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GENERAL NOTES AND SPECIFICATIONS

- ALL MATERIALS AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH OPS AND CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS AND OPSD SUPPLEMENT. ONTARIO PROVINCIAL STANDARDS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF SAME INCLUDING WATER PERMIT AND ASSOCIATED COSTS.
- SERVICE AND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES FROM ALL UTILITY COMPANIES TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REINSTATEMENT.
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE ENGINEER & THE CITY. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH OPSD 509.010 AND OPSS 310.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "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.
- THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENTATION CONTROL PLAN THAT WILL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION FOR RECEIVING STORM SEWERS OR DRAINAGE DURING CONSTRUCTION ACTIVITIES. THIS PLAN SHALL INCLUDE BUT NOT BE LIMITED TO CATCH BASINS, INSERTS, STRAW BALE CHECK DAMS AND SEDIMENT CONTROLS AROUND ALL DISTURBED AREAS. DEWATERING SHALL BE PUMPED INTO SEDIMENT TRAPS.
- SITE PLAN PREPARED BY RODERICK LAHEY ARCHITECT INC. DATED DECEMBER 21, 2022.
- TOPOGRAPHIC SURVEY SUPPLIED BY ANNIS, O'SULLIVAN, VOLLEBEK LTD. DATED APRIL 16, 2021.
- REFER TO LANDSCAPE ARCHITECTURE PLAN FOR ALL LANDSCAPING FEATURES (i.e. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS, FENCES etc.)
- GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP REPORT No. PG5729-1. GEOTECHNICAL INFORMATION PRESENTED ON THESE DRAWINGS MAY BE INTERPOLATED FROM THE ORIGINAL REPORT. REFER TO ORIGINAL GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS AND TO VERIFY ASSUMPTIONS MADE HEREIN.
- STREET LIGHTING TO CITY OF OTTAWA STANDARDS.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO ENGINEER.
- THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND DIRECTOR OF ENGINEERING HAS BEEN OBTAINED.
- HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE TO BE NOTIFIED IF DEEPLY BURIED ARCHEOLOGICAL REMAINS ARE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES.

ROADWORKS

- ALL TOPSOIL AND ORGANIC MATERIAL TO BE STRIPPED FROM WITHIN THE FULL RIGHT OF WAY PRIOR TO CONSTRUCTION.
- SUB-EXCAVATE SOFT AREAS & FILL WITH GRANULAR 'B' COMPACTED IN 0.30m LAYERS.
- ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- ROAD SUBDRAINS SHALL BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARD R1.
- ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
- CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE IF REQUIRED BY THE MUNICIPALITY. ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING.
- PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10, AND OPSD 509.010, AND OPSS 310.
- CONCRETE CURBS SHALL BE CONSTRUCTED AS PER CITY STANDARD SC1.1 AND SC1.3 (BARRIER OR MOUNTABLE CURB AS SHOWN ON DRAWINGS).
- CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER CITY STANDARDS SC3 AND SC1.4.
- PAVEMENT CONSTRUCTION AS PER GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP REPORT No. PG5729-1..

HEAVY DUTY ASPHALT
40mm HL3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm HL8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm OPSS GRANULAR A BASE
300mm OPSS GRANULAR B TYPE II

WATER SUPPLY SERVICING

- THE CONTRACTOR SHALL CONSTRUCT WATERMAIN, WATER SERVICES, CONNECTIONS & APPURTENANCES AS PER CITY OF OTTAWA SPECIFICATIONS & SHALL CO-ORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION & DISINFECTION BY CITY PERSONNEL.
- WATERMAIN PIPE MATERIAL SHALL BE PVC CL-150 DR18. DEFLECTION OF WATERMAIN PIPE IS NOT TO EXCEED 1/2 OF THAT SPECIFIED BY THE MANUFACTURER. PVC WATERMANS TO BE INSTALLED WITH TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W36.
- WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STANDARD W26 (UNLESS OTHERWISE NOTED). WATER SERVICE TO EXTEND 1.0M BEYOND PROPERTY LINE. STAND POST TO BE INSTALLED AT PROPERTY LINE.
- FIRE HYDRANTS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W18 AND W19.

- WATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W24.
- WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W17 UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL TO BE SPECIFIED BY PROJECT GEOTECHNICAL CONSULTANT.
- SERVICE CONNECTIONS SHALL BE INSTALLED A MINIMUM OF 2400mm FROM ANY CATCHBASIN, MANHOLE, OR OBJECT THAT MAY CONTRIBUTE TO FREEZING. THERMAL INSULATION SHALL BE INSTALLED ON ALL PROPOSED CBS ON THE W/M STREET SIDE WHERE 2400mm SEPARATION CANNOT BE ACHIEVED. (AS PER CITY OF OTTAWA W22 & W23)
- CATHODIC PROTECTION TO BE SUPPLIED ON METALLIC FITTINGS AS PER CITY OF OTTAWA W40 AND W42.
- THRUST BLOCKS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25.3 AND W25.4.
- WATERMAIN TO HAVE MIN. 2.4m COVER. WHERE WATERMAIN COVER IS LESS THAN 2.4m, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY STANDARD W22.
- WATERMAIN CROSSINGS ABOVE AND BELOW SEWERS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W25 AND W25.2.
- PRESSURE REDUCING VALVES (PRVs) IF REQUIRED, TO BE INSTALLED AS PER ONTARIO PLUMBING CODE.

STORM AND SANITARY SEWERS

- SEWERS 375mm DIA. OR SMALLER SHALL BE PVC DR35. SEWERS LARGER THAN 375mm SHALL BE CONCRETE CSA A 257.2 CLASS 100D AS PER OPSD 807.010.
- ALL STORM AND SANITARY SEWER BEDDING SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS S6 AND S7, CLASS "B" BEDDING, UNLESS OTHERWISE NOTED. SUITABLE BEDDING AND COVER MATERIAL TO BE SPECIFIED BY GEOTECHNICAL CONSULTANT.
- STORM AND SANITARY MANHOLES SHALL BE 1200mm DIAMETER IN ACCORDANCE WITH OPSD-701.01 (UNLESS OTHERWISE NOTED) c/w FRAME AND COVER AS PER CITY OF OTTAWA S24, S24.1, AND S25 WHERE APPLICABLE. CATCH BASIN MANHOLE FRAME AND COVERS PER S19, S28, AND S28.1 WHERE APPLICABLE. ALL STORM MANHOLES WITH SEWERS 900mm DIA SEWERS AND OVER IN SIZE SHALL BE APPROVED. ALL OTHER STORM MANHOLES SHALL BE COMPLETED WITH 300mm SLUMPS AS PER CITY STANDARDS. SANITARY MANHOLES SHALL NOT HAVE SLUMPS.
- ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, TO BE INSTALLED WITH LASER AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
- FOR STORM SEWER INSTALLATION (EXCLUDING CB LEADS) THE MINIMUM DEPTH OF COVER OVER THE CROWN OF THE SEWER IS 2.0m. FOR SANITARY SEWERS THE MINIMUM DEPTH OF COVER IS 2.5m OVER PIPE OBVERT.
- ALL STORM AND SANITARY SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
- STORM AND SANITARY SERVICE LATERALS TO BE SDR 28 INSTALLED AT MIN. 1.0% SLOPE. SINGLE STORM SERVICES TO BE 100mmØ. SINGLE SANITARY SERVICES TO BE 150mmØ. (SERVICES TO BE CAPPED 1.0m OFF BUILDING FACE). SEWERS WITH LESS THAN 1.5m COVER TO BE INSULATED IN ACCORDANCE WITH CITY STANDARD W22.
- CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY
- PIPE BEDDING TO CONSIST OF 300mm THICK OPSS 1010 GRANULAR B TYPE II SUB-BEDDING MATERIAL OVERLAIN BY 150mm THICK OPSS 1010 GRANULAR A BEDDING MATERIAL. THE BEDDING AND SURROUNDING MATERIALS SHOULD BE COMPACTED TO AT LEAST 95% SPMDD.
- CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSS 410 AND OPSS 407. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL STORM AND SANITARY SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW.
- ANY SEWER ABANDONMENT TO BE CONDUCTED ACCORDING TO CITY OF OTTAWA STANDARD S11.4
- PRE & POST CCTV OF SEWERS REQUIRED.
- CLAY SEALS TO BE INSTALLED AS PER OTTAWA CITY STANDARD S8
- REMOVAL AND DISPOSAL OF EXISTING 300mmØ AND 200mmØ ASBESTOS CONCRETE PIPE TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS
- ROOF DRAINAGE PIPES TO BYPASS THE CISTERN. REFER TO MECHANICAL DRAWINGS

GRADING

- ALL GRANULAR BASE & SUB BASE COURSE MATERIALS SHALL BE COMPACTED TO 98% STANDARD PROCTOR MAX. DRY DENSITY.
- SUB-EXCAVATE SOFT AREAS & FILL WITH GRANULAR 'B' COMPACTED IN 0.30m LAYERS.
- ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. WITH SOO ON MIN. 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER.
- 100 YEAR PONDING DEPTH TO BE 0.30m (MAXIMUM).
- EMBANKMENTS TO BE SLOPED AT MIN. 3:1, UNLESS OTHERWISE SPECIFIED.
- ALL SWALES TO BE MIN. 0.15m DEEP WITH MIN. 3:1 SIDE SLOPES UNLESS OTHERWISE NOTED. THE MINIMUM LONGITUDINAL SLOPE TO BE 1.5% OR 1.0% WHEN PERFORATED SUBDRAIN IS INSTALLED.
- TOP OF GRATE (TIG) ELEVATIONS FOR ALL STREET CATCHBASINS SHOWN ON PLANS. REFER TO THE ELEVATION AT EDGE OF PAVEMENT, OR GUTTERLINE WHERE APPLICABLE.
- ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT ARE TO BE DESIGNED, APPROVED, AND STAMPED BY STRUCTURAL ENGINEER.
- FENCES OR RAILINGS ARE REQUIRED FOR RETAINING WALLS GREATER THAN 0.60m IN HEIGHT.
- EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO TREE CUTTING.
- REFER TO DRAWING EC DS-1 FOR EROSION AND SEDIMENT

Best Management Practices

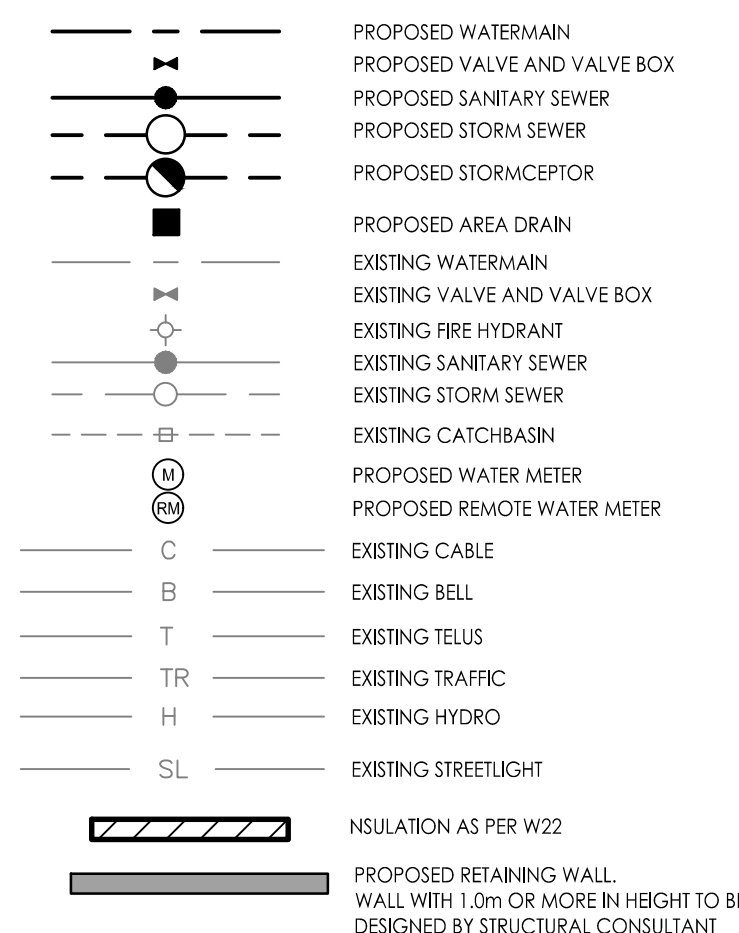
CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
- INSTALL CATCH BASIN INSERTS OR EQUIVALENT IN ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND IN ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE.
- A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO BE DETERMINED)
- A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
- SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS. ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS, OR DOWNSTREAM WATERCOURSES.
- NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING WATERWAY.
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- CONTRACTOR SHALL INSTALL MUD MATS AT ENTRANCE TO THE SITE.
- STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.
- CB'S ARE TO BE INSPECTED FOLLOWING RAINFALL EVENTS AND ACCUMULATED SEDIMENT IS TO BE REMOVED.

LEGEND

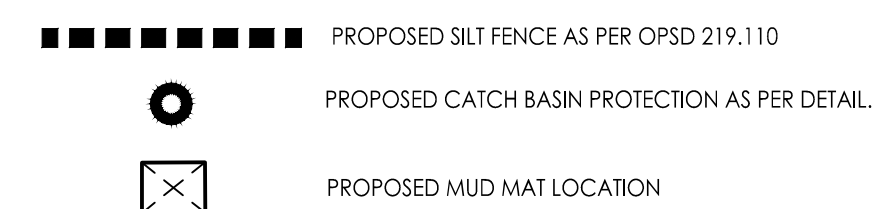
SERVICES



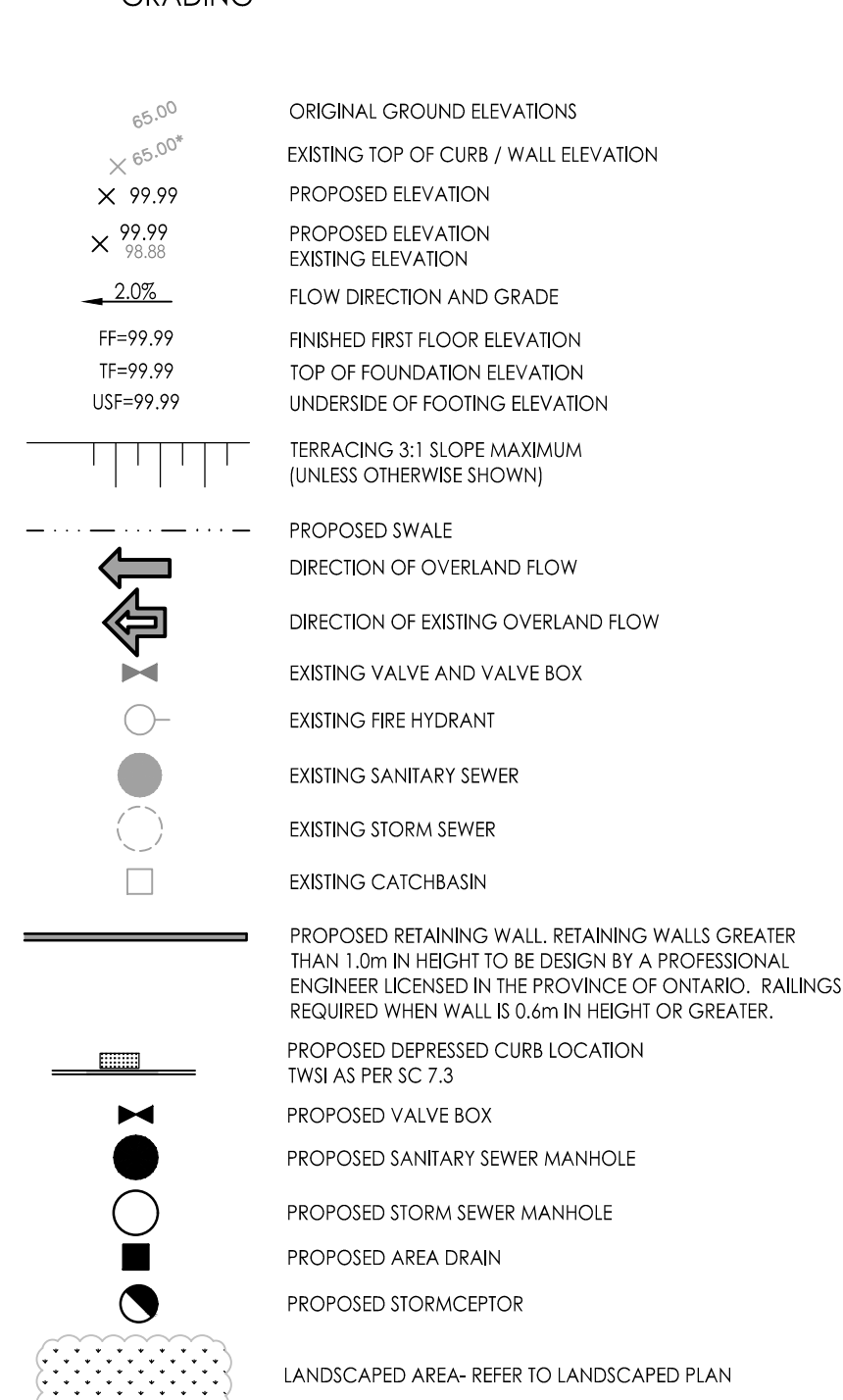
SANITARY DRAINAGE



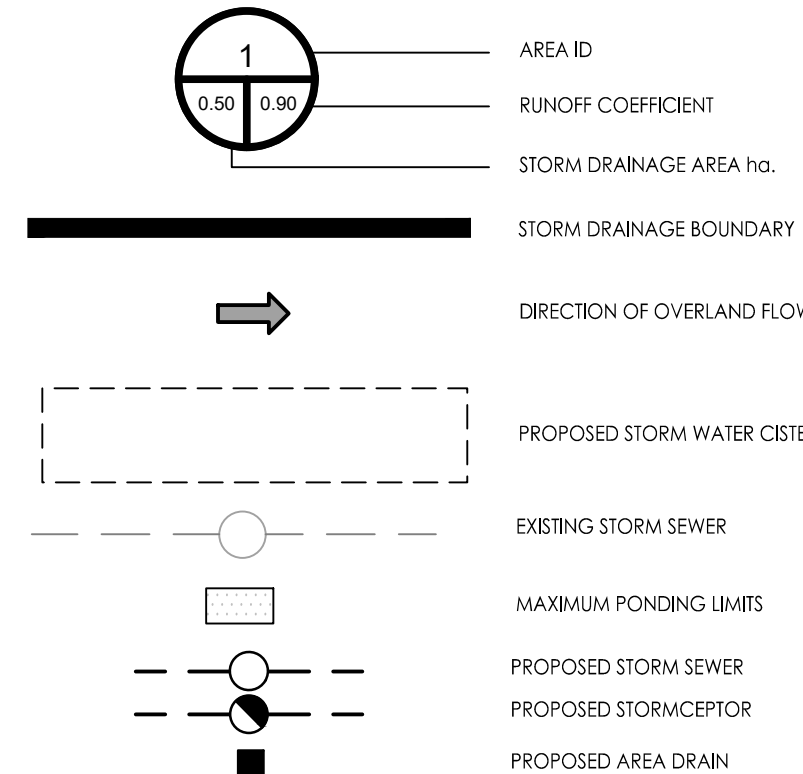
EROSION AND SEDIMENT CONTROL



GRADING



STORM DRAINAGE



4	REVISED AS PER CITY COMMENTS	JP	SSG	23.01.31
3	REVISED AS PER CITY COMMENTS	JP	SGG	22.11.04
2	REVISED AS PER CITY COMMENTS	JP	SGG	22.07.18
1	ISSUED FOR REVIEW	JP	SGG	22.03.14
Revision		By	Appd.	YY.MM.DD

File Name:	160401668-D81.dwg	JP	SGG	JP	21.04.28
		Dwn.	Chkd.	Dgn.	YY.MM.DD

Permit-Seal

Client/Project

HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

Ottawa, ON

Title

NOTES AND LEGEND

Project No.	Scale
160401668	
Drawing No.	Sheet
	Revision



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Legend

- EXISTING WATERMAIN
- EXISTING VALVE AND VALVE BOX
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING CATCHBASIN
- CHW — EXISTING OVERHEAD WIRE
- B — EXISTING OVERHEAD WIRE
- H — EXISTING OVERHEAD WIRE
- C — EXISTING OVERHEAD WIRE
- TV — EXISTING OVERHEAD WIRE
- ORIGINAL GROUND ELEVATIONS
- TOP OF CURB / WALL ELEVATION
- CURB TO BE REMOVED
- ASPHALT/CONCRETE/VEGETATION TO BE REMOVED
- EXISTING SEWERS TO BE REMOVED

- NOTES:**
- REFER TO LANDSCAPE PLAN FOR TREE REMOVALS.
 - REFER TO SIGNAGE PLAN PREPARED BY OTHERS FOR SIGNAGE RELOCATIONS.
 - CONTRACTOR TO LOCATE EXISTING SERVICES AND ANY CONFLICTS WITH EXISTING SERVICING MUST BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WITH CONSTRUCTION.
 - REMOVAL AND DISPOSAL OF EXISTING 300mmØ AND 200mmØ ASBESTOS CONCRETE PIPE TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
 - NEW SANITARY SEWER TO BE INSTALLED WITH TEMPORARY BYPASS FOR BUILDING A PRIOR TO REMOVAL OF EXISTING SANITARY SEWER - SEE SSP-1
 - NEW STORM SEWER TO BE INSTALLED PRIOR TO REMOVAL OF EXISTING STORM SEWER - SEE SSP-1

Revision	By	Appd.	YY.MM.DD
4	JP	SSG	23.01.31
3	JP	SGG	22.11.04
2	JP	SGG	22.07.18
1	JP	SGG	22.03.14
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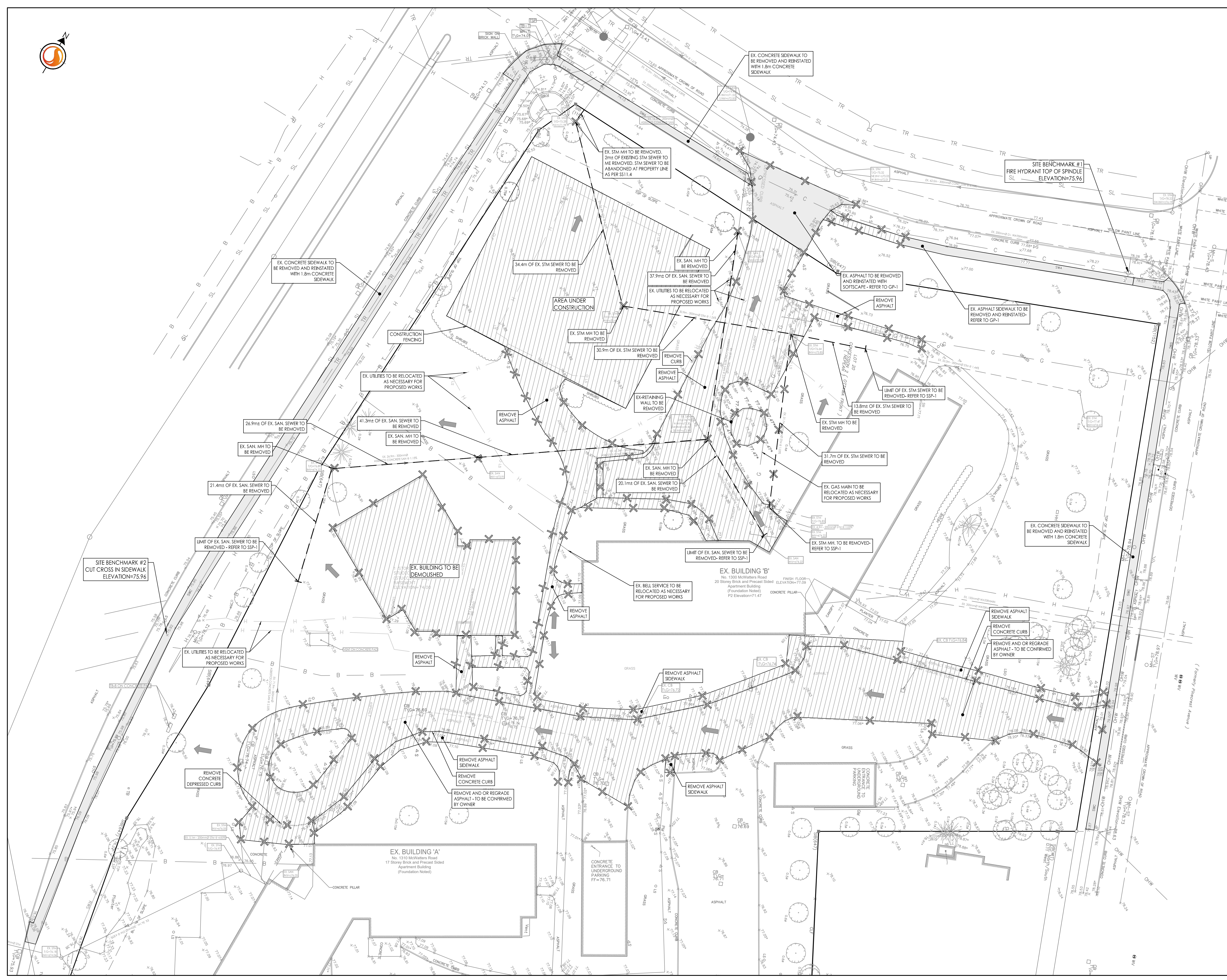
Client/Project
HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

Ottawa, ON

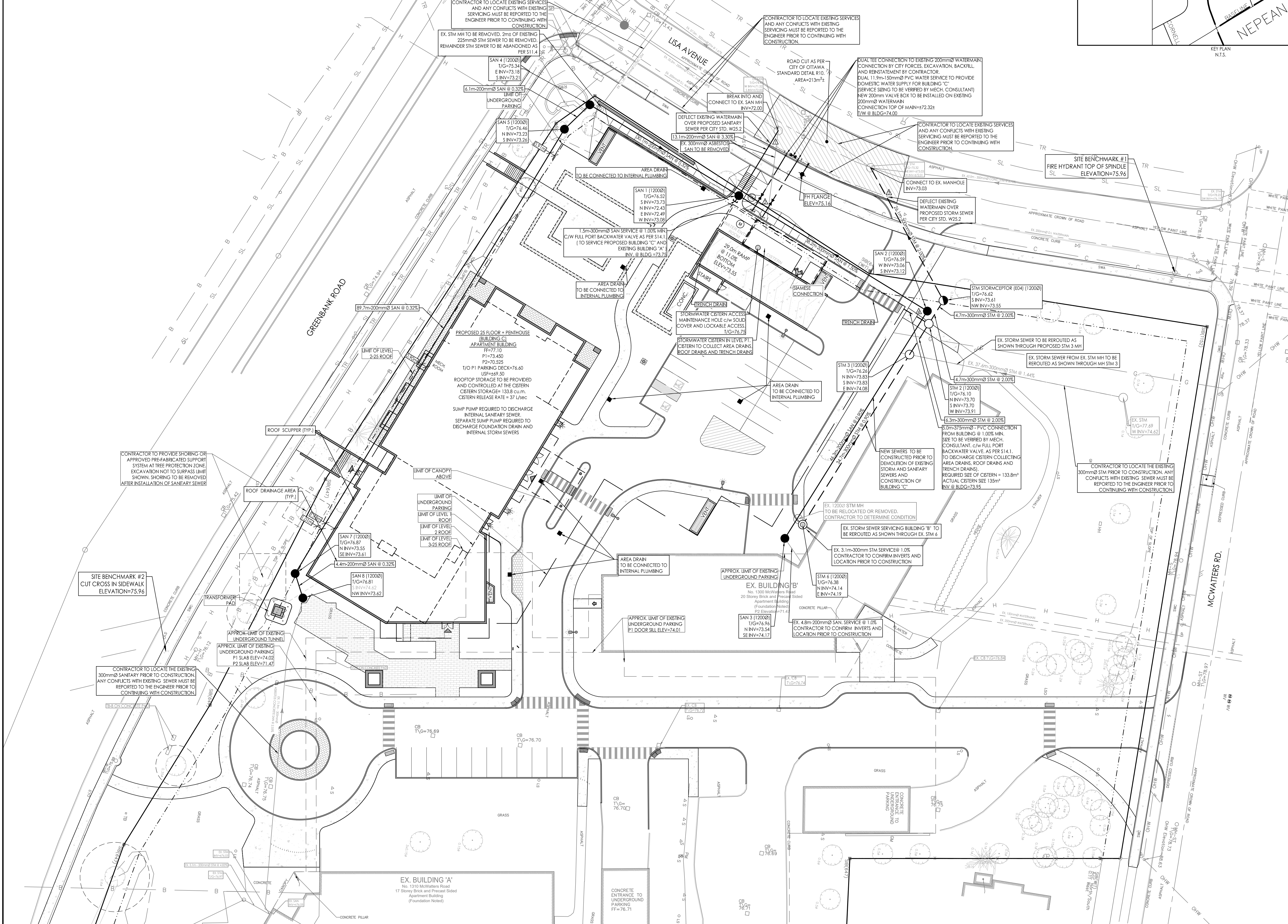
Title
EXISTING CONDITIONS AND REMOVALS PLAN

Project No.	Scale	Sheet	Revision
160401668	1:300	2 of 8	4
Drawing No.			PLAN # 18708



D07-12-22-0053

CROSSING	STM INV*	STM OSV*	SAN INV*	SAN OSV*	WTR TOP	WTR BSM	NOTES
1			72.04	72.24	72.69	73.54	CAUTION CONFLICT - CONTRACTOR TO DEFLECT EXISTING WATERMAIN OVER PROPOSED SANITARY SEWER PER CITY OF OTTAWA DETAIL W25.2
2			72.66	72.86	73.9	73.75	
3	73.11	73.45			73.9	73.75	CAUTION CONFLICT - CONTRACTOR TO DEFLECT EXISTING WATERMAIN OVER PROPOSED STORM SEWER PER CITY OF OTTAWA DETAIL W25.2
4	73.92	74.22	73.19	73.39			
5	73.93	74.23	73.51	73.71			



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Legend	
	PROPOSED WATERMAIN
	PROPOSED VALVE AND VALVE BOX
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORMCEPTOR
	PROPOSED AREA DRAIN
	EXISTING WATERMAIN
	EXISTING VALVE AND VALVE BOX
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING CATCHBASIN
	PROPOSED WATER METER
	PROPOSED REMOTE WATER METER
	EXISTING CABLE
	EXISTING BELL
	EXISTING TRENCH
	EXISTING TRAFFIC
	EXISTING HYDRO
	EXISTING STREETLIGHT
	PROPOSED RETAINING WALL - RETAINING WALLS GREATER THAN 1.0m IN HEIGHT TO BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. RAILING REQUIRED WHEN WALL IS 0.6m IN HEIGHT OR GREATER.
	PROPOSED DEPRESSED CURB LOCATION (TWS) AS PER SC 7.3

- NOTES:
- FINAL SERVICE LATERAL SIZE, LOCATION AND ELEVATION TO BE CONFIRMED BY MECHANICAL CONSULTANT.
 - SERVICE LATERALS TO CONNECT TO EXISTING MAIN AS PER CITY STANDARD S11.
 - CONTRACTOR TO LOCATE EXISTING SERVICES AND ANY CONFLICTS WITH EXISTING SERVICES MUST BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WITH CONSTRUCTION.
 - LOCATION OF EX. STORM, WATER AND SANITARY SERVICE WITHIN ON SITE TO BE CONFIRMED PRIOR TO CONSTRUCTION. SEWERS SHALL BE ROUTED/RECONNECTED AS SHOWN TO MAINTAIN SERVING TO EX. BUILDINGS.
 - SITE PLAN PREPARED BY RODERICK LAHEY ARCHITECT INC. DATED OCT 11, 2022.
 - TOPOGRAPHIC SURVEY SUPPLIED BY ANNIS, OSULLIVAN, VOLLEBEK LTD. DATED APRIL 16, 2021.
- JOB BENCHMARK:
- CUT CROSS IN SW ON GREENBANK ROAD SOUTH OF THE PROPOSED SITE WITH AN ELEVATION OF 75.96.
 - FIRE HYDRANT ON LISA AVE NORTH EAST OF THE PROPOSED SITE WITH A SPINDLE ELEVATION OF 79.26.
7. SITE RELEASE RATES
- TOTAL RELEASE RATE FROM SITE: 89.4 L/s
 - TOTAL PERMITTED RELEASE RATE: 90.3 L/s

Revision	By	Appd.	YY.MM.DD
4	JP	SSG	23.01.31
3	JP	SGG	22.11.04
2	JP	SGG	22.07.18
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 HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

Ottawa, ON

Title
 DETAILED SITE SERVICING PLAN

Project No.	Scale	Sheet	Revision
160401668	1:300		
Drawing No.			

SSP-1 3 of 8 4 PLAN # 18708

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Legend	
	ORIGINAL GROUND ELEVATIONS
	EXISTING TOP OF CURB / WALL ELEVATION
	PROPOSED ELEVATION
	EXISTING ELEVATION
	FLOW DIRECTION AND GRADE
	FINISHED FIRST FLOOR ELEVATION
	TOP OF FOUNDATION ELEVATION
	UNDERSIDE OF FOOTING ELEVATION
	TERRACING 3:1 SLOPE MAXIMUM (UNLESS OTHERWISE SHOWN)
	PROPOSED SWALE
	DIRECTION OF OVERLAND FLOW
	DIRECTION OF EXISTING OVERLAND FLOW
	EXISTING VALVE AND VALVE BOX
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING CATCHBASIN
	PROPOSED RETAINING WALL. RETAINING WALLS GREATER THAN 1.0m IN HEIGHT TO BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. RAILINGS REQUIRED WHEN WALL IS 0.6m IN HEIGHT OR GREATER.
	PROPOSED DEPRESSED CURB LOCATION
	PROPOSED VALVE BOX
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED STORM SEWER MANHOLE
	PROPOSED AREA DRAIN
	PROPOSED STORMCEPTOR
	LANDSCAPED AREA - REFER TO LANDSCAPED PLAN

- NOTES:
- SITE PLAN PREPARED BY RODERICK LAHEY ARCHITECT INC. DATED FEB 07, 2022.
 - TOPOGRAPHIC SURVEY SUPPLIED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED APRIL 16, 2021.
- JOB BENCHMARK:
- CUT CROSS IN S/W ON GREENBANK ROAD SOUTH OF THE PROPOSED SITE WITH AN ELEVATION OF 75.96.
 - FIRE HYDRANT ON LISA AVE NORTH EAST OF THE PROPOSED SITE WITH A TOP OF SPINDLE ELEVATION OF 79.26.
 - REFER TO DRAWING ECDS FOR OTTAWA CITY STANDARD DETAILS (SC 1.1 SC 7.1 ETC)

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4	JP	SSG	23.01.31
3	JP	SGG	22.11.04
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				YY.MM.DD

Client/Project
HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

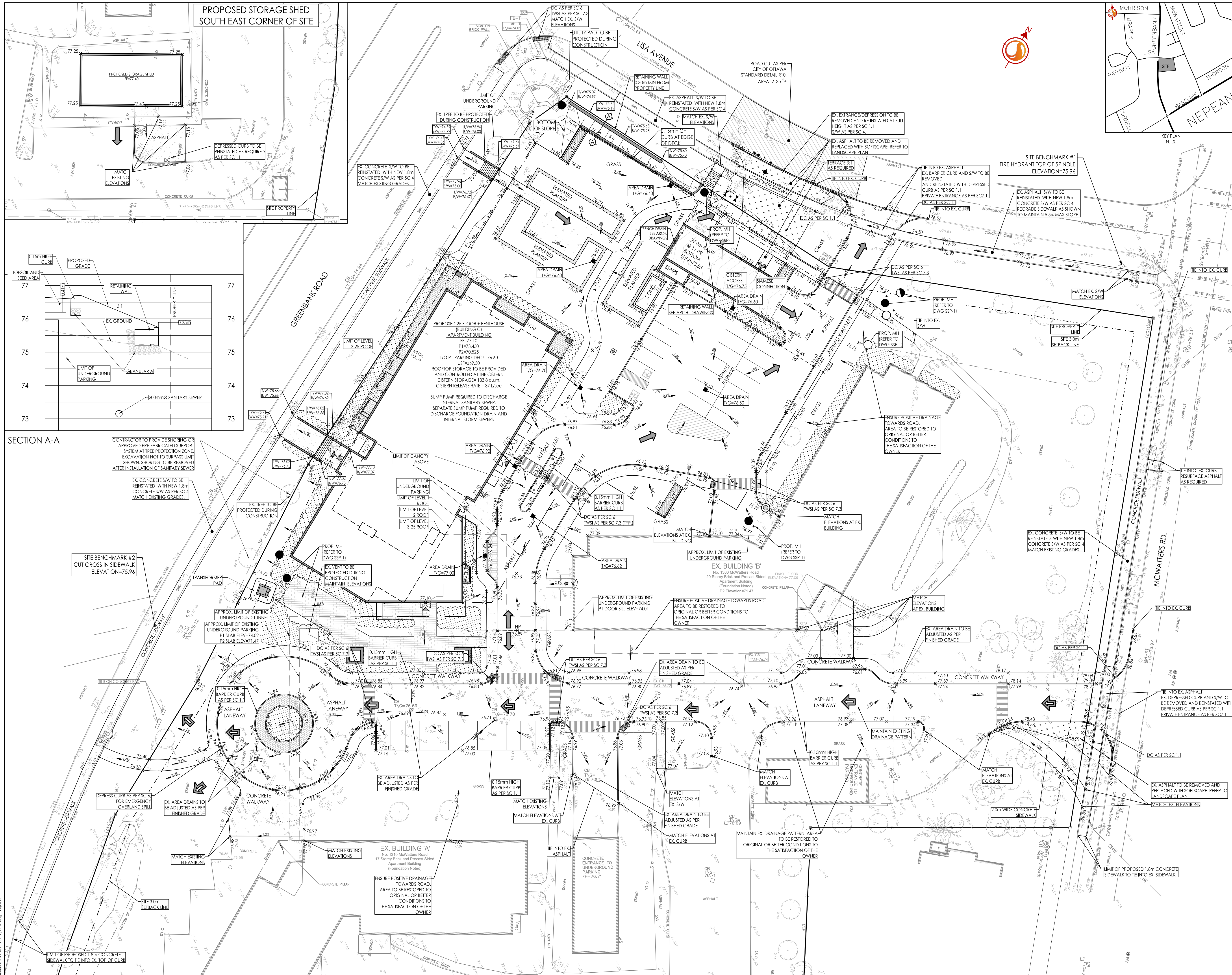
Ottawa, ON

Title
DETAILED
GRADING PLAN

Project No.	Scale
160401688	0 3 9 15m 1:300

Drawing No.	Sheet	Revision
GP-1	4 of 8	4

PLAN # 18708



2023/07/13 13:17 PM 1688 - Detailed Grading (160401688-081.dwg)
 Original Sheet - ARCH-D

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Legend

- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED HEAVY DUTY SILT FENCE AS PER OPSD 219.130
- PROPOSED CATCH BASIN PROTECTION AS PER DETAIL
- PROPOSED MUD MAT LOCATION

Best Management Practices

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES.

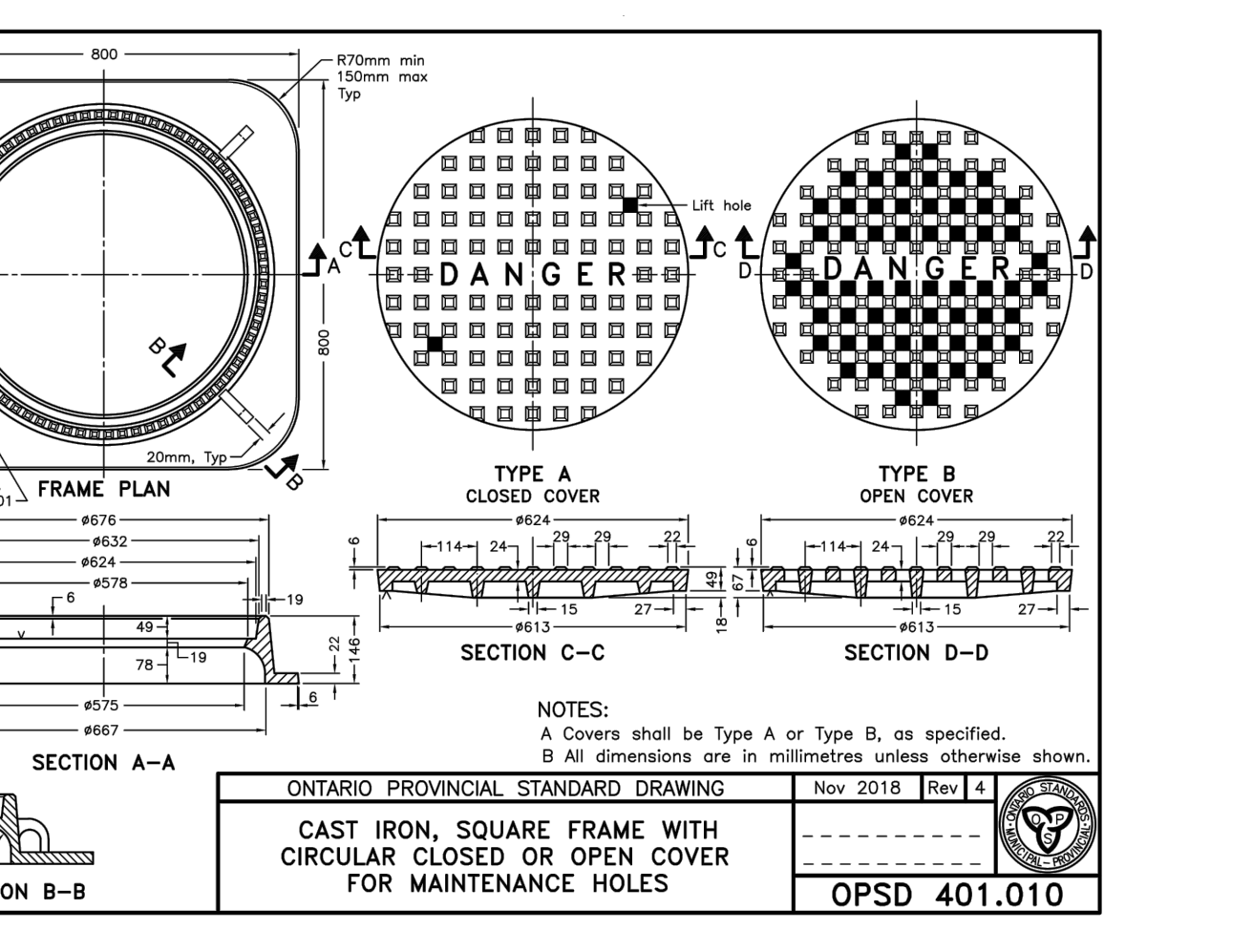
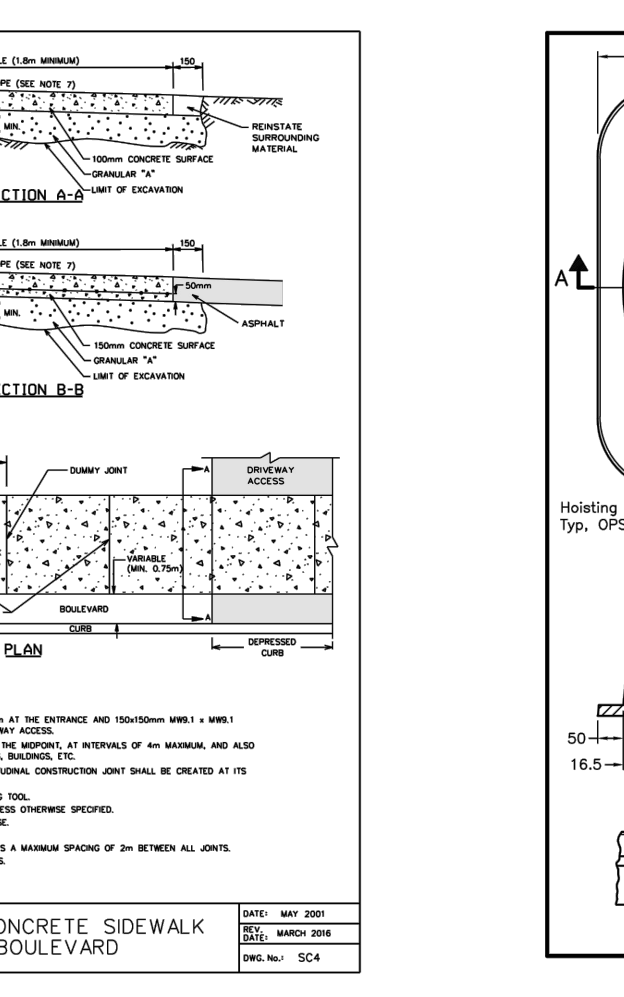
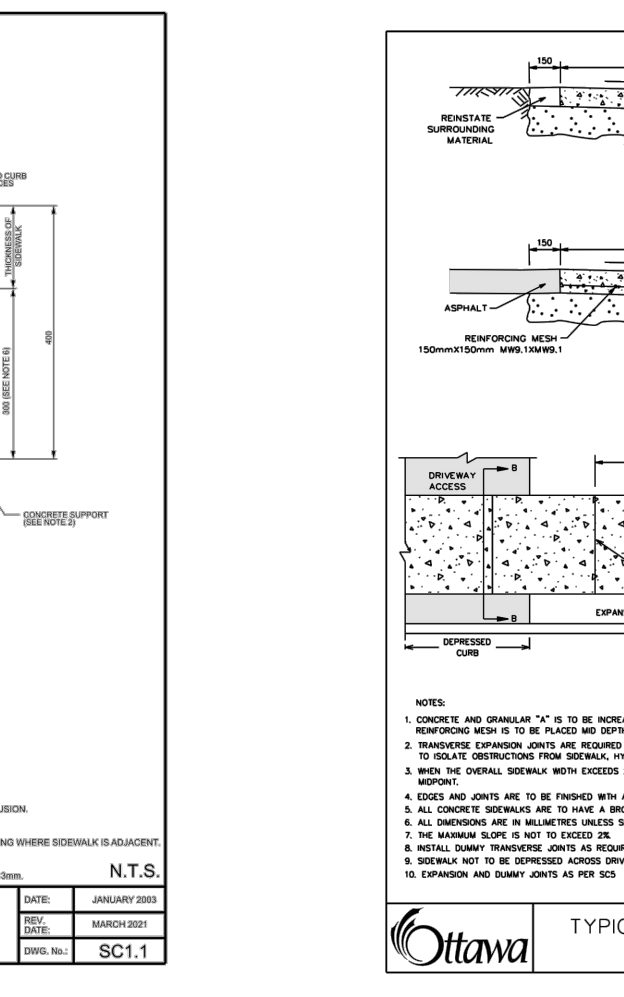
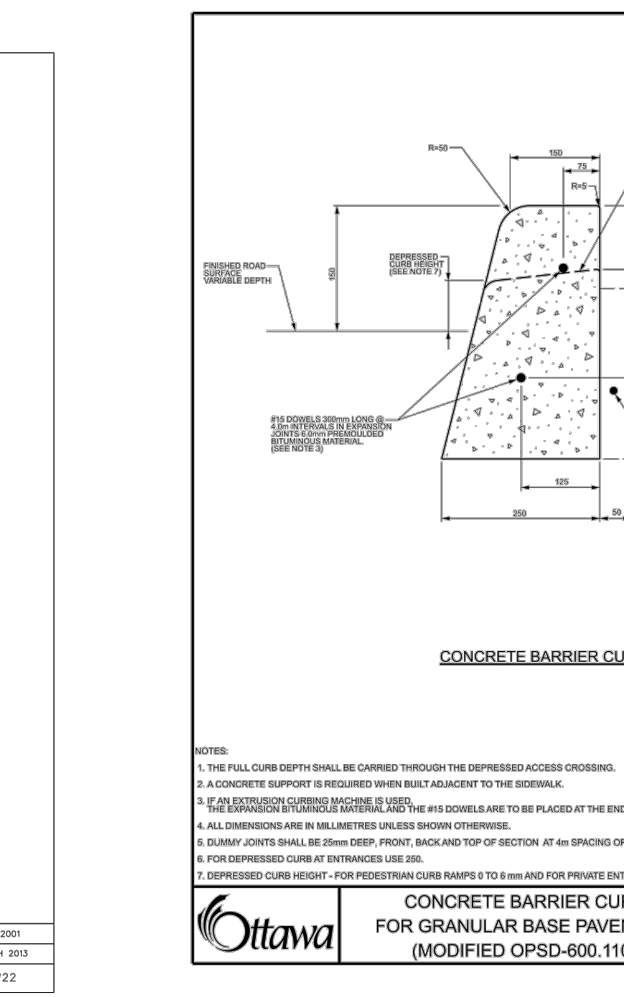
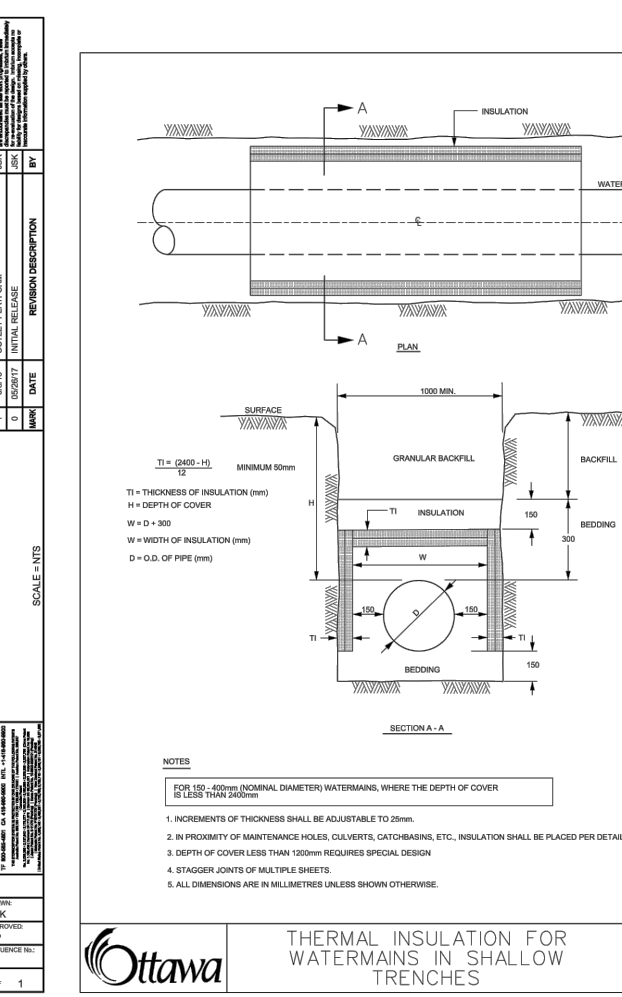
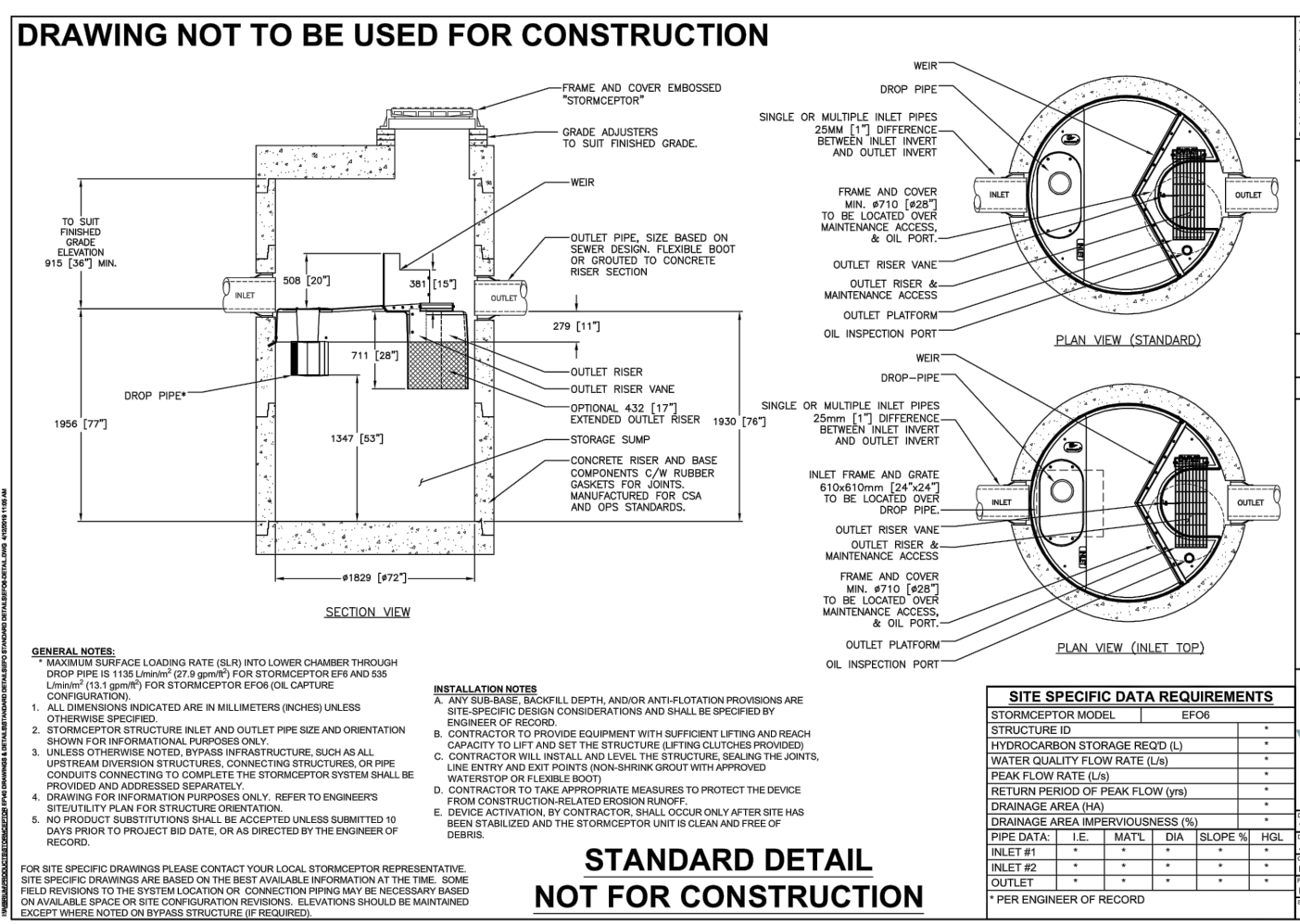
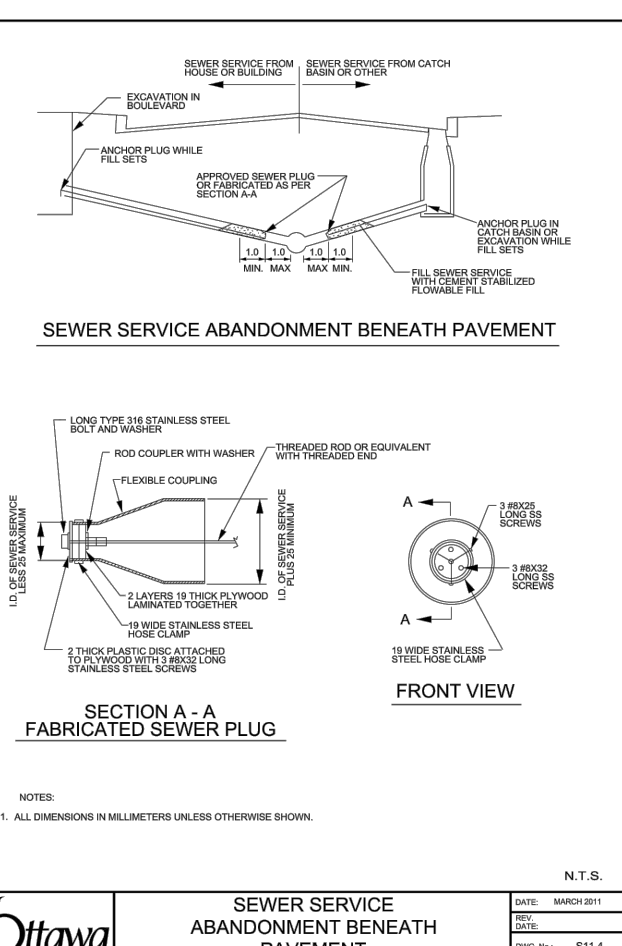
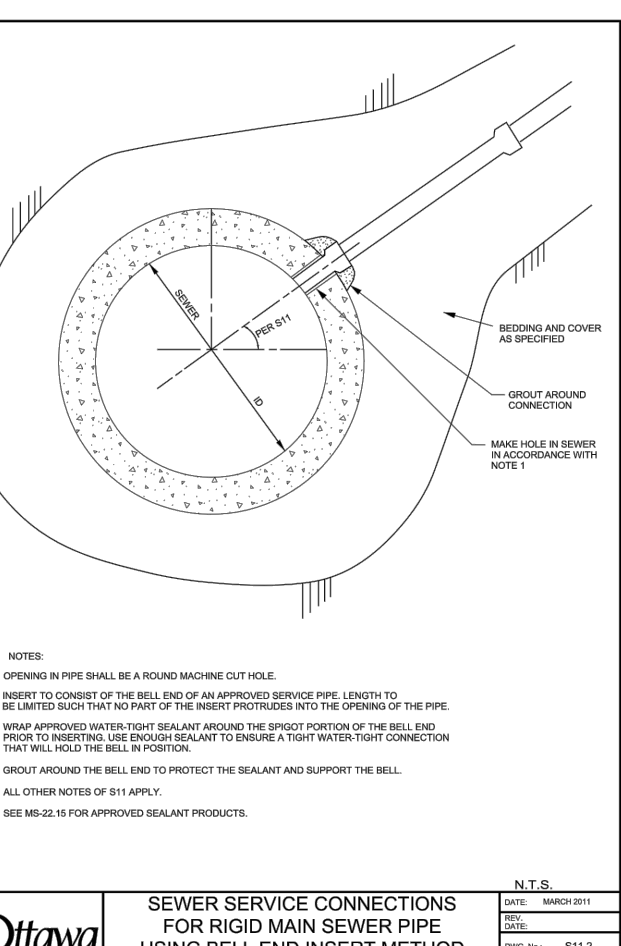
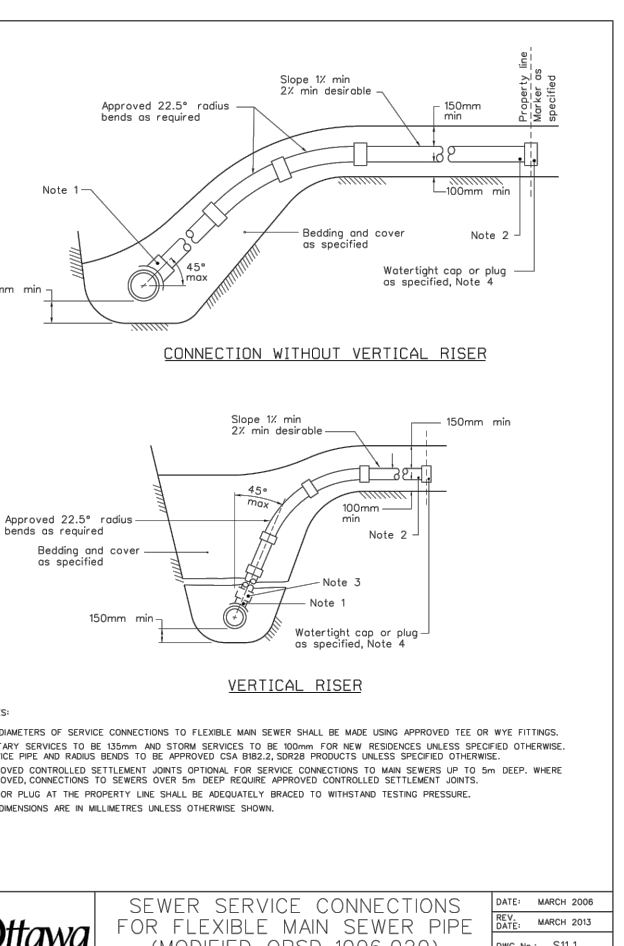
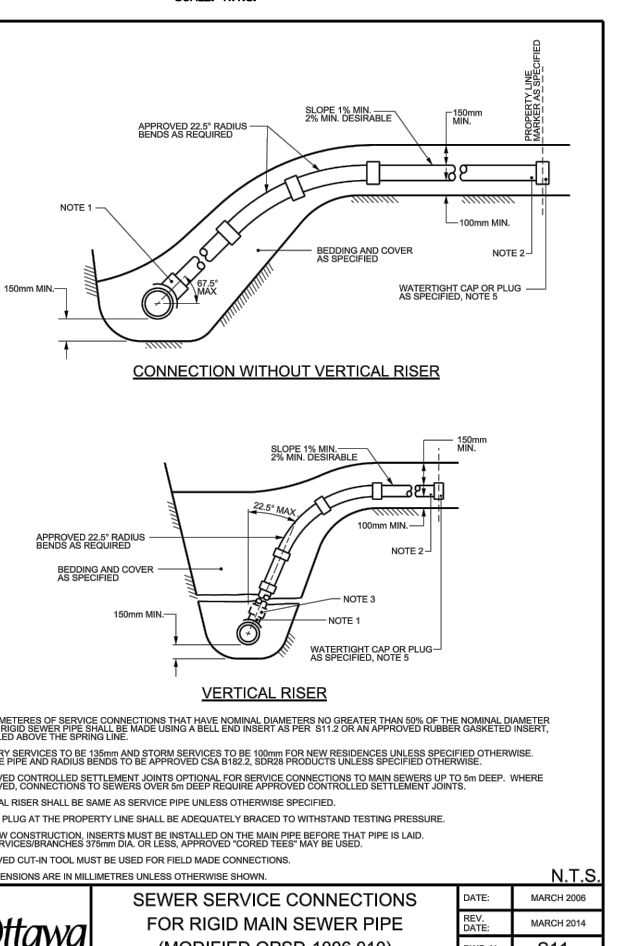
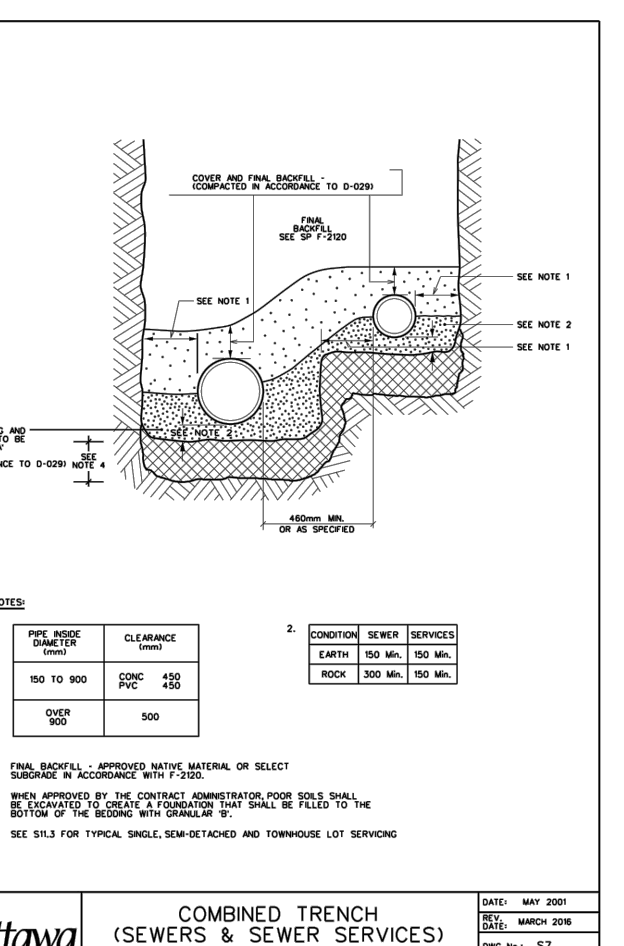
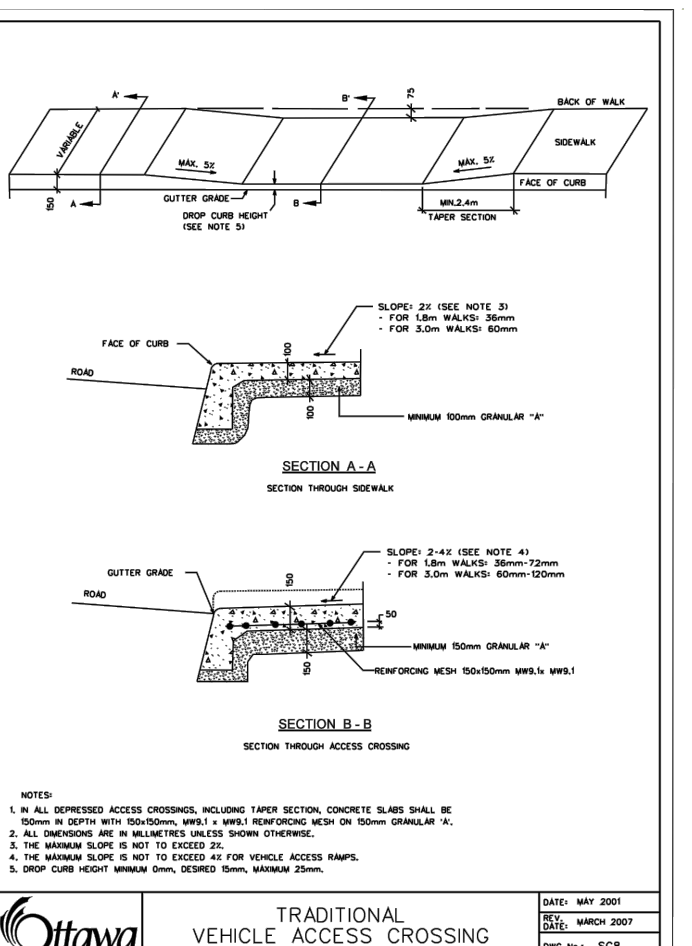
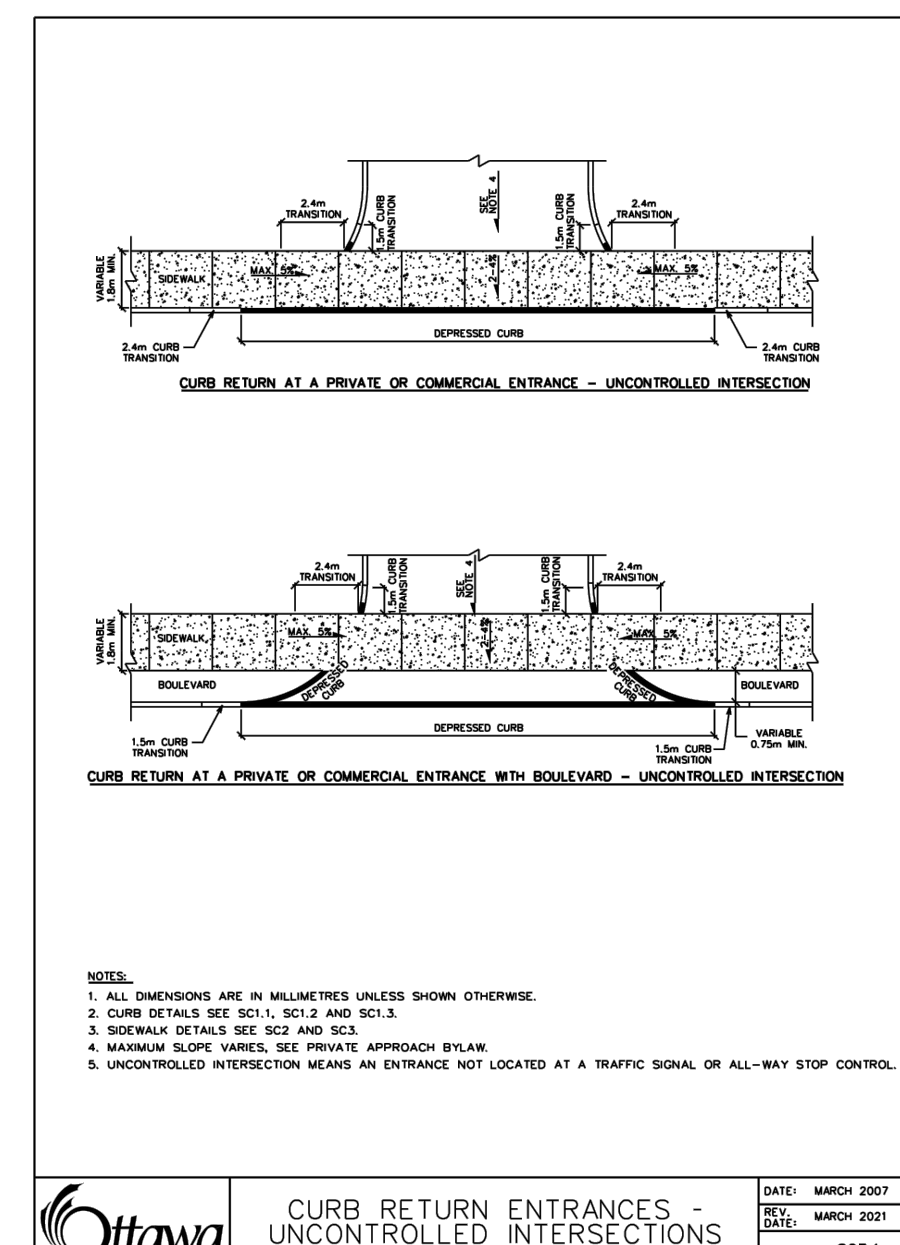
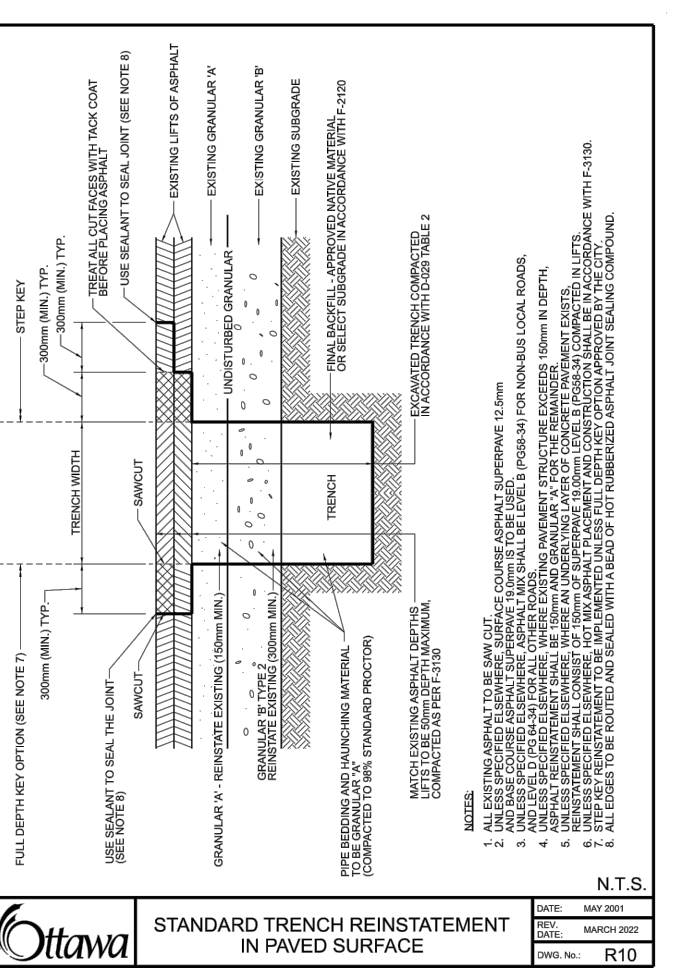
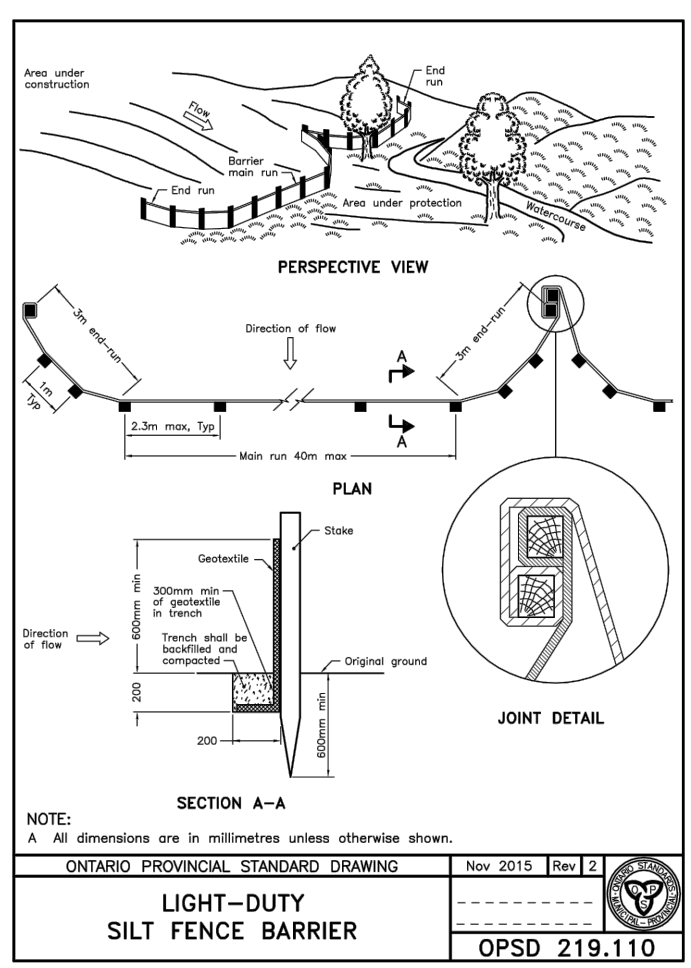
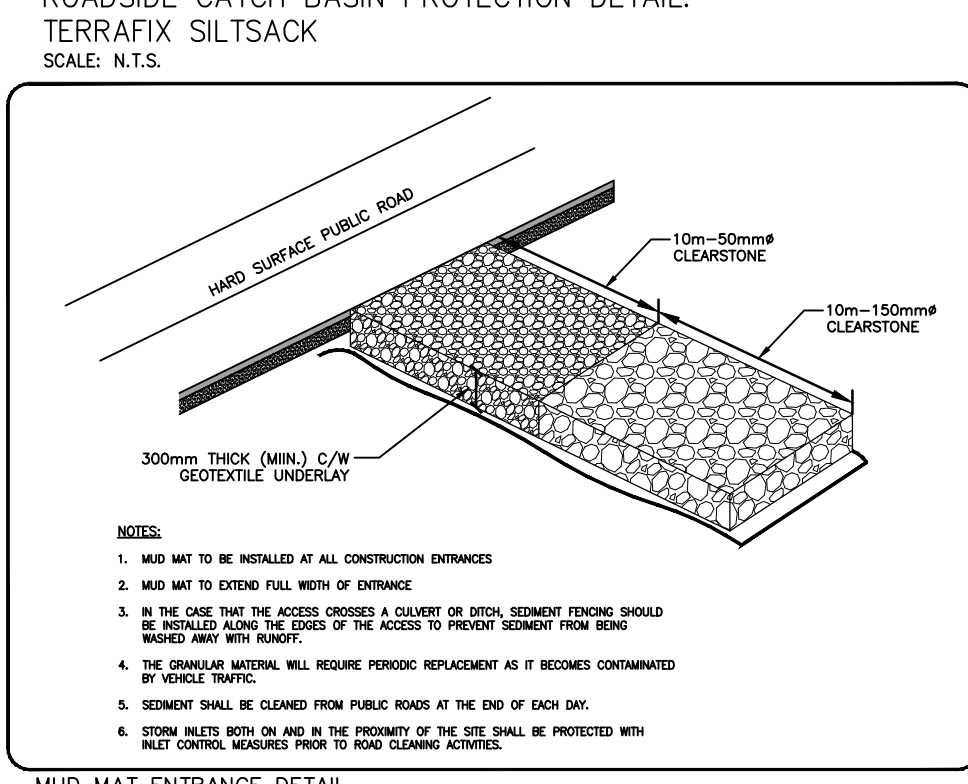
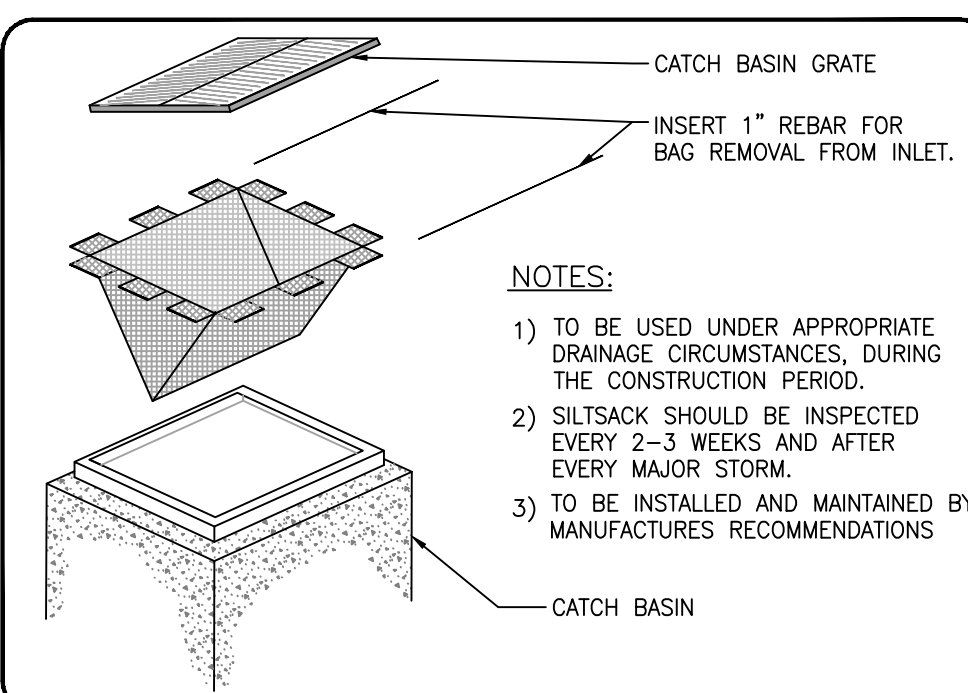
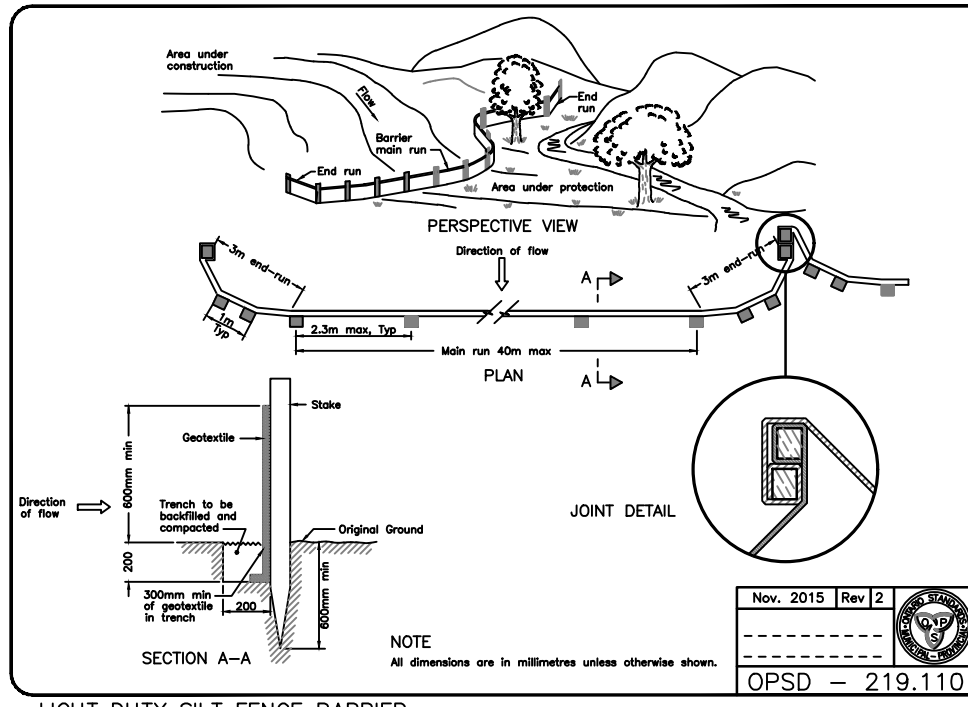
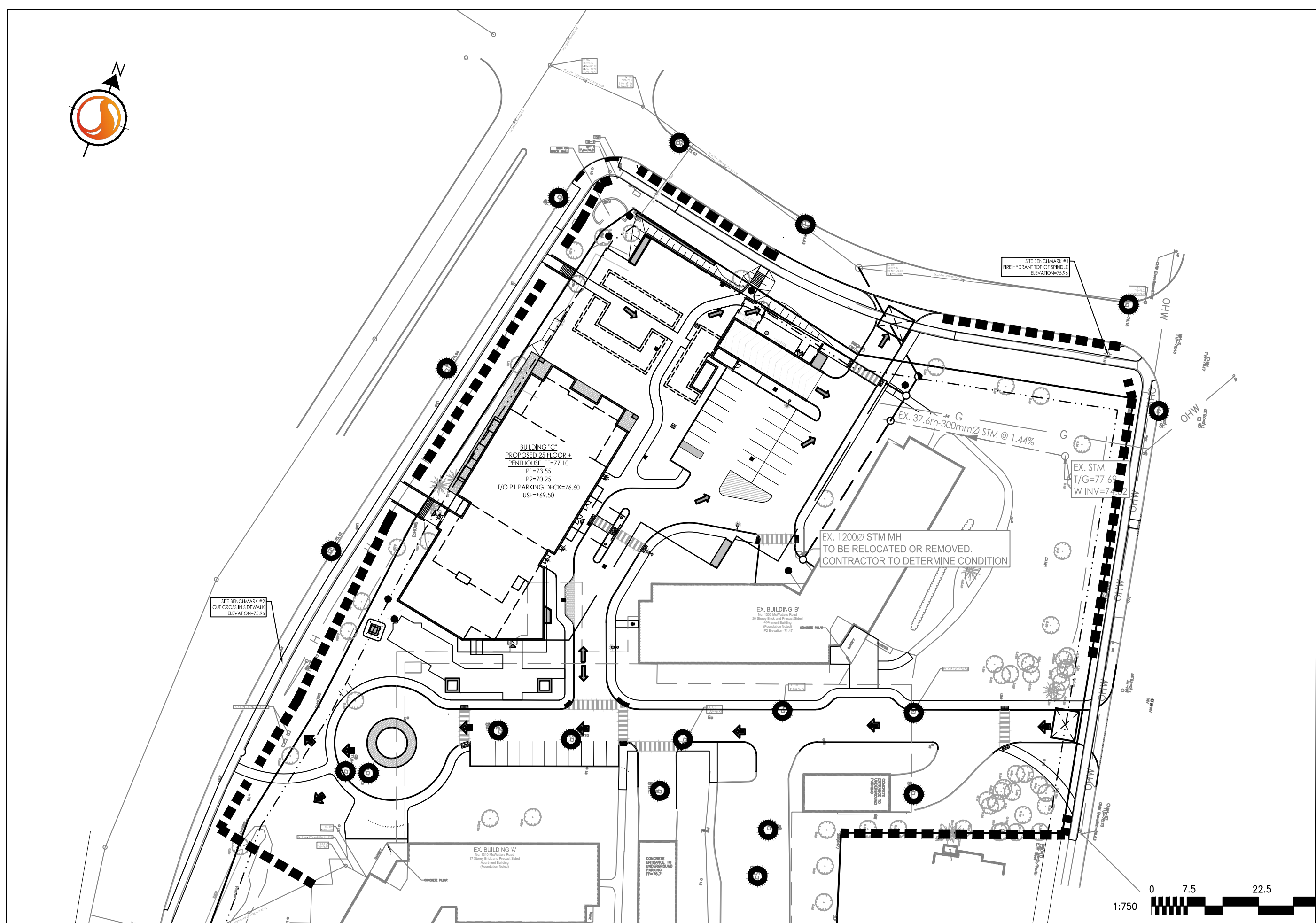
THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

1. LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
2. REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
3. MINIMIZE AREA TO BE CLEARED AND GRUBBED.
4. PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
5. INSTALL CATCH BASIN INSERTS OR EQUIVALENT IN ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND IN ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE.
6. A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO BE DETERMINED)
7. A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
8. SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS. ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS, OR DOWNSTREAM WATERCOURSES.
9. NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING WATERWAY.
10. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
11. THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
12. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
13. CONTRACTOR SHALL INSTALL MUD MATS AT ENTRANCE TO THE SITE.
14. STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.
15. C/S ARE TO BE INSPECTED FOLLOWING RAINFALL EVENTS AND ACCUMULATED SEDIMENT IS TO BE REMOVED.

4	REVISED AS PER CITY COMMENTS	JP	SSG	23.01.31
3	REVISED AS PER CITY COMMENTS	JP	SSG	22.11.04
2	REVISED AS PER CITY COMMENTS	JP	SSG	22.07.18
1	ISSUED FOR REVIEW	JP	SSG	22.03.14

Revision By Appd. TY.MM.DD



Client/Project
HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

Ottawa, ON

Title
EROSION CONTROL PLAN AND
DETAILS SHEET

Project No. 160401668
Scale AS SHOWN

Drawing No. EC/DS-1
Sheet 5 of 8

Revision PLAN # 18708

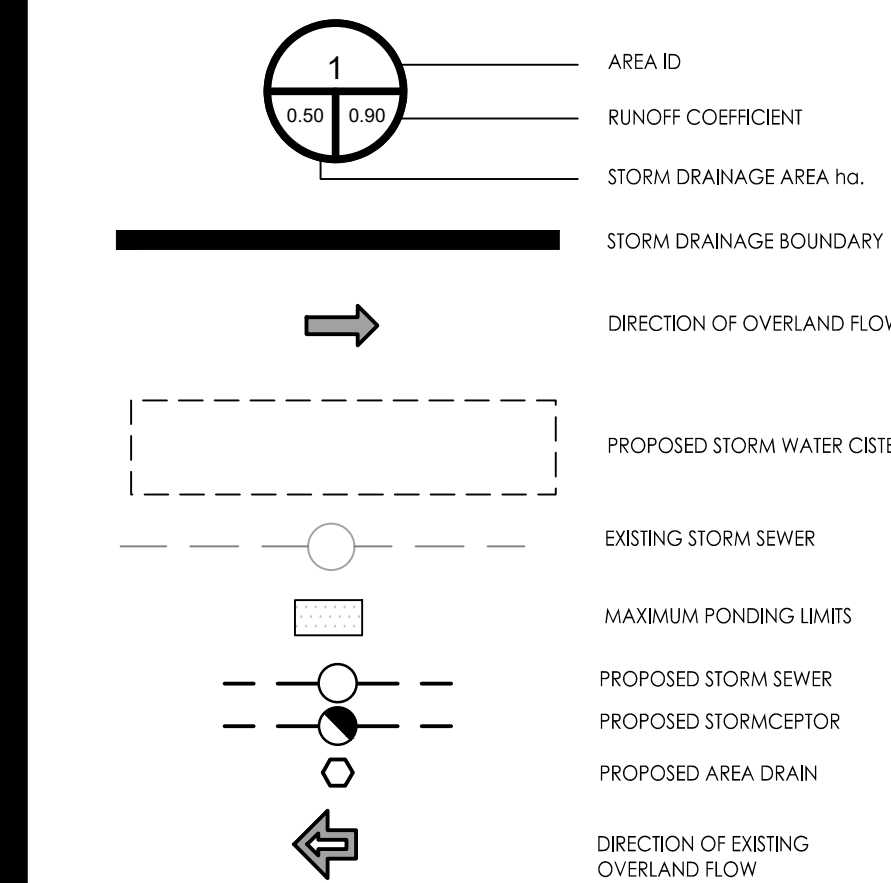
D07-12-22-003



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Legend



Notes

- ROOF TO BE EQUIPPED WITH RESTRICTED RELEASE ROOF DRAINS FOR ROOFTOP STORAGE.
- FLOOR DRAINS IN AREA-1 TO BE CONNECTED TO BUILDINGS INTERNAL PLUMBING SYSTEM.
- PROPOSED BUILDING SERVICE SIZES TO BE CONFIRMED WITH THE MECHANICAL CONSULTANT.

4	REVISED AS PER CITY COMMENTS	JP	SSG	23.01.31
3	REVISED AS PER CITY COMMENTS	JP	SGG	22.11.04
2	REVISED AS PER CITY COMMENTS	JP	SGG	22.07.18
1	ISSUED FOR REVIEW	JP	SGG	22.03.14
Revision		By	Appd.	YY.MM.DD

File Name:	160401668-D81.dwg	JP	SSG	JP	21.04.28
		Dwn.	Chkd.	Dgn.	YY.MM.DD

Permit-Seal

Client/Project
HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

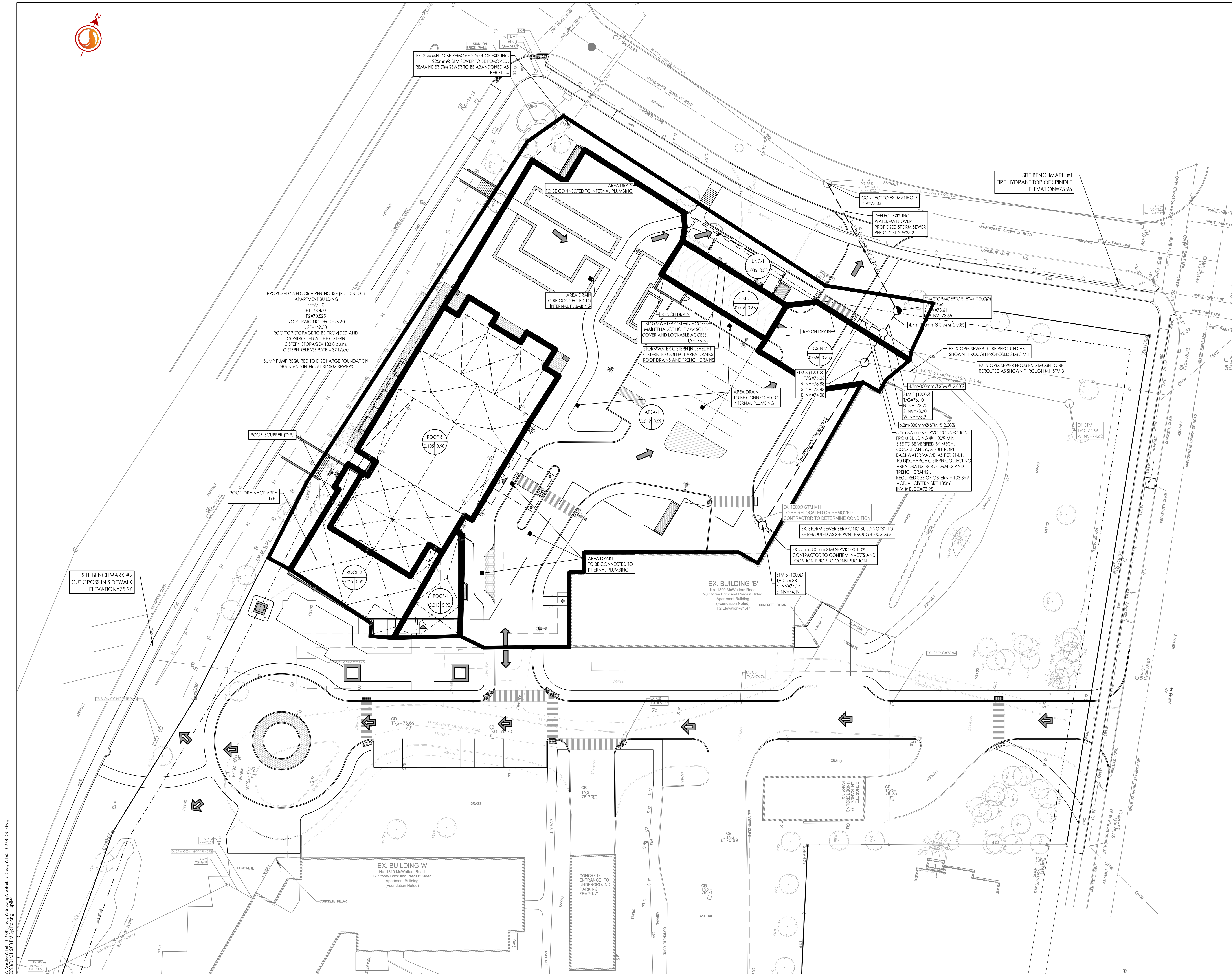
Ottawa, ON

Title
DETAILED
STORM DRAINAGE PLAN

Project No. 160401668
Scale 1:300

Drawing No. Sheet 6 of 8
Revision

SD-1 6 of 8 4 PLAN # 18708



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2022/07/31 3:08 PM by P.Bohling, J.Bohling

Legend

- AREA ID
- POPULATION
- SANITARY DRAINAGE AREA No.
- SANITARY DRAINAGE AREA
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER

Notes

1. FACTORED POPULATION COUNTS FOR BUILDING A AND BUILDING B ARE CONSERVATIVE AND WILL BE CONFIRMED AT A LATER DATE

Revision	By	Appd.	YY.MM.DD
4	JP	SSG	23.01.31
3	JP	SGG	22.11.04
2	JP	SGG	22.07.18
1	JP	SGG	22.03.14

File Name:	JP	SGG	JP	21.04.28
160401668-D81.dwg	Dwn.	Chkd.	Dgn.	YY.MM.DD

Permit-Seal

Client/Project

HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

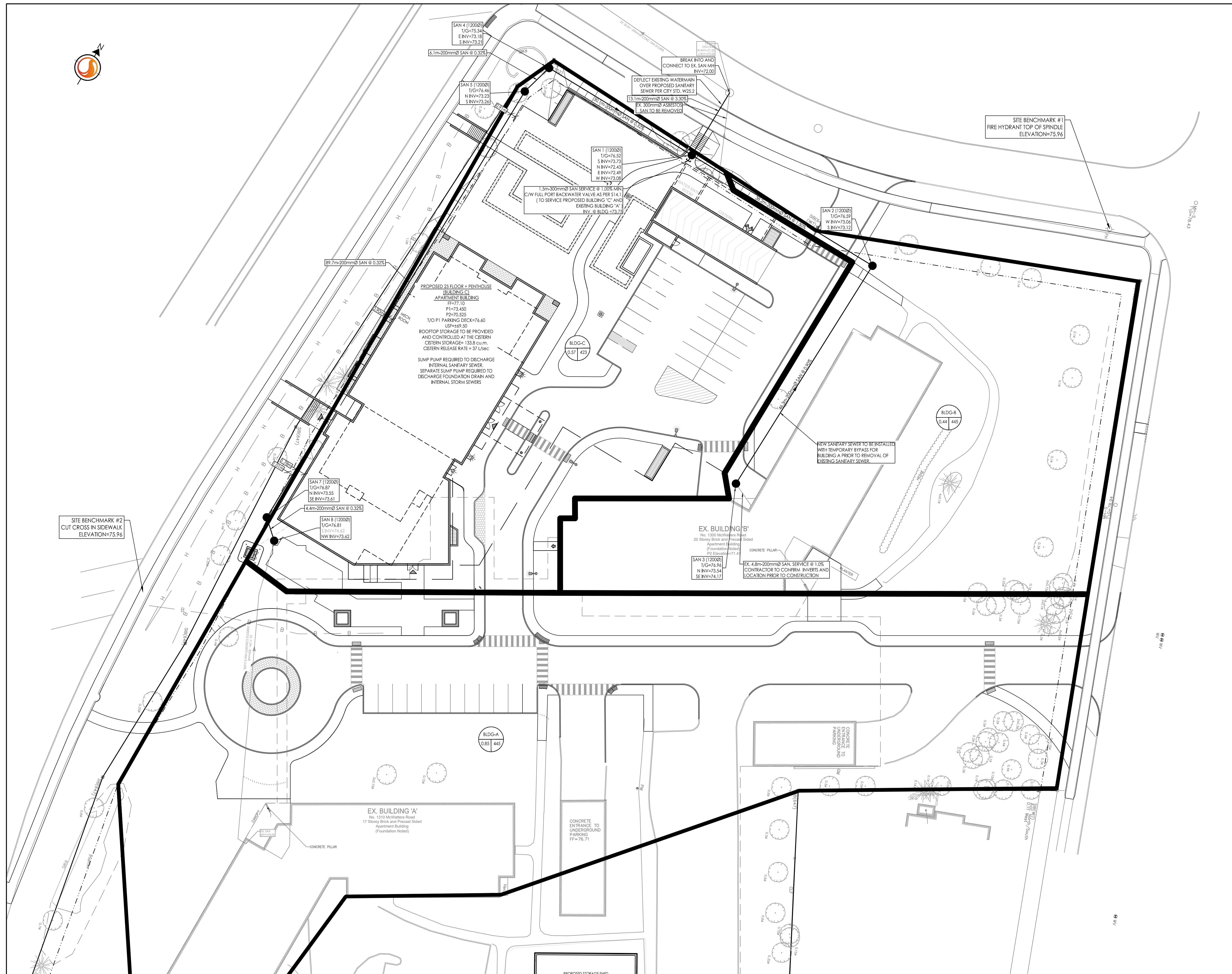
Ottawa, ON

Title

DETAILED
SANITARY DRAINAGE PLAN

Project No.	Scale	Sheet	Revision
160401668	1:300	7 of 8	4

SA-1 PLAN # 18708



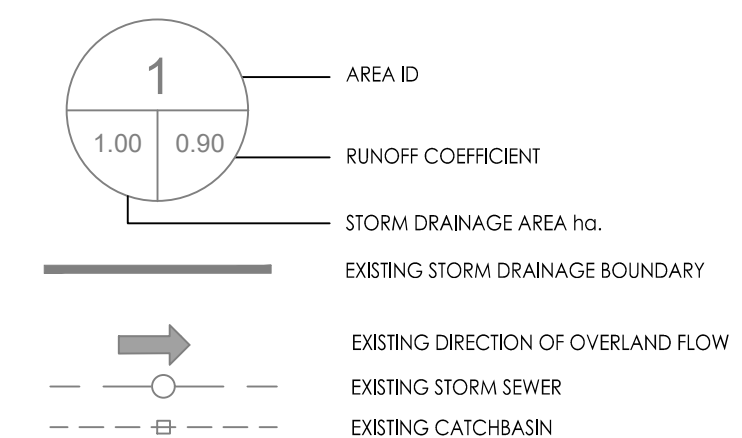
D07-12-22-0053



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Legend



Revision	By	Appd.	YY.MM.DD
4	JP	SGG	23.01.31
3	JP	SGG	22.11.04
2	JP	SGG	22.07.18
1	JP	SGG	22.03.14

File Name:	JP	SGG	JP	21.04.28
160401668-D81.dwg	Dwn.	Chkd.	Dgn.	YY.MM.DD

Permit-Seal

Client/Project
HOMESTEAD LAND HOLDINGS LIMITED

1300 & 1310 McWATERS ROAD

Ottawa, ON

Title

EXISTING STORM DRAINAGE PLAN

Project No.	Scale	0	5	15	25m
160401668	1:500				

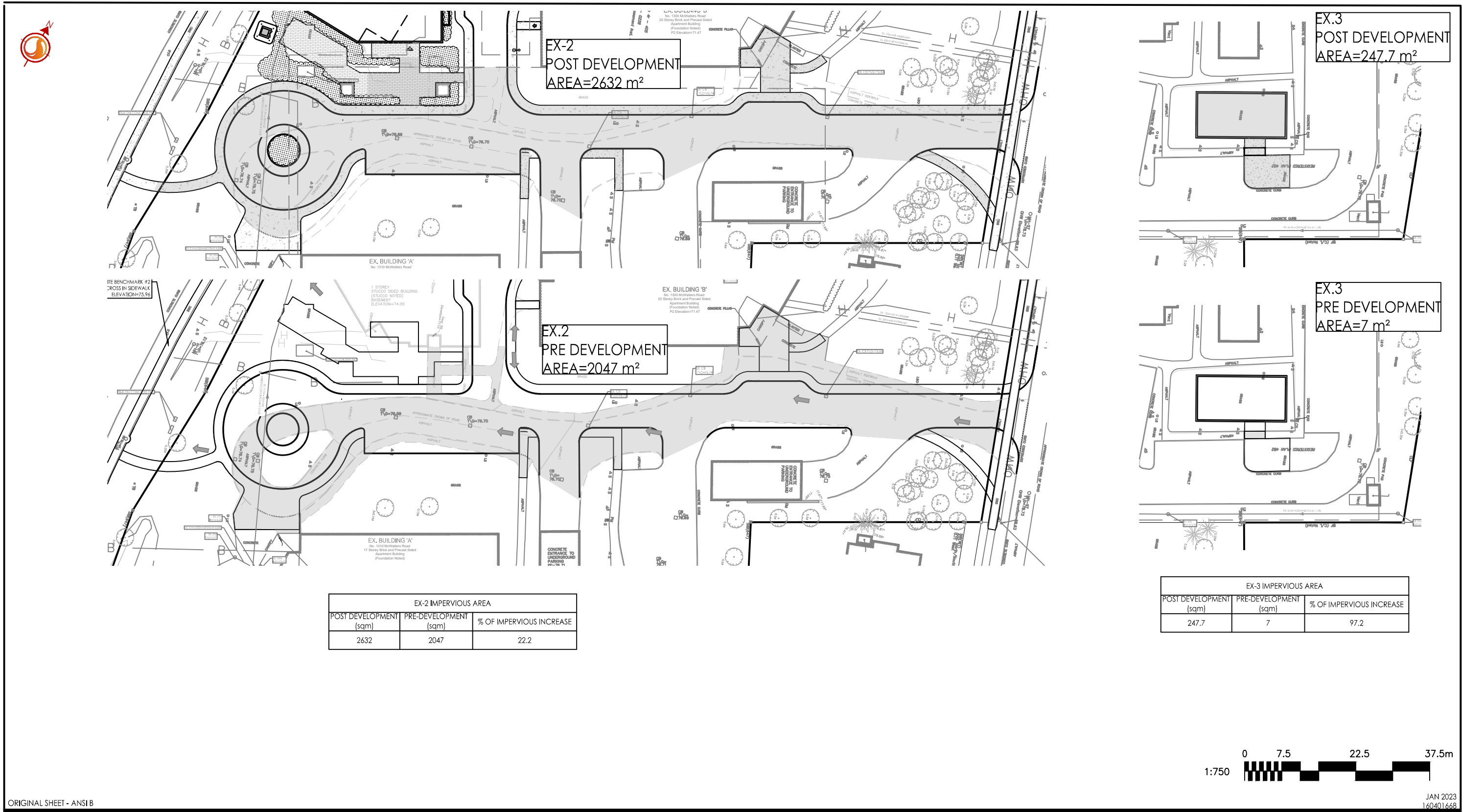
Drawing No.	Sheet	Revision
EX-SD-1	8 of 8	4

PLAN # 18708

D07-12-22-0053

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2023/01/13 11:49:56
2023/01/13 11:49:56

W:\active\160401668\design\drawing\detalled Design\160401668-DB1.dwg
 2023/01/31 3:18 PM By: Palangi, Jupiter



EX-2 IMPERVIOUS AREA		
POST DEVELOPMENT (sqm)	PRE-DEVELOPMENT (sqm)	% OF IMPERVIOUS INCREASE
2632	2047	22.2

EX-3 IMPERVIOUS AREA		
POST DEVELOPMENT (sqm)	PRE-DEVELOPMENT (sqm)	% OF IMPERVIOUS INCREASE
247.7	7	97.2



JAN 2023
 160401668