OF TOPSOIL AND REMOVE OFF SITE OR STOCK PILE AND PROVIDE ENVIRO FENCE AROUND BOTTOM OF PILE.
- INSTALL MINOR STORM SEWER SYSTEM ALONG WITH OTHER SERVICES.
- INSTALL CATCHBASIN FILTRATION ON ALL CATCHBASINS AND CATCHBASIN.
- SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED UNTIL ALL AREAS OF THE SITE HAVE BEEN STABILIZED WITH SOO OR ASPHALT.

LEGEND



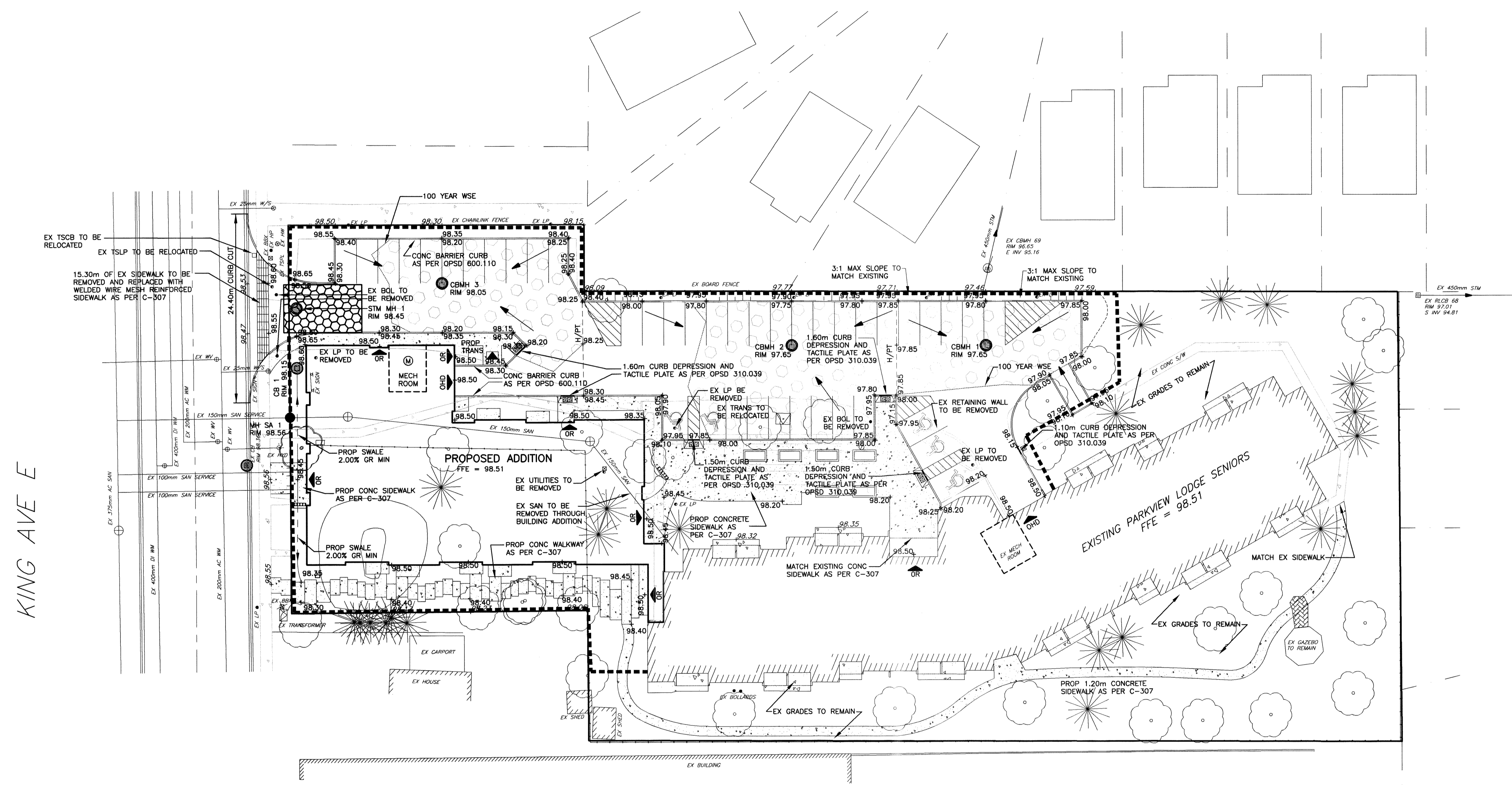
NO.	DATE	REVISION	BY
1	JUN 2019	SITE REVISIONS BASED ON MUNICIPAL AND REGION COMMENTS	RPH

REVISIONS
 PARKVIEW SENIORS LODGE - 165 KING AVE E, NEWCASTLE

EROSION AND SEDIMENT CONTROL PLAN

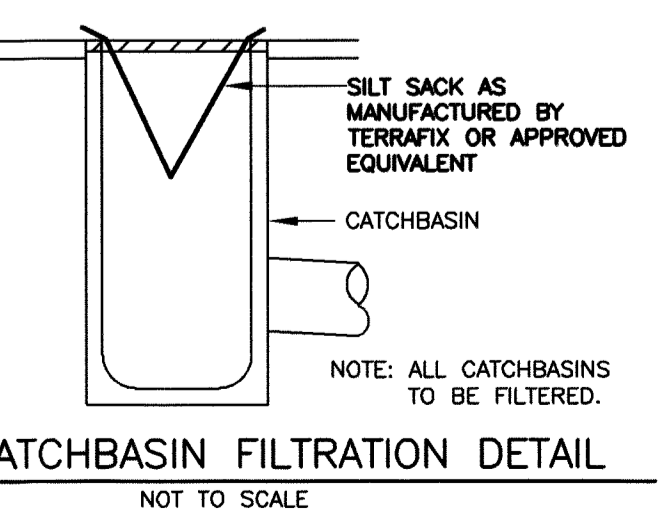
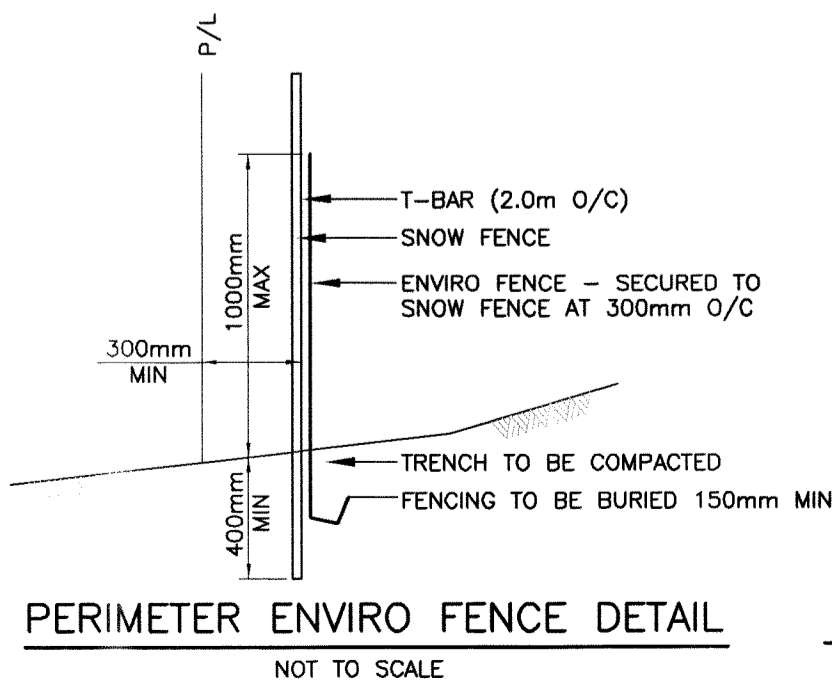
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DRAWN BY: R.P.H.	DRAWING NO. ES-1
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CHECKED BY: P.D.C.	
DATE: JAN 2019	



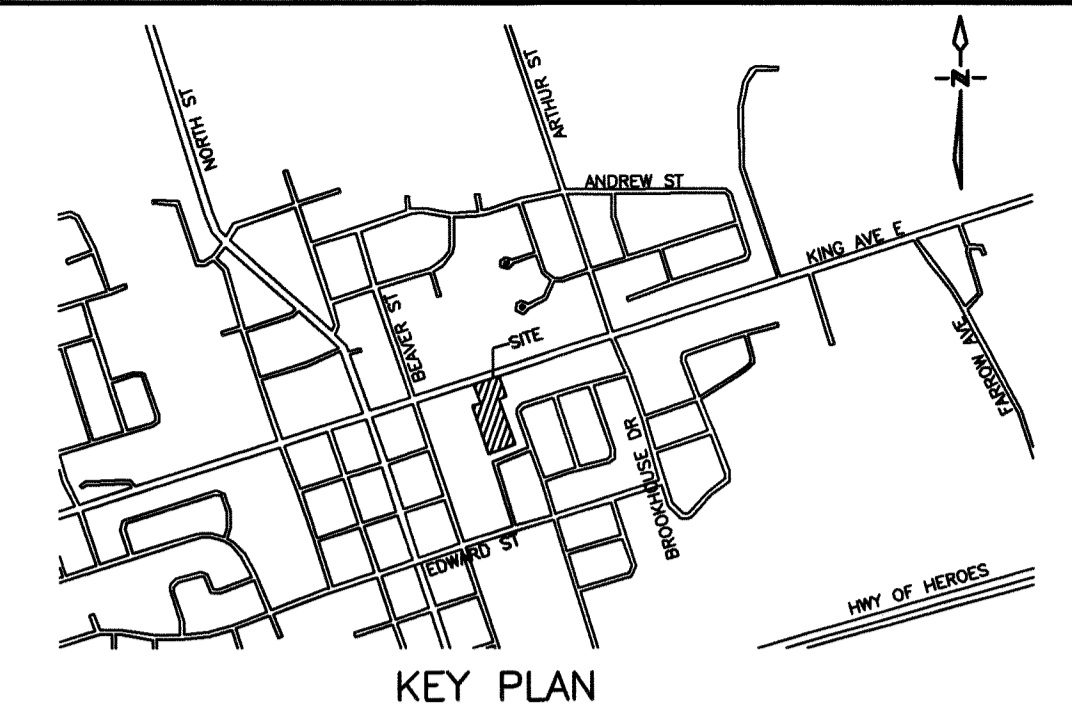
GENERAL NOTES

- RESPECTING ALL WORK IN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR IS TO PROVIDE AT LEAST 48 HOURS PRIOR NOTICE TO THE CLARINGTON ENGINEERING SERVICES DEPARTMENT STAFF AT 905-623-3379.
- A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORK DONE IN THE MUNICIPAL ROAD ALLOWANCE. EXCAVATION OF THE ROAD SURFACE IS NOT PERMITTED BETWEEN DECEMBER 1ST AND APRIL 30TH.
- ALL RESTORATION OR WORK DONE IN THE ROAD ALLOWANCE MUST BE COMPLETED AS PER MUNICIPAL FIELD STAFF DIRECTION.
- THE PERFORMANCE GUARANTEE WILL NOT BE REFUNDED BY THE MUNICIPALITY OF CLARINGTON UNLESS THE WORKS HAVE BEEN INSPECTED BY MUNICIPAL FORCES AND DEEMED TO BE COMPLETE AND SATISFACTORY.



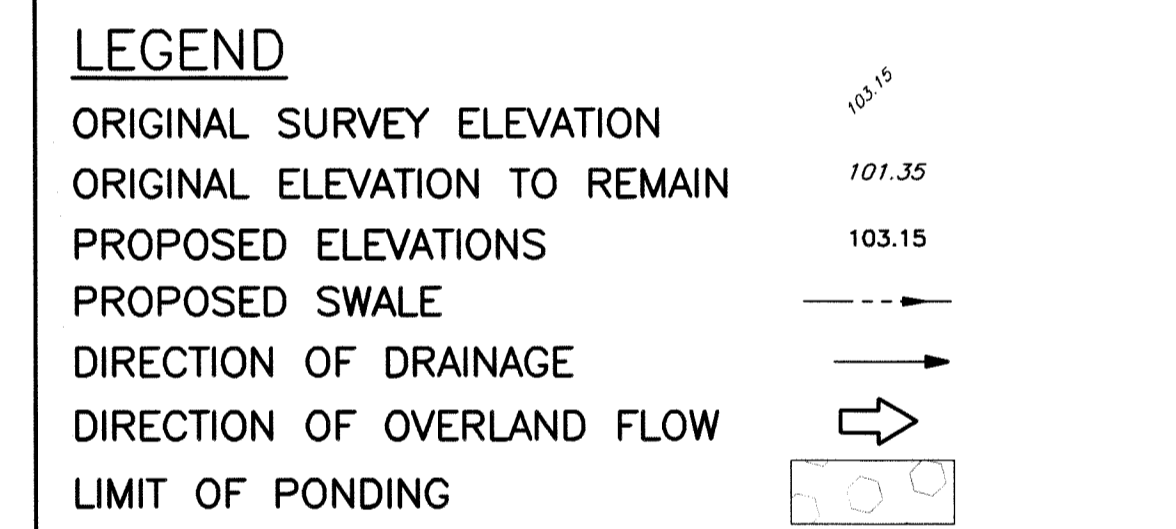
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BENCH MARK
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 ELEVATION: 99.228

- SITE SERVICING NOTES**
- RESPECTING ALL WORK IN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR PRIOR NOTICE TO THE CLARINGTON ENGINEERING SERVICES DEPARTMENT STAFF AT 905-623-3378.
 - A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORK DONE IN THE MUNICIPAL ROAD ALLOWANCE. EXCAVATION OF THE ROAD SURFACE IS NOT PERMITTED BETWEEN DECEMBER 1ST AND APRIL 30TH.
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 - THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION CONCERNED UTILITIES TO BE GIVEN ADVANCED NOTICE FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS.
 - QUANTITIES, DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION.
 - ALL SLOPES SHALL BE CONSTRUCTED AT 3:1 (MAXIMUM) UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - ALL SWALES SHALL BE CONSTRUCTED WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - ALL SLOPES, SWALES AND OPEN SPACE AREAS SHALL BE SODDED ON A MINIMUM OF 150mm OF TOPSOIL.
 - ALL DISTURBED AREAS WITHIN ABUTTING MUNICIPAL RIGHT OF WAYS SHALL BE SODDED ON A MINIMUM OF 150mm OF TOPSOIL.
 - DRIVE AISLE SHALL CONSIST OF THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER:
 - 300mm GRANULAR 'B'
 - 150mm GRANULAR 'A'
 - 50mm HLB ASPHALT
 - 40mm HLB ASPHALT
 - CURB AS PER OPSD 600.110



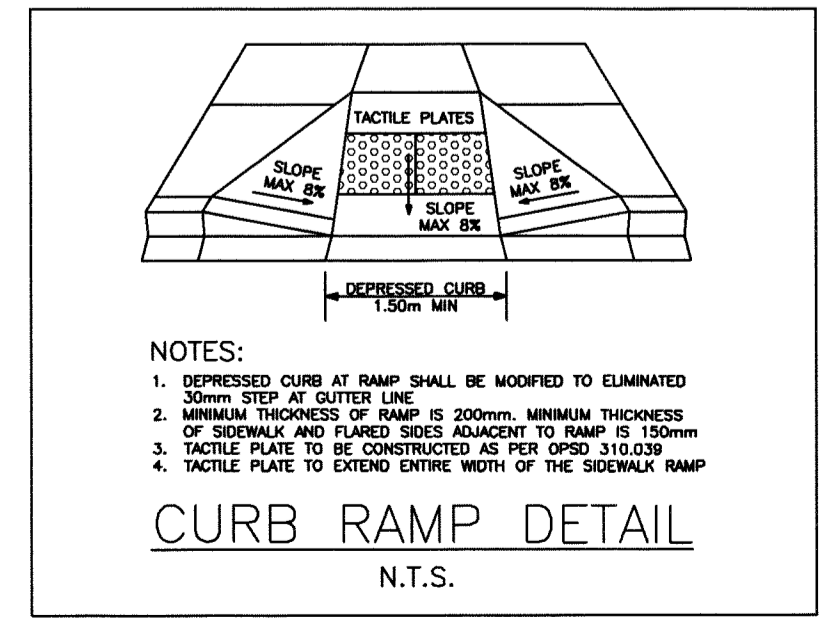
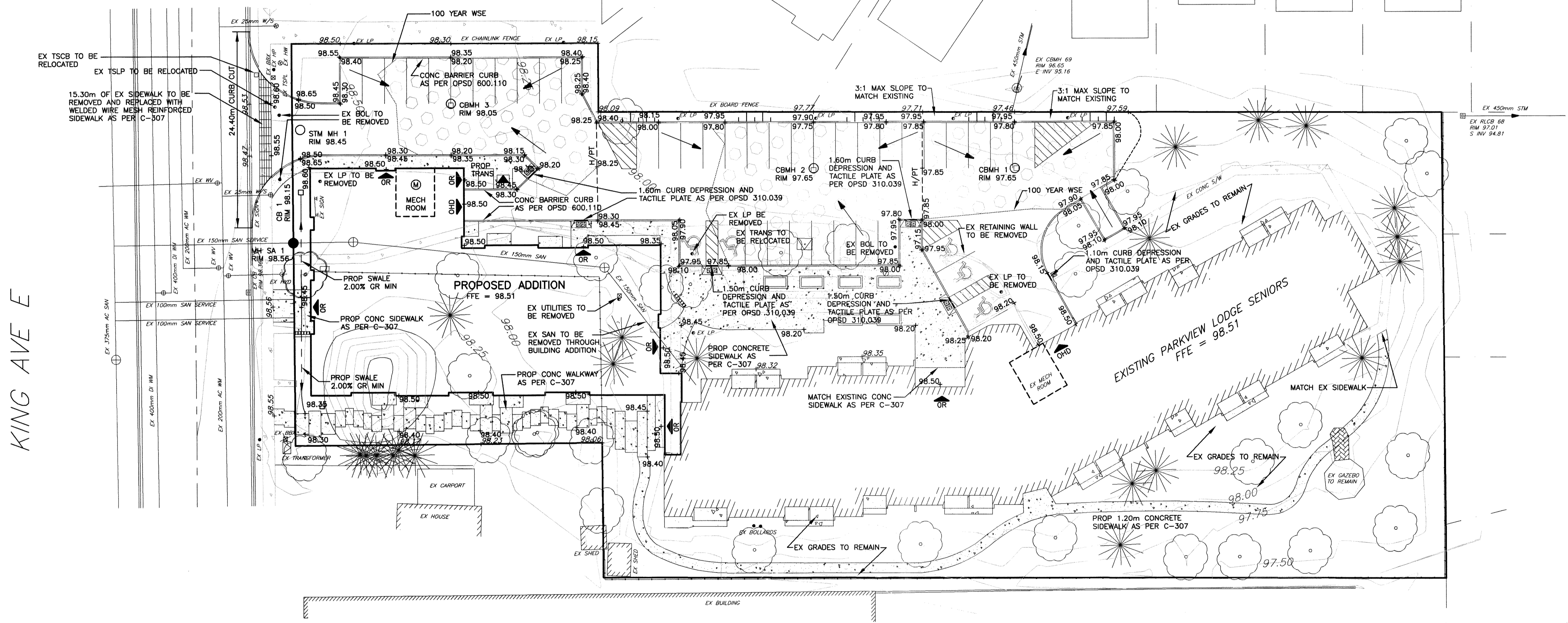
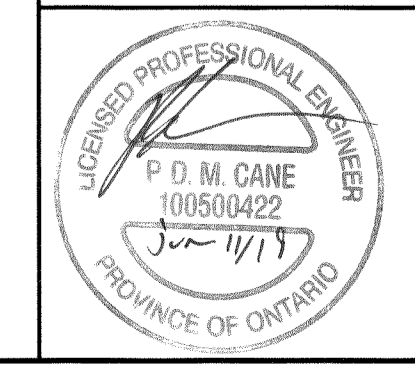
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REVISIONS
 PARKVIEW SENIORS LODGE - 165 KING AVE E, NEWCASTLE

SITE GRADING PLAN

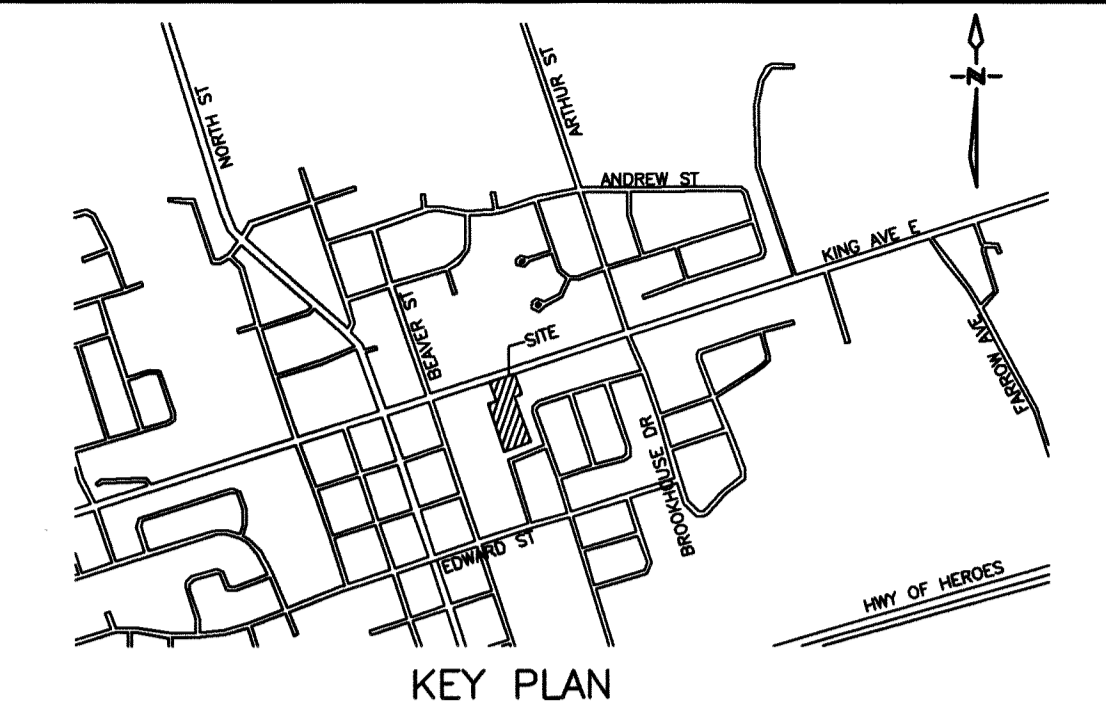
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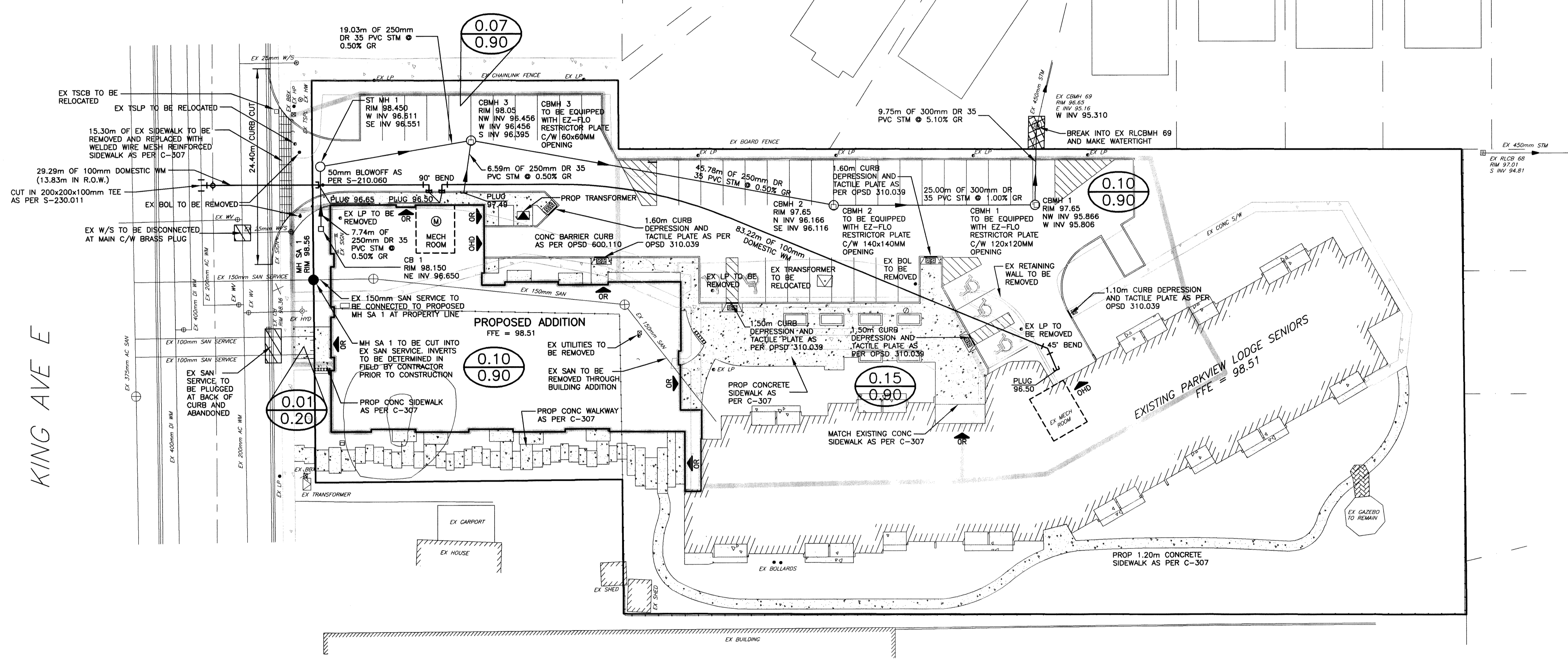
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BENCH MARK
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SITE SERVICING NOTES

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- ALL SANITARY SEWER AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM STANDARDS AND THE ONTARIO PLUMBING CODE.
 - SANITARY SEWER SERVICE PIPES, 100mm TO BE CL DR28 PVC PIPE, CL P BEDDING
 - SANITARY MANHOLES AS PER OPSD 701.010 C/W GRATE AS PER OPSD 401.010
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS.
- ALL WATER MAINS AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM STANDARDS AND THE ONTARIO PLUMBING CODE.
 - ALL WATER MAINS SHALL BE CONSTRUCTED A MINIMUM OF 1.80m BELOW FINISHED GRADE
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS
 - 100mm & 150mm WATERMAIN TO BE DR18 PVC PIPE, CL P BEDDING, AS PER S-200.010
- ALL STORM SEWERS AND APPURTENANCES SHALL COMPLY WITH THE MUNICIPALITY OF CLARINGTON STANDARDS AND THE ONTARIO PLUMBING CODE.
 - STORM SEWER PIPE 450mm AND SMALLER SHALL BE DR35 PVC PIPE, CL P BEDDING
 - STORM SEWER MANHOLES AND CATCH BASIN MANHOLES SHALL BE AS PER OPSD 701.010
 - CATCH BASINS SHALL BE AS PER OPSD 705.010
 - MANHOLE GRATES SHALL BE AS PER OPSD 401.010
 - CATCH BASIN GRATES SHALL BE AS PER OPSD 400.020
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH OPSD STANDARDS
- GENERALLY, A MINIMUM OF 0.20m SHALL BE PROVIDED BETWEEN THE OUTSIDE OF PIPE BARRELS AT THE POINT OF CROSSING FOR STORM AND SANITARY SEWERS. A MINIMUM OF 0.50m SHALL BE PROVIDED BETWEEN THE OUTSIDE OF PIPE BARRELS AT THE POINT OF CROSSING FOR ALL SEWERS CROSSING WATER MAINS.
- DRIVE AISLE SHALL CONSIST OF THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER:
 - 300mm GRANULAR 'B'
 - 150mm GRANULAR 'A'
 - 50mm HL8 ASPHALT
 - 40mm HL3 ASPHALT
 - OR MATCH EXISTING
 - CURB AND GUTTER SHALL BE RESTORED AS PER C-302 OR MATCH EXISTING
 - SIDEWALK SHALL BE RESTORED AS PER C-307
 - BOULEVARD SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD
- RESTORATION NOTES:
 - KING AVENUE EAST TO BE RESTORED WITH THE FOLLOWING UPON INSTALLATION OF ALL SERVICE CONNECTION TRENCHES:
 - 300mm GRANULAR 'B'
 - 150mm GRANULAR 'A'
 - 50mm HL8 ASPHALT
 - 40mm HL3 ASPHALT
 - OR MATCH EXISTING
 - CURB AND GUTTER SHALL BE RESTORED AS PER C-302 OR MATCH EXISTING
 - SIDEWALK SHALL BE RESTORED AS PER C-307
 - BOULEVARD SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD
 - EXISTING REAR LOT AREA AROUND EX CBMH 69:
 - 150mm TOPSOIL AND SOD
 - REPLACE EXISTING FENCE IN KIND



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LEGEND

- DRAINAGE BOUNDARY
- DRAINAGE AREA
- RUN-OFF COEFFICIENT
- OVERLAND FLOW DIRECTION
- WATER METER LOCATION
- BACKFLOW PREVENTOR

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REVISIONS
 PARKVIEW SENIORS LODGE - 165 KING AVE E, NEWCASTLE

SITE SERVICING PLAN

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