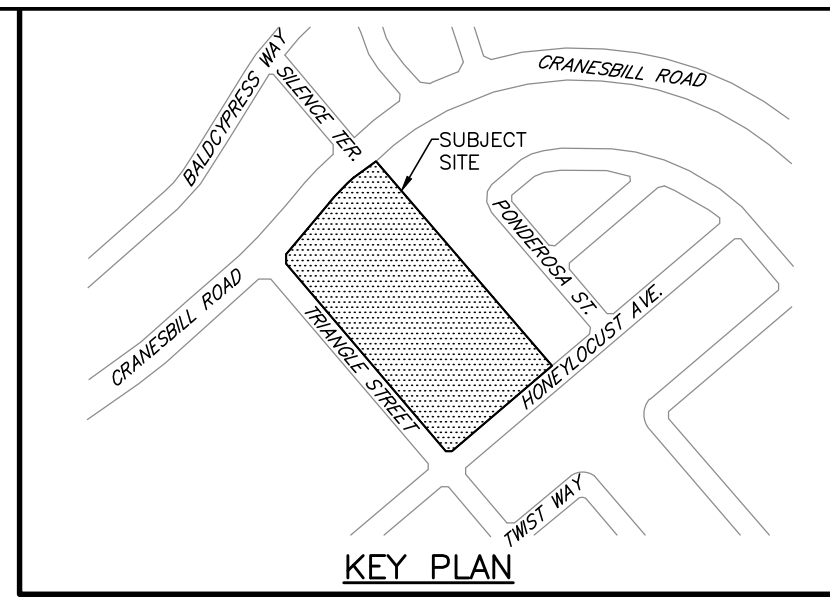
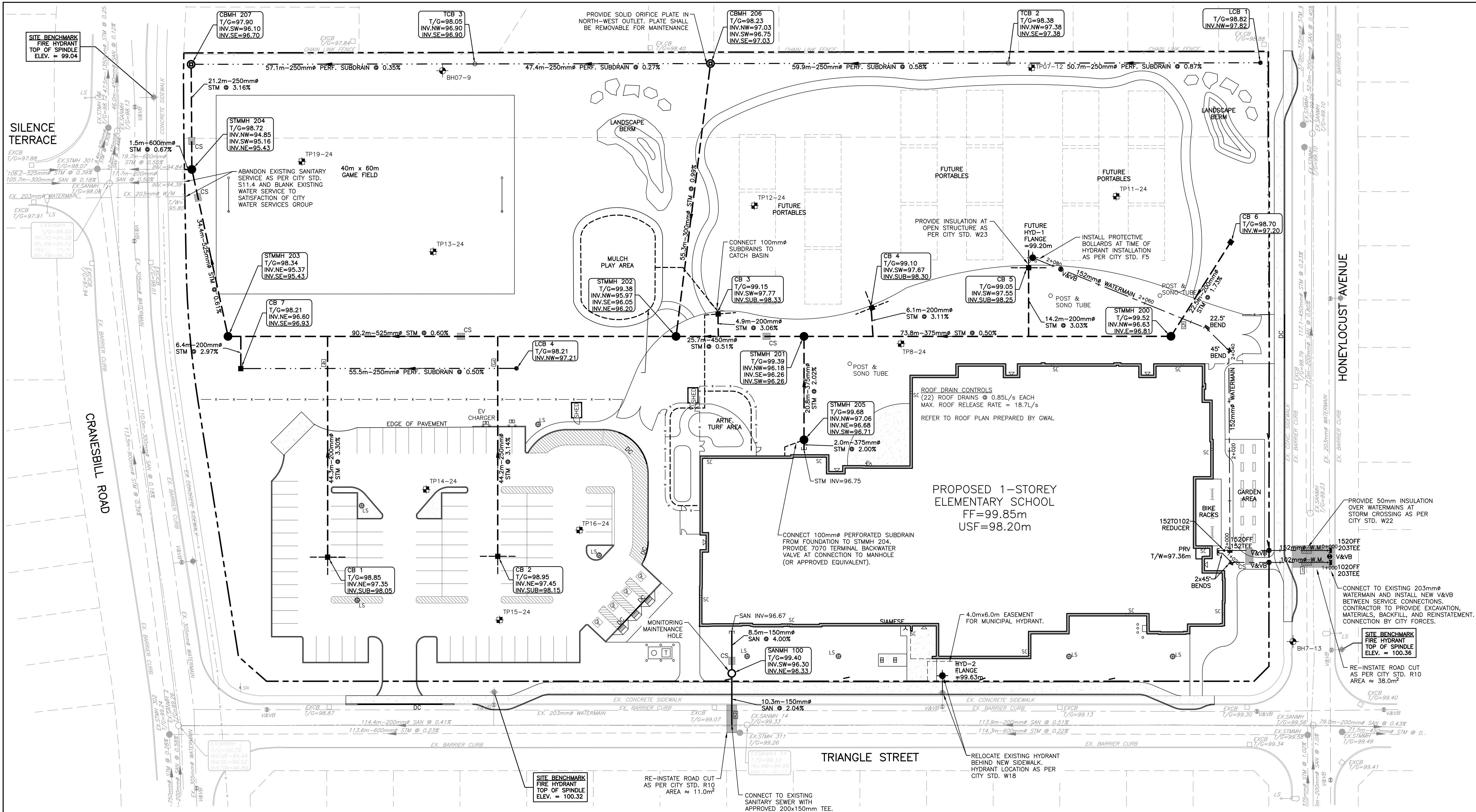
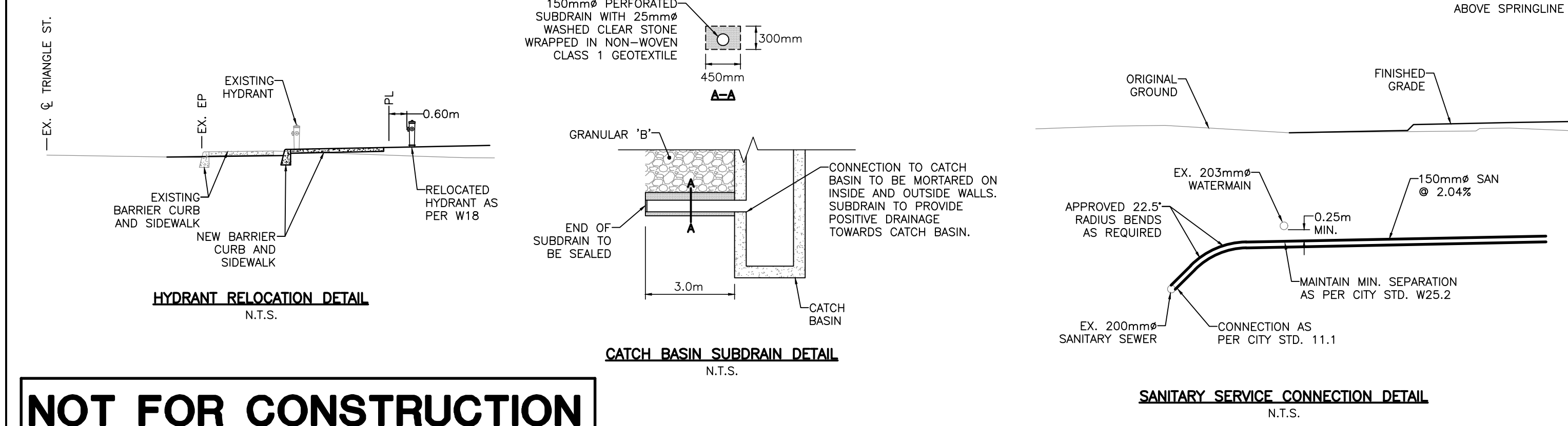




- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING HYDRANT
 - EXISTING CATCH BASIN
 - EXISTING WATERMAIN
 - EXISTING VALVE & VALVE BOX
 - EXISTING SANITARY SEWER & MANHOLE
 - EXISTING STORM SEWER & MANHOLE
 - EXISTING LIGHT STANDARD
 - EXISTING HYDRO
 - PROPOSED HYDRANT
 - WATERMAIN
 - VALVE & VALVE BOX
 - PRESSURE REDUCING VALVE
 - SIAMENSE CONNECTION
 - CATCH BASIN WITH 3.0m-150mm SUBDRAIN STUBS
 - CATCH BASIN MANHOLE
 - TEE LANDSCAPE CATCH BASIN (CITY STD. S30)
 - ELBOW LANDSCAPE CATCH BASIN (CITY STD. S31)
 - SANITARY SEWER & MANHOLE (WATERTIGHT COVER)
 - STORM SEWER & MANHOLE
 - SWALE WITH 250mm PERFORATED SUBDRAIN
 - CLAY SEAL (CITY STD. S8)
 - LIGHT STANDARD (REFER TO SITE PLAN)
 - ROOF SCUPPER
 - FENCE (REFER TO SITE PLAN)
 - BUILDING ENTRANCE
 - CROSSING NUMBER
 - INSULATION (AS PER CITY STD. W22/S35)
 - BOREHOLE (REFER TO GEOTECHNICAL REPORT)
 - TEST PIT (REFER TO GEOTECHNICAL REPORT)



INLET CONTROL DEVICE (ICD) TABLE				
STRUCTURE	2-YR HEAD (m)	2-YR OUTFLOW (L/s)	ORIFICE DIAMETER (mm)	ORIFICE TYPE
CB 1	1.40	30.0	109	CIRCULAR, SLIDE
CB 2	1.37	60.0	155	CIRCULAR, SLIDE
CB 3	1.28	20.0	91	CIRCULAR, SLIDE
CB 4	1.33	40.0	128	CIRCULAR, SLIDE
CB 5	1.40	30.0	109	CIRCULAR, SLIDE
CB 6	1.40	11.7	n/a	TEMPEST LMF 105
CB 7	1.40	20.0	89	CIRCULAR, SLIDE
CBMH206	1.33	87.0	189	CIRCULAR, SLIDE
CBMH207	1.67	10.4	n/a	TEMPEST LMF 95

CROSSING TABLE			
CROSSING No.	SERVICE	INVERT/OVERT	SEPARATION (m)
1	WATER (TWIN)	96.99	0.25
	EX STORM	96.74	
2	EX WATER	96.63	0.30
	SANITARY	96.33	
3	SUBDRAIN	97.17	0.65
	STORM	96.52	
4	SUBDRAIN	96.99	0.68
	STORM	96.31	
5	STORM	96.88	0.50
	WATER	96.38	

152mm WATERMAIN GRADE TABLE - HYDRANT LEAD				
STATION	FINISHED GRADE (m)	TOP OF WATER (m)	COVER DEPTH (m)	COMMENTS
2+000	99.70	97.30	2.40	152mm OFF 203mm TEE
2+010	99.49	97.09	2.40	TOP OF WATERMAIN
2+020	99.36	96.96	2.40	TOP OF WATERMAIN
2+030	99.35	96.95	2.40	TOP OF WATERMAIN
2+040.3	99.25	96.85	2.40	45° HORIZONTAL BEND
2+046.6	99.24	96.84	2.40	22.5° HORIZONTAL BEND
2+051.8	99.35	96.38	2.97	STORM CROSSING
2+060	99.42	97.02	2.40	TOP OF WATERMAIN
2+070	99.27	96.87	2.40	TOP OF WATERMAIN
2+078.2	99.13	96.73	2.40	VALVE & VALVE BOX
2+084.3	99.10	96.70	2.40	HYDRANT

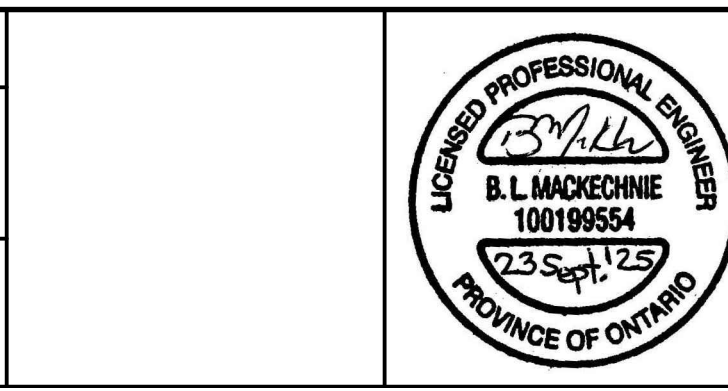
152mm WATERMAIN GRADE TABLE - BUILDING SERVICE 1				
STATION	FINISHED GRADE (m)	TOP OF WATER (m)	COVER DEPTH (m)	COMMENTS
0+000	99.27	96.86	2.41	152mm OFF 203mm TEE
0+004.7	99.37	97.14	2.23	EXISTING STORM CROSSING
0+012.2	99.47	97.07	2.40	VALVE & VALVE BOX
0+020.1	99.70	97.30	2.40	152mm OFF 152mm TEE
0+021.6	99.74	97.34	2.40	152mm TO 102mm REDUCER
0+022.6	99.76	97.36	2.40	CAP
102mm WATERMAIN GRADE TABLE - BUILDING SERVICE 2				
STATION	FINISHED GRADE (m)	TOP OF WATER (m)	COVER DEPTH (m)	COMMENTS
1+000	99.31	96.91	2.40	152mm OFF 203mm TEE
1+004.7	99.41	97.14	2.27	EXISTING STORM CROSSING
1+012.2	99.56	97.16	2.40	VALVE & VALVE BOX
1+019.8	99.73	97.33	2.40	45° HORIZONTAL BEND
1+021.5	99.75	97.35	2.40	45° HORIZONTAL BEND
1+022.5	99.76	97.36	2.40	CAP

NOTES

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SCALE			
2	REVISED PER CITY COMMENTS	23/09/25	BLM
1	ISSUED FOR REVIEW	03/04/25	BLM
NO.	REVISION DESCRIPTION	DATE	BY



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DESIGN BLM
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APPROVED BLM

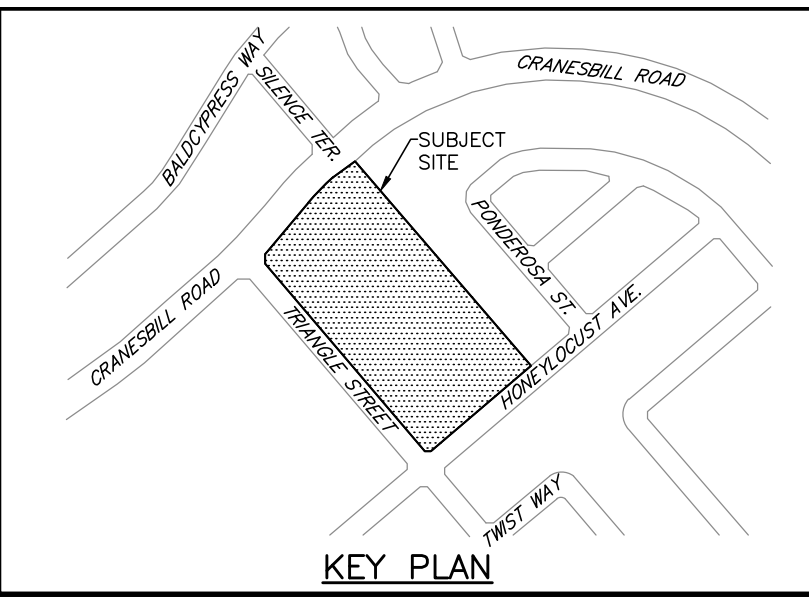
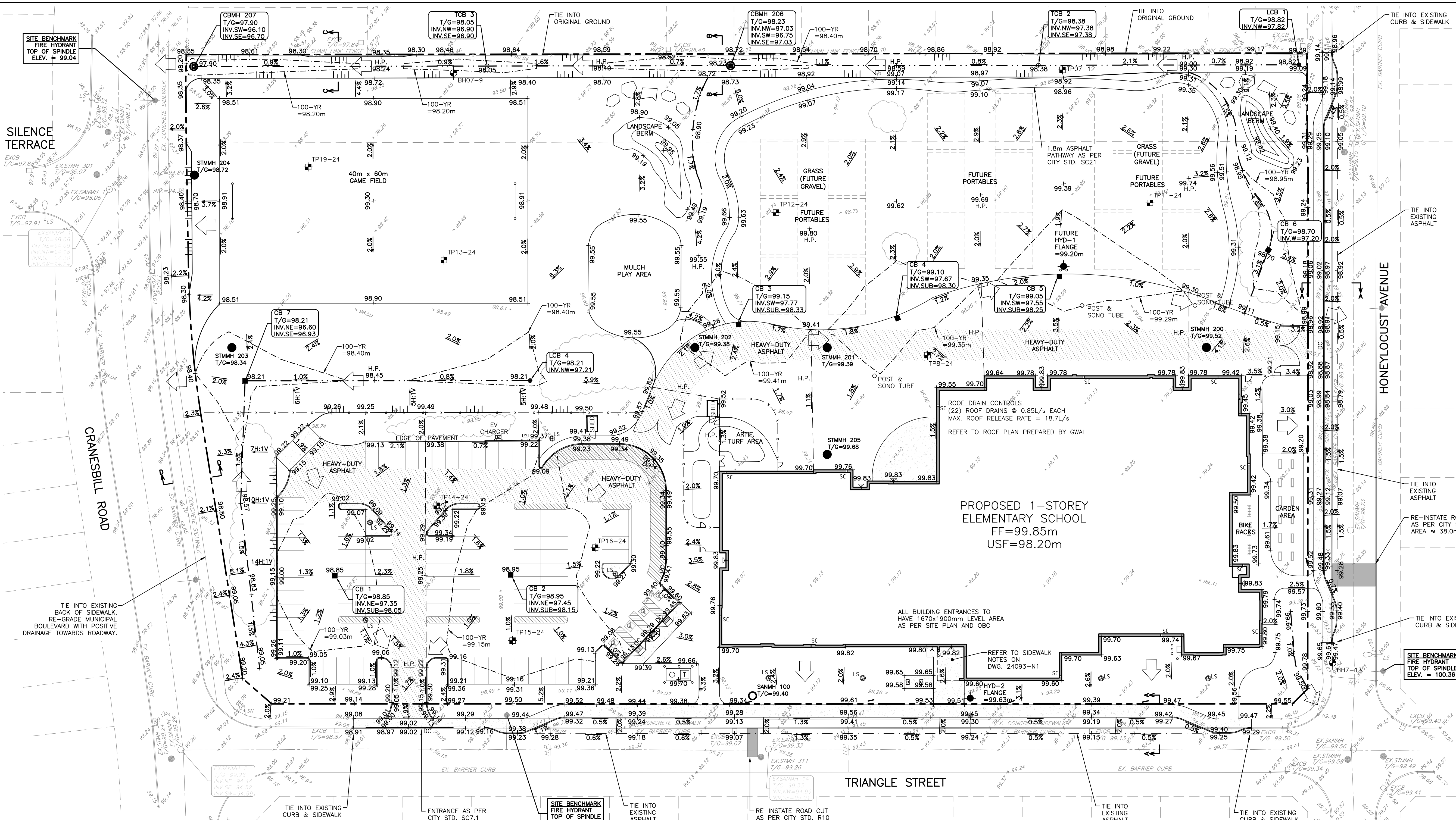
OTTAWA CATHOLIC SCHOOL BOARD

**FERNBANK NORTH
ELEMENTARY SCHOOL**

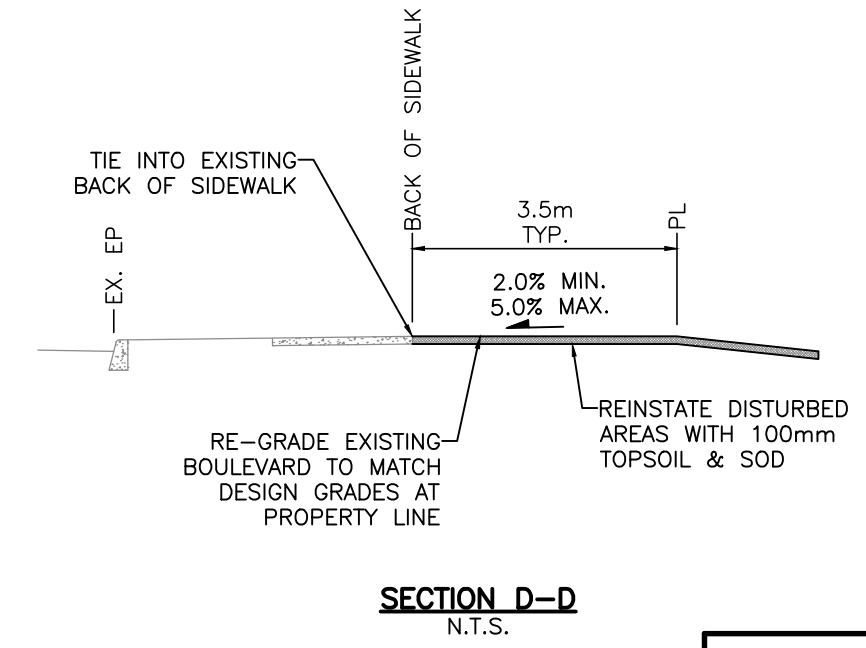
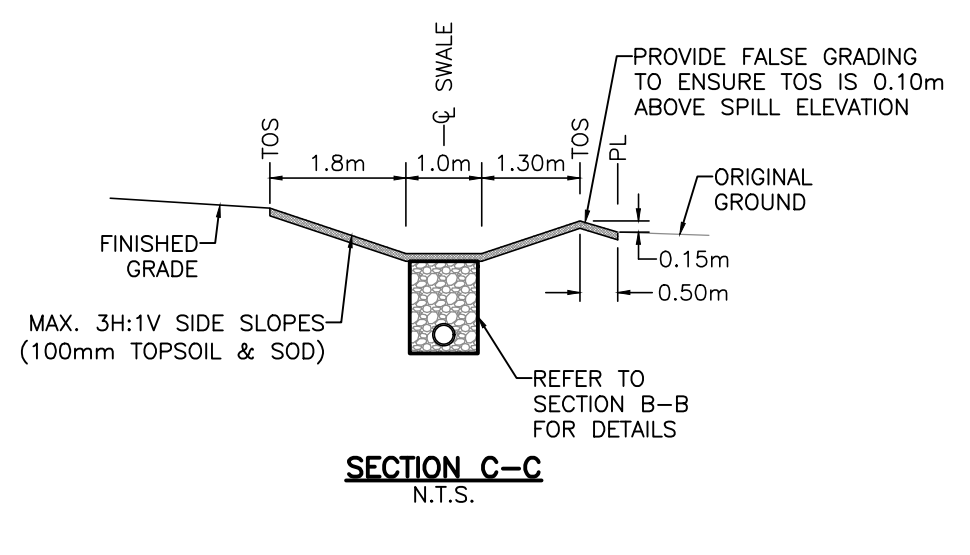
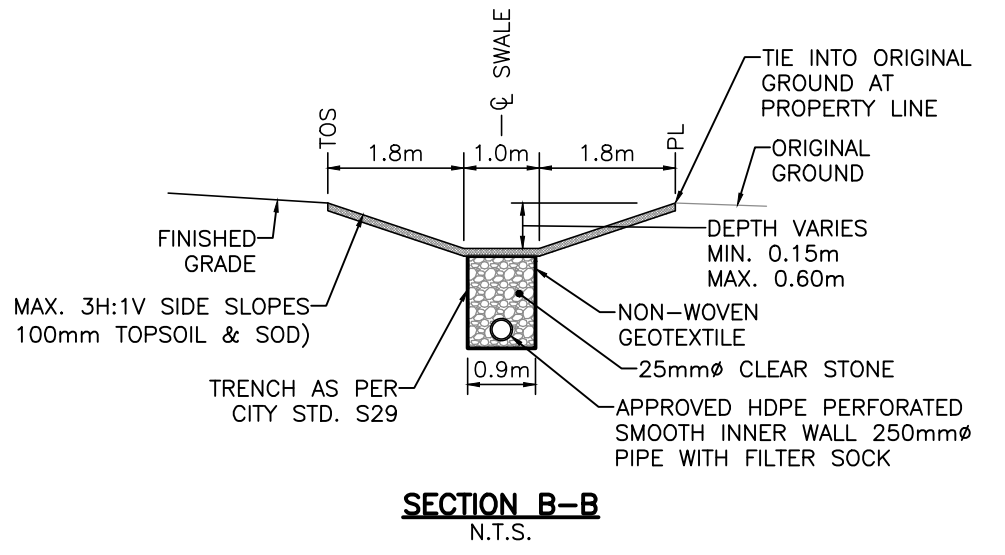
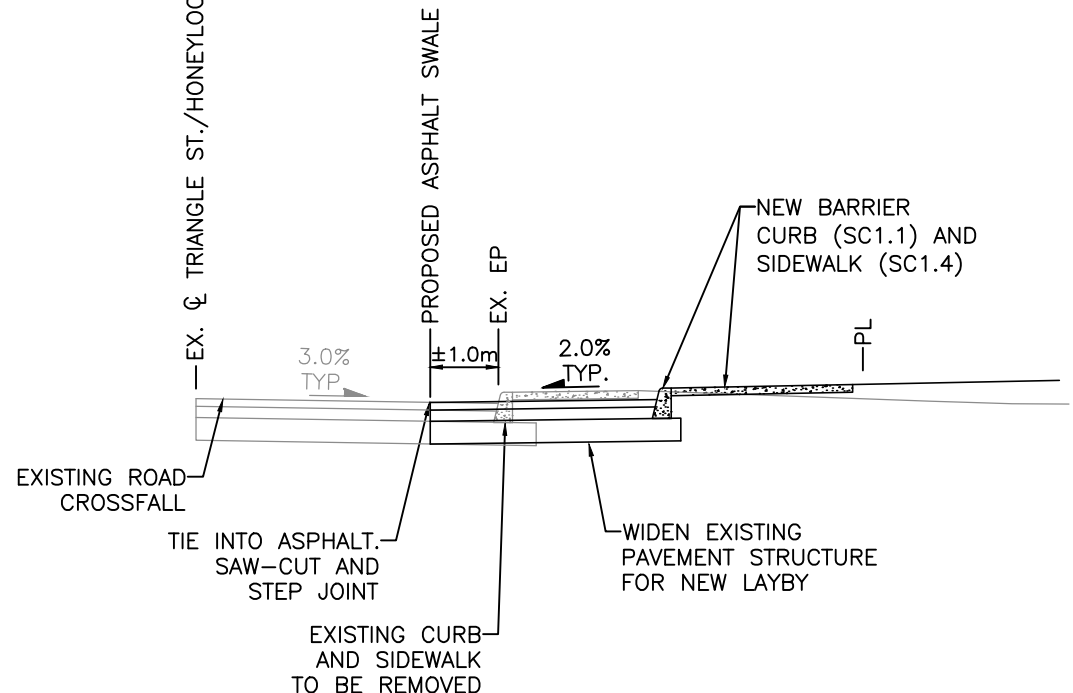
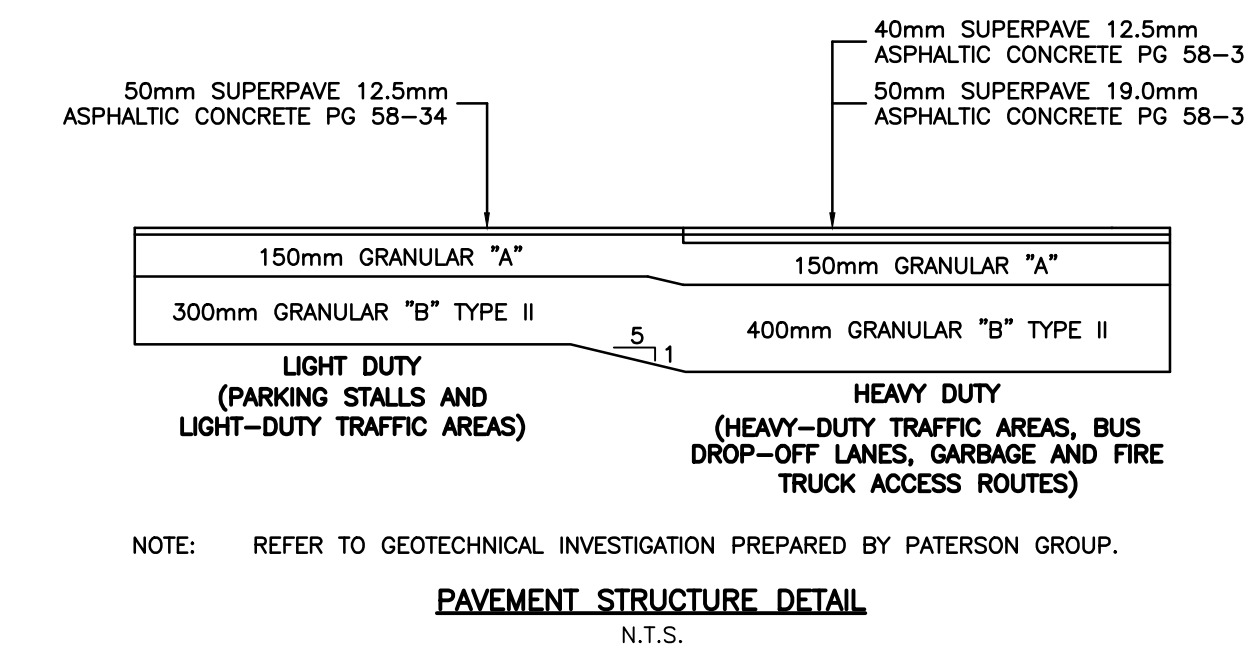
620 TRIANGLE STREET, STITTSVILLE

SERVICING PLAN

PROJECT No. 24093
SURVEY STANTEC
DATED SEPT. 2025
DWG. No. 24093-S1



- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING HYDRANT
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM MANHOLE
 - EXISTING CATCH BASIN
 - EXISTING LIGHT STANDARD
 - PROPOSED HYDRANT
 - H.P.
 - DC
 - TERRACING (3H:1V MAX.)
 - EXISTING ELEVATION
 - PROPOSED GRADE
 - DRAINAGE SLOPE & DIRECTION
 - CATCH BASIN
 - CATCH BASIN MANHOLE
 - SANITARY MANHOLE (WATERTIGHT COVER)
 - STORM MANHOLE
 - TEE LANDSCAPE CATCH BASIN (CITY STD. S30)
 - ELBOW LANDSCAPE CATCH BASIN (CITY STD. S31)
 - SWALE
 - SWALE WITH 250mm ϕ PERFORATED SUBDRAIN
 - 100-YEAR PONDING LIMIT
 - LIGHT STANDARD (REFER TO SITE PLAN)
 - FENCE (REFER TO SITE PLAN A100 & L.1)
 - BUILDING ENTRANCE
 - BOREHOLE (REFER TO GEOTECHNICAL REPORT)
 - TEST PIT (REFER TO GEOTECHNICAL REPORT)
 - MAJOR OVERLAND FLOW ROUTE
 - SNOW STORAGE AREA (REFER TO SITE PLAN)
 - PAINT LINES (REFER TO SITE PLAN)
 - ROOF SCUPPER
 - HEAVY-DUTY PAVEMENT STRUCTURE



FOUNDATION WALL GRADING DETAIL
N.T.S.

NOT FOR CONSTRUCTION

NOTES

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SCALE			
HORIZONTAL 1:400			
NO.	REVISION DESCRIPTION	DATE	BY
2	REVISED PER CITY COMMENTS	23/09/25	BLM
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DESIGN	BLM
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DRAWN	BLM
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APPROVED	BLM

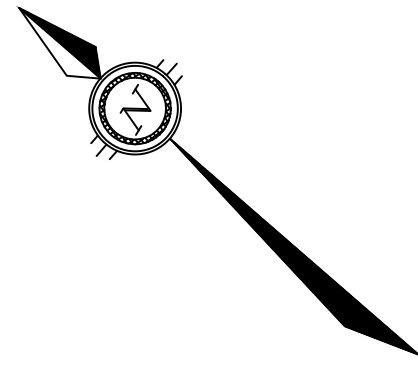
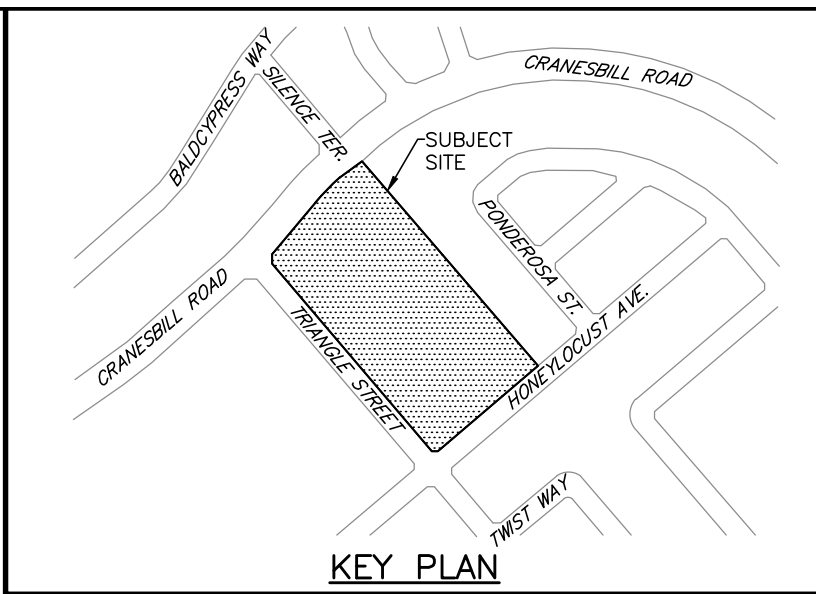
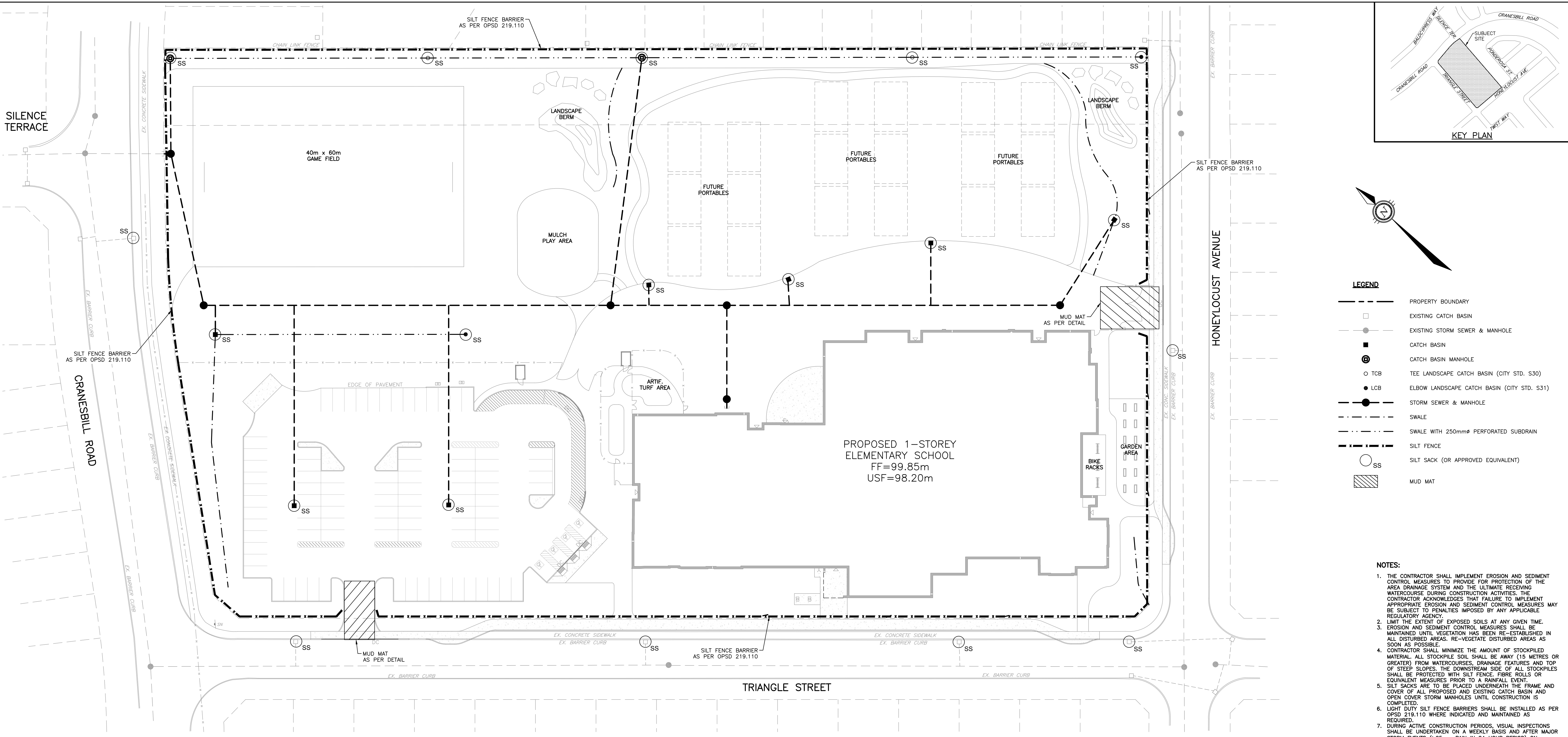
OTTAWA CATHOLIC SCHOOL BOARD

**FERNBORTH NORTH
ELEMENTARY SCHOOL**

620 TRIANGLE STREET, STITTSVILLE

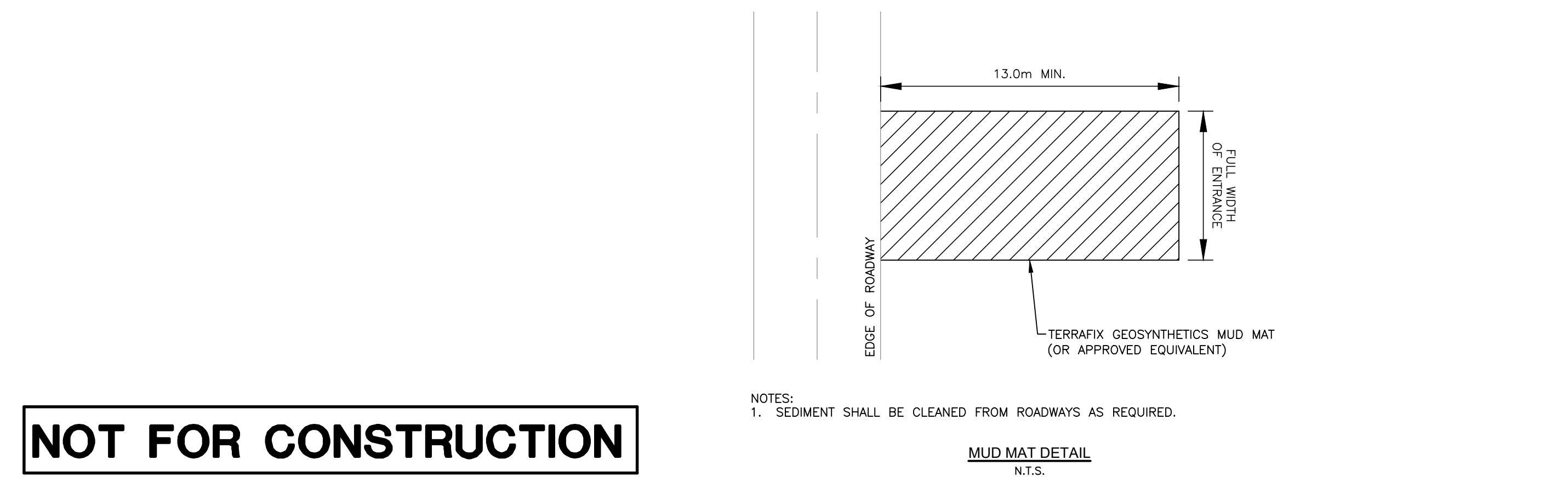
PROJECT No.	24093
SURVEY	STANTEC
DATED	SEPT. 2025
DWG. No.	24093-GR1

GRADING PLAN



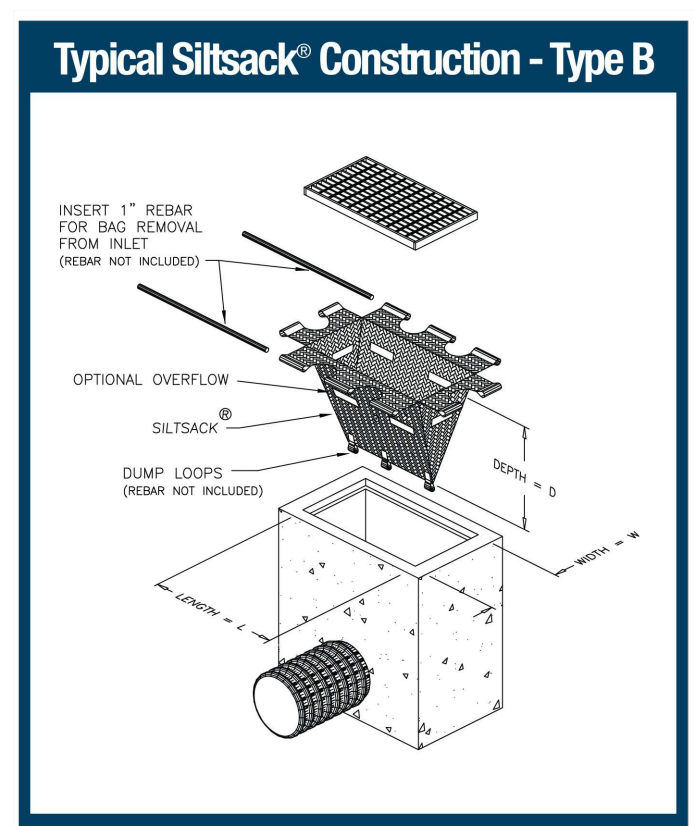
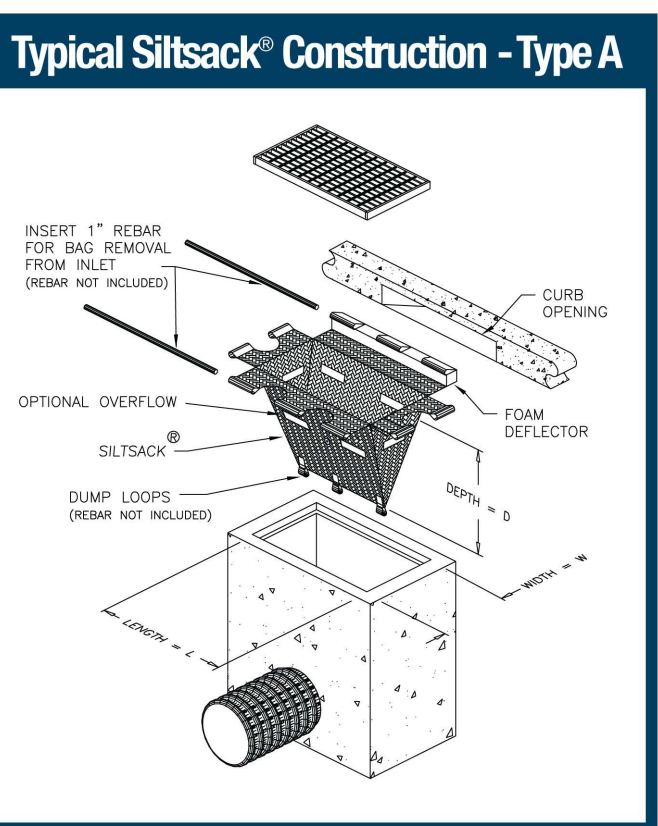
- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING CATCH BASIN
 - EXISTING STORM SEWER & MANHOLE
 - CATCH BASIN
 - CATCH BASIN MANHOLE
 - TCB TEE LANDSCAPE CATCH BASIN (CITY STD. S30)
 - LCB ELBOW LANDSCAPE CATCH BASIN (CITY STD. S31)
 - STORM SEWER & MANHOLE
 - SWALE
 - SWALE WITH 250mmØ PERFORATED SUBDRAIN
 - SILT FENCE
 - SILT SACK (OR APPROVED EQUIVALENT)
 - MUD MAT

- NOTES:**
- THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE ULTIMATE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION HAS BEEN RE-ESTABLISHED IN ALL DISTURBED AREAS. RE-VEGETATE DISTURBED AREAS AS SOON AS POSSIBLE.
 - CONTRACTOR SHALL MINIMIZE THE AMOUNT OF STOCKPILED MATERIAL. ALL STOCKPILE SOIL SHALL BE AWAY (15 METRES OR GREATER) FROM WATERCOURSES, DRAINAGE FEATURES AND TOP OF STEEP SLOPES. THE DOWNSTREAM SIDE OF ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCE, FIBRE ROLLS OR EQUIVALENT MEASURES PRIOR TO A RAINFALL EVENT.
 - SILT SACKS ARE TO BE PLACED UNDERNEATH THE FRAME AND COVER OF ALL PROPOSED AND EXISTING CATCH BASIN AND OPEN COVER STORM MANHOLES UNTIL CONSTRUCTION IS COMPLETED.
 - LIGHT DUTY SILT FENCE BARRIERS SHALL BE INSTALLED AS PER OPSD 219.110 WHERE INDICATED AND MAINTAINED AS REQUIRED.
 - DURING ACTIVE CONSTRUCTION PERIODS, VISUAL INSPECTIONS SHALL BE UNDERTAKEN ON A WEEKLY BASIS AND AFTER MAJOR STORM EVENTS (>25mm RAIN IN 24 HOUR PERIOD) ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY.
 - EROSION AND SEDIMENT CONTROL BARRIERS SHALL ALSO BE ASSESSED (AND REPAIRED AS REQUIRED) FOLLOWING SIGNIFICANT SNOWMELT EVENTS.
 - VISUAL INSPECTIONS SHALL ALSO BE UNDERTAKEN IN ANTICIPATION OF LARGE STORM EVENTS (OR A SERIES OF RAINFALL AND/OR SNOWMELT DAYS) THAT COULD POTENTIALLY YIELD SIGNIFICANT RUNOFF VOLUMES.
 - CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION OPERATIONS.
 - IN SOME CASES, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS SHALL BE REINSTATED IMMEDIATELY AFTER CONSTRUCTION OPERATIONS ARE COMPLETED.
 - SEDIMENT CONTROL DEVICES SHALL BE CLEANED OF ACCUMULATED SEDIMENTATION AS REQUIRED AND REPLACED AS NECESSARY.
 - DURING THE COURSE OF CONSTRUCTION, IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES, AS REQUIRED, TO THE SATISFACTION OF THE ENGINEER.
 - CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS ARE TO COMPLY WITH OPSD 805.
 - MUD MATS SHALL BE INSTALLED AT ALL CONSTRUCTION ENTRANCES.
 - INSPECTION AND MAINTENANCE OF TEMPORARY ESC MEASURES SHALL CONTINUE UNTIL THEY ARE NO LONGER REQUIRED.
 - THE CONTRACTOR SHALL ENSURE THAT RECORDS OF INSPECTION ARE TAKEN, INCLUDING INSPECTOR'S NAME, DATE OF INSPECTION, VISUAL OBSERVATIONS, AND ANY NECESSARY REMEDIAL MEASURES TAKEN TO MAINTAIN INTERIM ESC MEASURES.



- NOTES:**
- SEDIMENT SHALL BE CLEANED FROM ROADWAYS AS REQUIRED.

MUD MAT DETAIL
N.T.S.



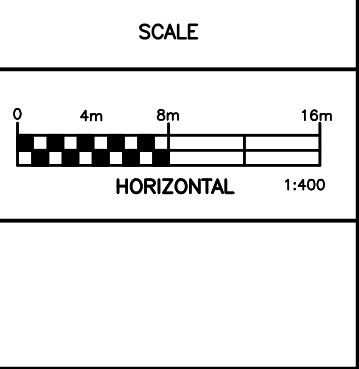
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NOTES

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NO.	REVISION DESCRIPTION	DATE	BY
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DESIGN	BLM
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CHECKED	BLM
APPROVED	BLM

OTTAWA CATHOLIC SCHOOL BOARD

FERNBANK NORTH
ELEMENTARY SCHOOL
620 TRIANGLE STREET, STITTSVILLE

EROSION AND SEDIMENT
CONTROL PLAN

PROJECT No.	24093
SURVEY	STANTEC
DATED	SEPT: 2025
DWG. No.	24093-ESC1

GENERAL NOTES:

1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), AS AMENDED BY THE CITY OF OTTAWA.
2. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
3. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
4. DESIGN ELEVATIONS GIVEN ARE TO BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY ROBINSON LAND DEVELOPMENT.
5. ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
6. RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
7. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DEFINED IN THE ACT.
8. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
9. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
12. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR, REVIEW WITH THE CITY OF OTTAWA PRIOR TO AND TREE CUTTING.
13. REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP, DATED SEPTEMBER 9, 2024.
14. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE FOR DETERIORATION, SUPPORT AND PROTECTION OF EXCAVATIONS AND TRENCHING AS WELL AS RELEASE OF ANY PUMPED GROUNDWATER IN A CONTROLLED AND APPROVED MANNER.
15. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
16. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
17. JAIL SEALS SHALL BE INSTALLED WITHIN SOWER TRENCHES IN ACCORDANCE WITH CITY STANDARD S8.
18. MOVEMENT OF MATERIAL ON AND/OR OFF SITE SHALL BE IN ACCORDANCE WITH ONTARIO EXCESS SOIL REGULATION 0.REG. 406/19.
19. A POST-CONSTRUCTION TOPOGRAPHIC SURVEY SHALL BE COMPLETED BY AN ONTARIO LAND SURVEYOR. THE SURVEY SHALL IDENTIFY AS-BUILT ELEVATIONS OF ALL UNDERGROUND AND ABOVE GROUND INFRASTRUCTURE.
20. THE CONTRACTOR SHALL COMPLETE A CCTV INSPECTION OF ALL NEW SANITARY AND STORM SEWERS PRIOR TO PLACEMENT OF TOP LIFT ASPHALT. A COPY OF THE VIDEO INSPECTION SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.
21. THE CONTRACTOR SHALL COMPLETE CCTV INSPECTION OF EXISTING MUNICIPAL SEWERS IMMEDIATELY UPSTREAM AND DOWNSTREAM OF ANY PROPOSED CONNECTIONS, INCLUDING SEWER STUBS. THE CCTV INSPECTION IS REQUIRED PRE AND POST CONSTRUCTION.

STORM SEWERS:

1. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1 (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST AMENDMENT).
2. ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S6 AND S7 CLASS 'B' UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
4. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24.1.
5. CATCH BASIN MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S28.1.
6. STORM SEWER MANHOLES SERVING SEWERS LESS THAN 900mm SHALL BE CONSTRUCTED WITH A 300mm SUMP FOR STORM SEWERS AND OVER LAY BEDDING IN ACCORDANCE WITH CITY OF OTTAWA STD. S24.1.
7. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING. A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
8. ALL STORM MANHOLES SHALL BE 1200mm DIAMETER AS PER OPSD 701.010 UNLESS OTHERWISE NOTED.
9. ALL CATCH BASINS SHALL BE 600mm X 600mm AS PER OPSD 705.010 UNLESS OTHERWISE NOTED.

SANITARY SEWERS:

1. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.
3. ALL SANITARY SERVICES ARE TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
4. SANITARY MANHOLE FRAME AND COVERS SHALL BE WATER TIGHT AS PER CITY OF OTTAWA STD. S24.
5. SANITARY SEWER MANHOLES SHALL BE BENCHES AS PER OPSD 701.021.
6. SANITARY PRE-CAST MANHOLE SHALL BE CONSTRUCTED WITH A HIGHER PERCENTAGE OF SILICA FUME IN THE CONCRETE TO MAKE IT MORE DENSE AND LESS SUSCEPTIBLE TO CORROSION OR PINHOLE LEAKS.
7. FOR SANITARY MANHOLES, DEPENDING ON THE ELEVATION OF THE GROUNDWATER TABLE, AND BASED ON THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL CONSULTANT, CRETEK SEALS, OR A SIMILAR PRODUCT, SHALL BE INSTALLED IN THE PRE-CAST MANHOLE SECTION TO JUST BELOW THE MANHOLE FRAME TO PREVENT INFILTRATION.
8. 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 ENGINEER FOR REVIEW.

WATER SUPPLY:

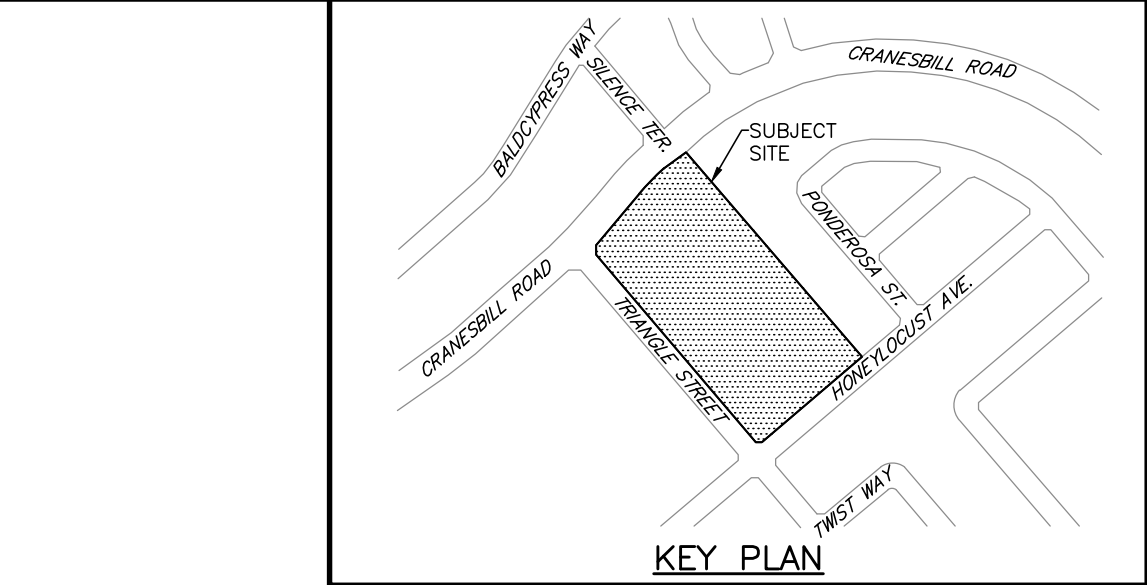
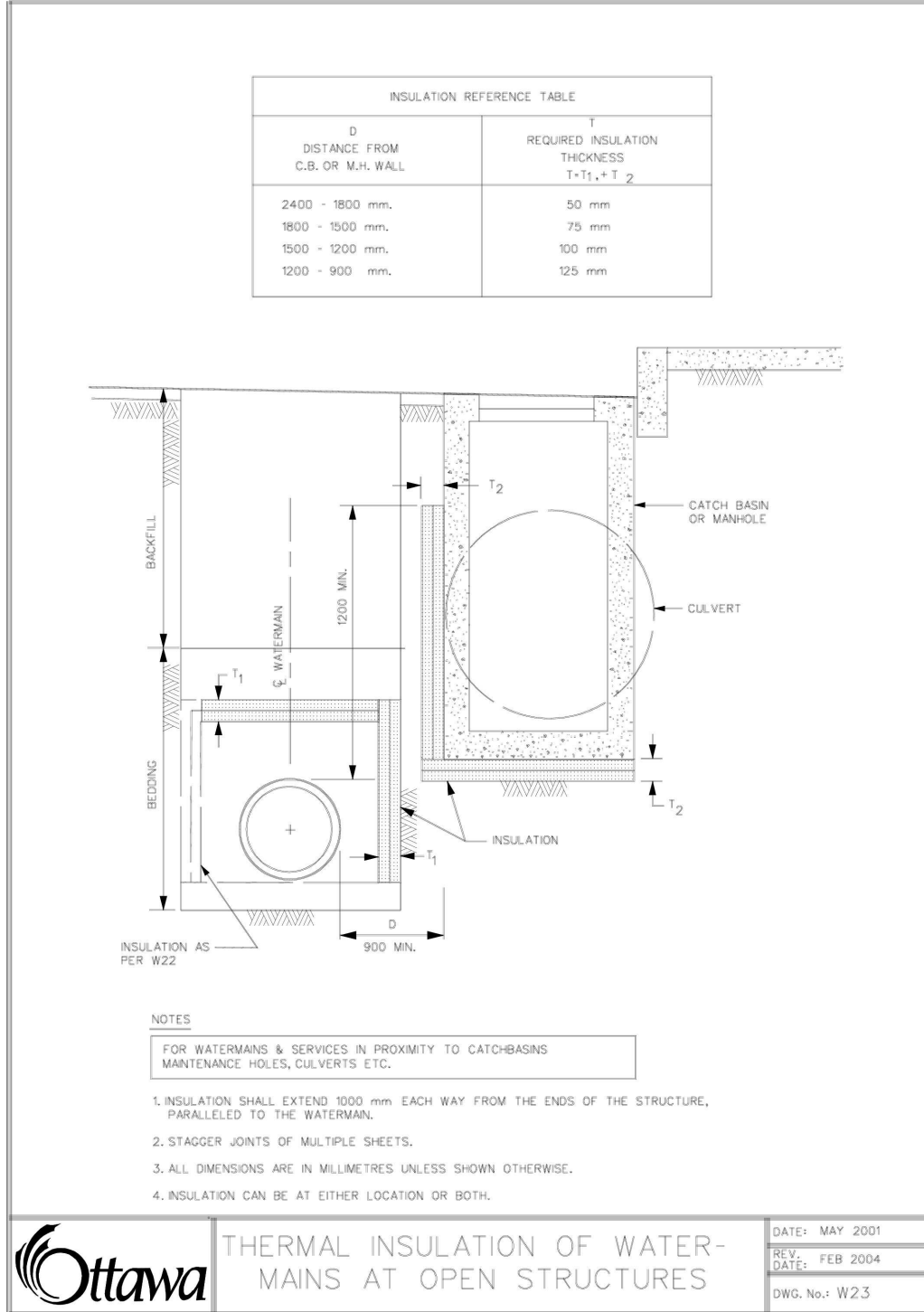
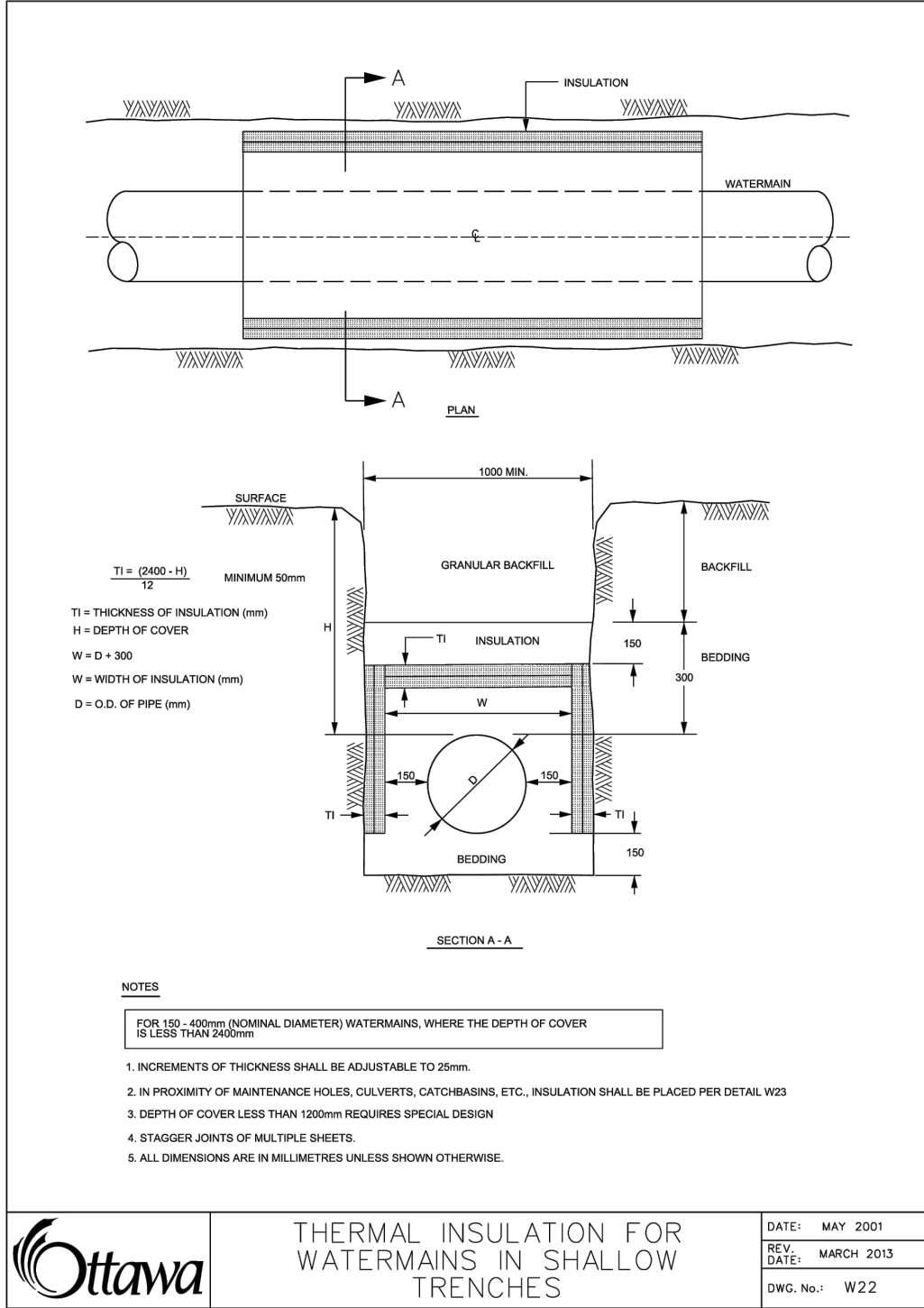
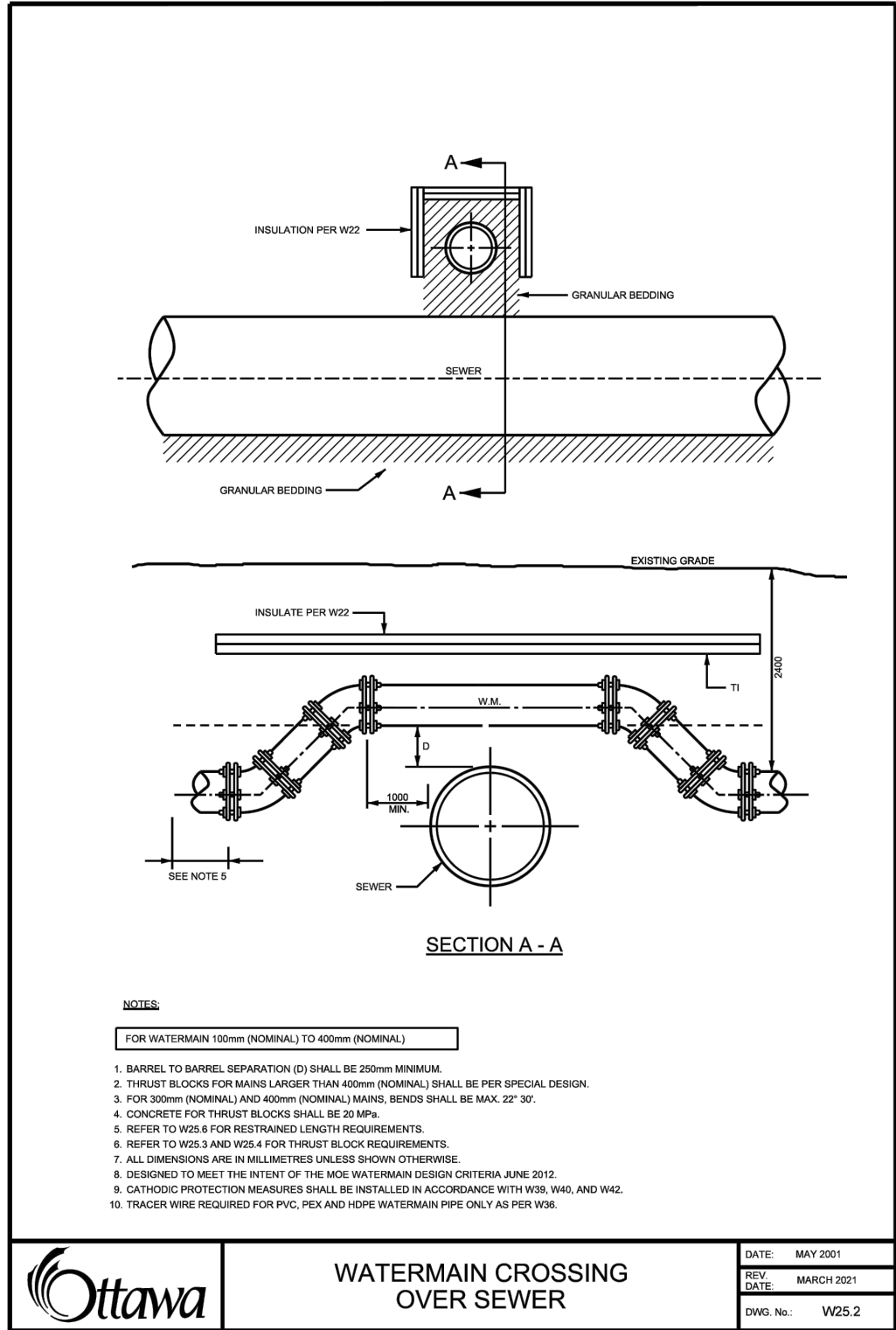
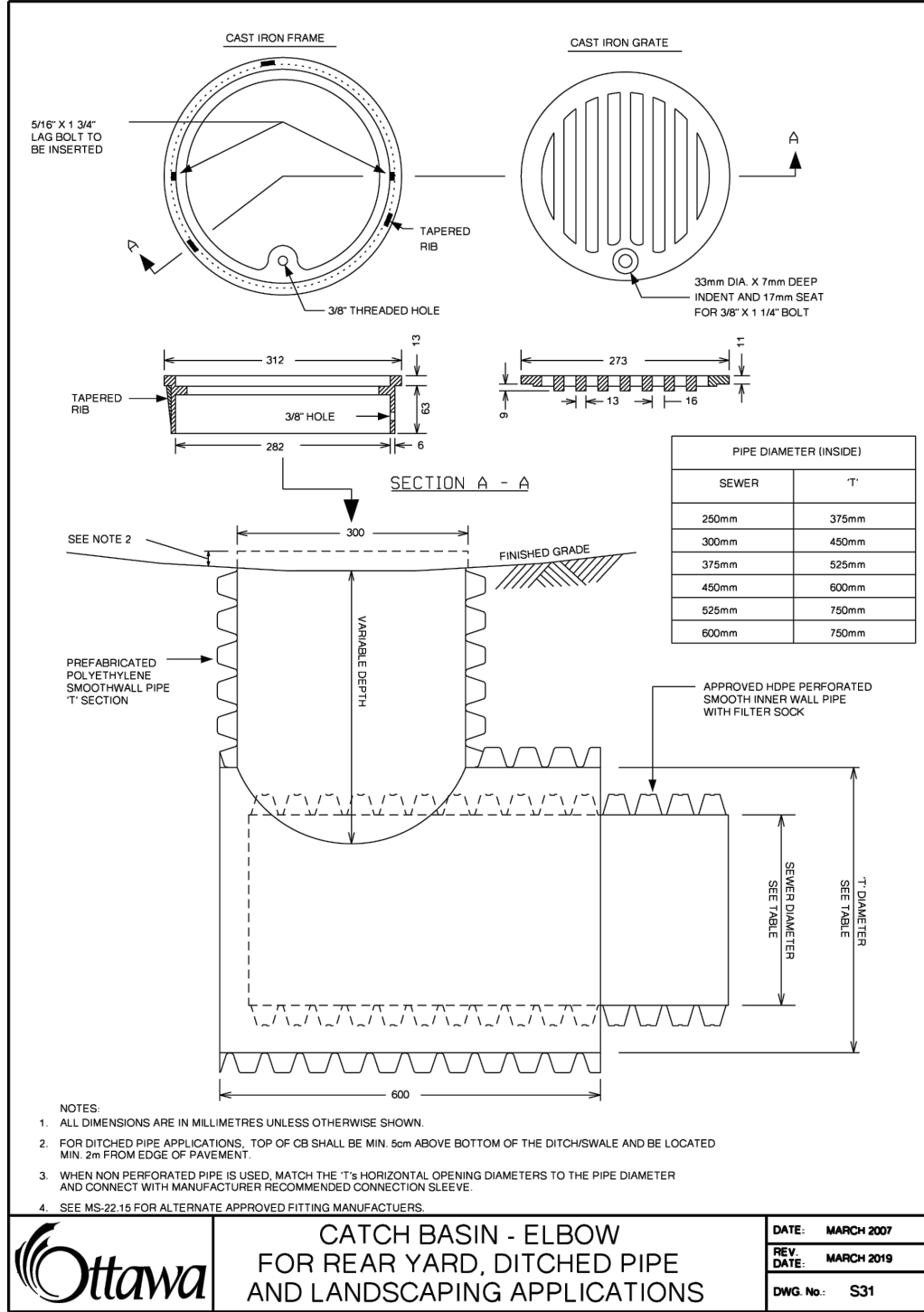
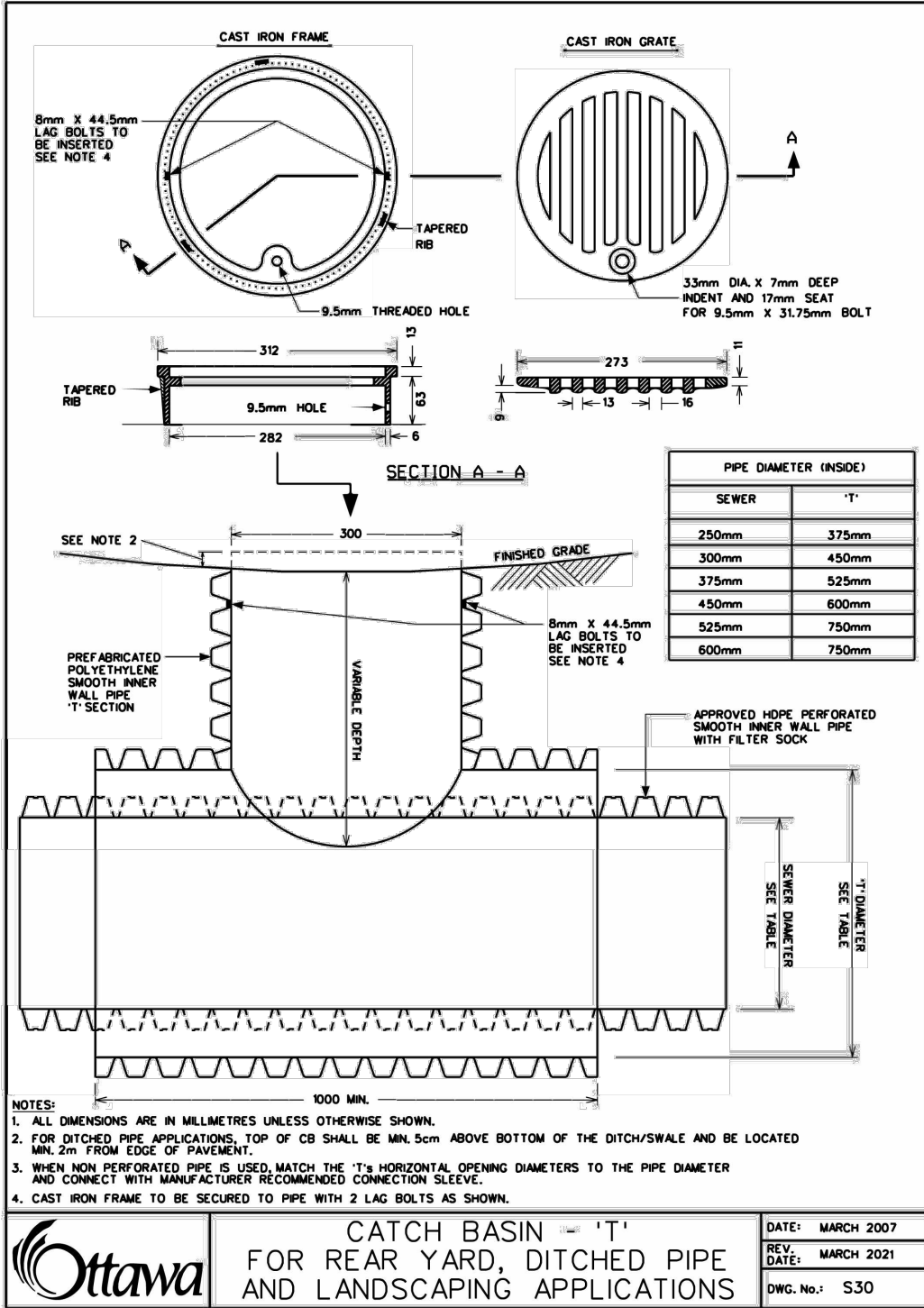
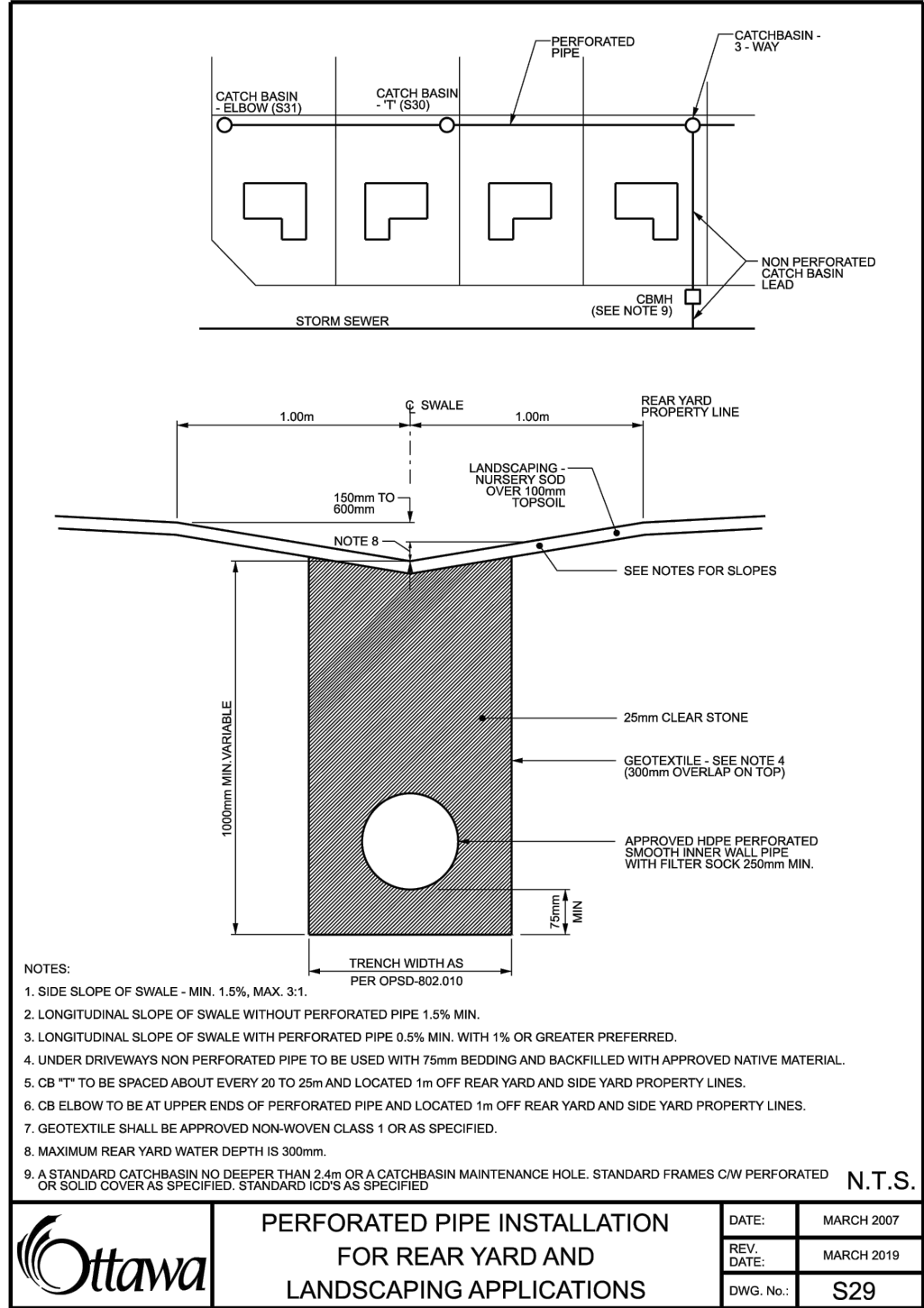
1. ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL.
2. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
3. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
4. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
5. CONTRACTOR TO SUPPLY HYDRANT EXTENSION TO ADJUST THE LENGTH OF HYDRANT BARREL IF REQUIRED.
6. FIRE HYDRANTS SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W19, AND LOCATED AS PER CITY STD. W18.
7. VALVE IN BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W24.
8. WATERMAIN IN FILL AREAS TO BE INSTALLED WITH RESTRAINED JOINTS AS PER CITY OF OTTAWA STD. W25.5 AND W25.6.
9. THRUST BLOCKING OF WATERMAIN TO BE INSTALLED AS PER CITY OF OTTAWA STD. W25.3 AND W25.4.
10. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
11. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAIN COVER IS LESS THAN 2.4m.
12. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY STD. W25.2. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIJANT AND AS FAR AS POSSIBLE FROM THE SEWER AS PER CITY STD. W25.
13. CONNECTION TO EXISTING WATERMAIN TO BE PERFORMED BY CITY FORCES. CONTRACTOR TO PROVIDE LABOUR, EQUIPMENT AND MATERIAL REQUIRED FOR EXCAVATION, BEDDING AND REINSTATEMENT.
14. SWABBING, DISINFECTION, AND HYDROSTATIC TESTING TO BE CONDUCTED AS PER CITY OF OTTAWA STANDARDS IN THE PRESENCE OF A CITY INSPECTOR AND/OR CONSULTANT.

ROADWORK SPECIFICATIONS:

1. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRIER CURB). PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEWAYS.
2. ALL BARRIER CURB TO BE 150mm ABOVE FINISHED ASPHALT GRADE UNLESS OTHERWISE NOTED.
3. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.4.
4. TWISs SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STD. SC2.3.
5. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10.
6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
7. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
8. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.
9. SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300mm LIFTS.
10. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW-CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW ASPHALT.
11. PAVEMENT DESIGN AS PER GEOTECHNICAL RECOMMENDATIONS.

CONCRETE SIDEWALKS ADJACENT TO BUILDINGS:

1. IT IS RECOMMENDED THAT THE UPPER 600mm OF BACKFILL PLACED BELOW THE CONCRETE SIDEWALKS ADJACENT TO THE BUILDING FOOTPRINTS TO CONSIST OF NON-FROST SUSCEPTIBLE MATERIAL SUCH AS OPSS GRANULAR A OR GRANULAR B TYPE II.
2. THE SIDEWALKS SHOULD BE UNDERLAIN BY A LAYER OF RIGID INSULATION AT ENTRANCEWAYS TO MINIMIZE THE POTENTIAL FOR THE SIDEWALKS TO RAISE IN RESPONSE TO FROST MIGRATION WITHIN THE SUBGRADE SOILS.
3. THE GRANULAR MATERIAL SHOULD BE PLACED IN MAXIMUM 300mm LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIALS SPMD USING SUITABLE COMPACTION EQUIPMENT.
4. THE SUBGRADE MATERIAL SHOULD BE SHAPED TO PROMOTE POSITIVE DRAINAGE TOWARDS THE BUILDING'S PERIMETER DRAINAGE SYSTEM.
5. CONSIDERATION SHOULD BE GIVEN TO PLACING A LAYER OF RIGID INSULATION BELOW THE GRANULAR FILL LAYER, HOWEVER, SHOULD BE DETAILED BY PATERSON ONCE DESIGN DRAWINGS ARE BEING COMPLETE BY OTHERS.



NOTES

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

PROPERTY BOUNDARIES HAVE BEEN DERIVED FROM THE TOPOGRAPHIC PLAN OF SURVEY OF BLOCK 1166 REGISTERED PLAN 4M-1628 AND BLOCK 204 REGISTERED PLAN 4M-1608 CITY OF OTTAWA, PREPARED BY STANTEC GEOMATICS LTD., DATED OCTOBER 8, 2024. BEARINGS ARE DERIVED FROM FROM CAN-NET VRS NETWORK GPS OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 19773035 AND 19680191, MTM ZONE 9, NAD83 (ORIGINAL). ELEVATIONS ARE GEODETIC (CGVD-1928:1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT, ELEVATION 95.230.

NO.	REVISION DESCRIPTION	DATE	BY
2	REVISED PER CITY COMMENTS	23/09/25	BLM
1	ISSUED FOR REVIEW	03/04/25	BLM

SCALE



Robinson
Land Development

350 Palladium Drive
Ottawa, ON K2V 1A8
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DESIGN	BLM
CHECKED	BLM
DRAWN	BLM
CHECKED	BLM
APPROVED	BLM

OTTAWA CATHOLIC SCHOOL BOARD

FERNBANK NORTH
ELEMENTARY SCHOOL
620 TRIANGLE STREET, STITTSVILLE

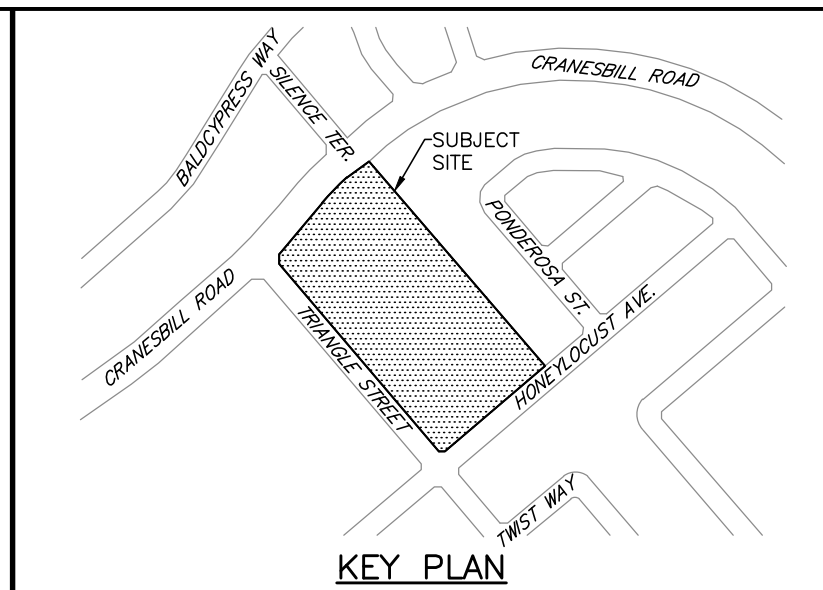
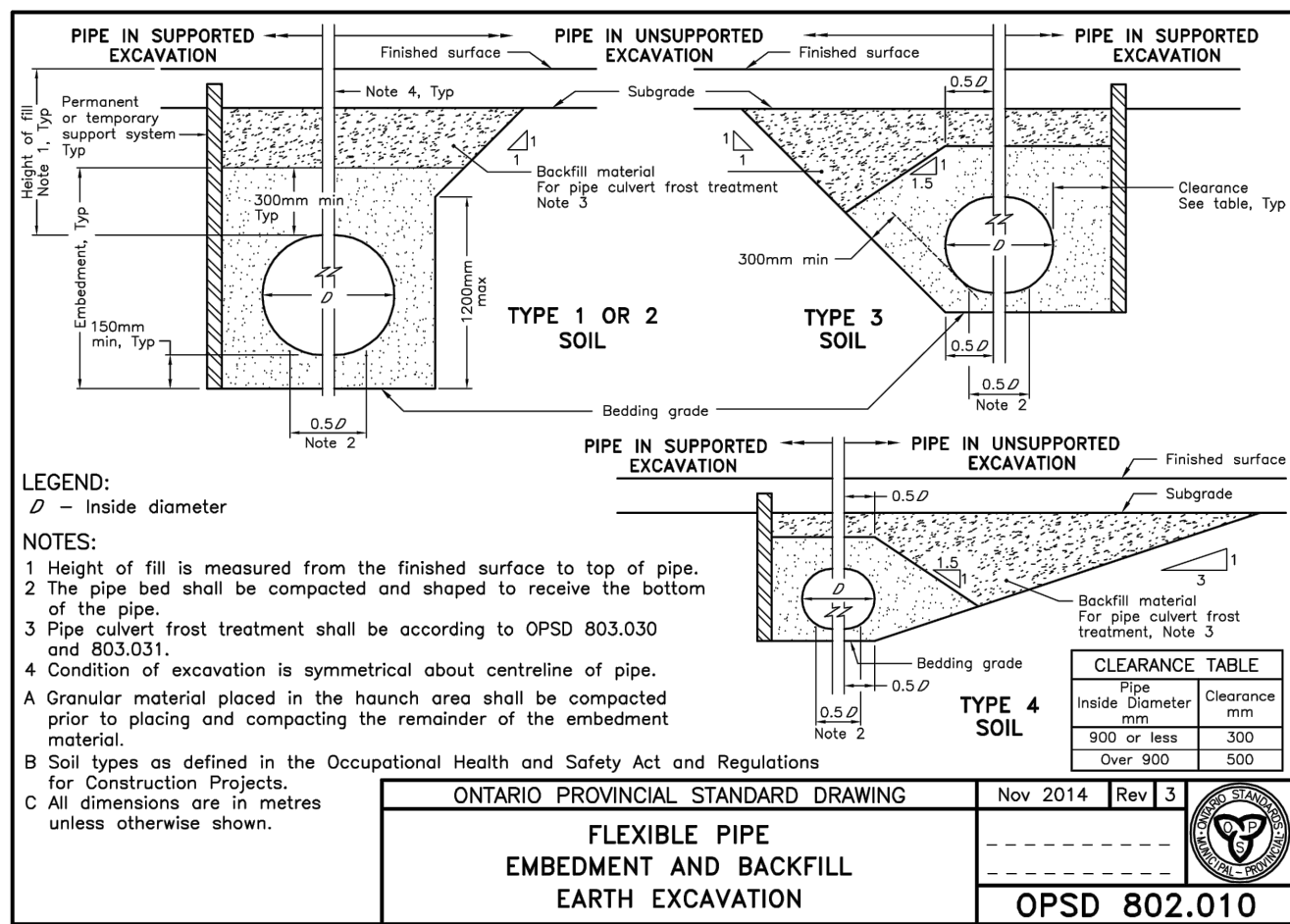
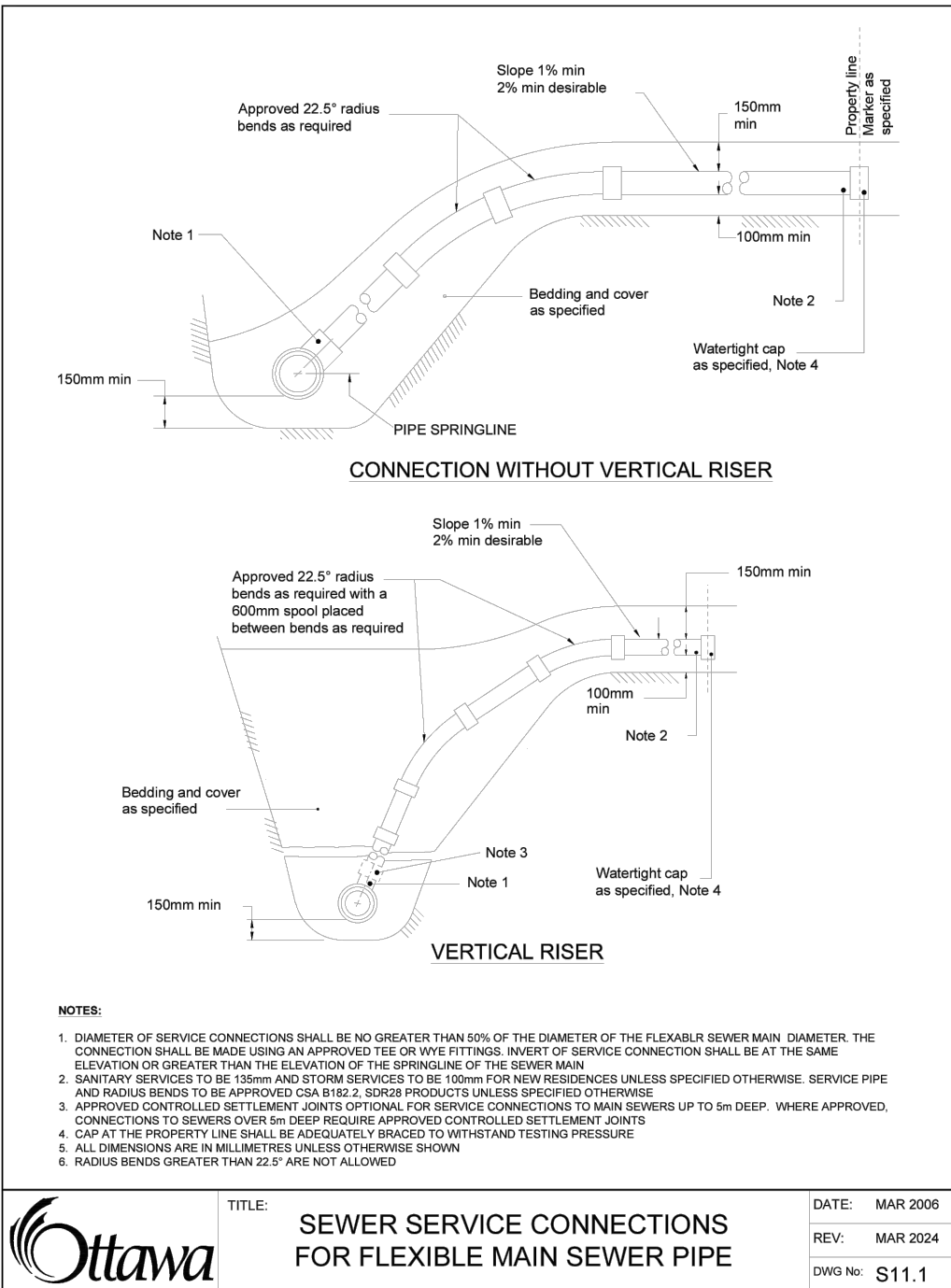
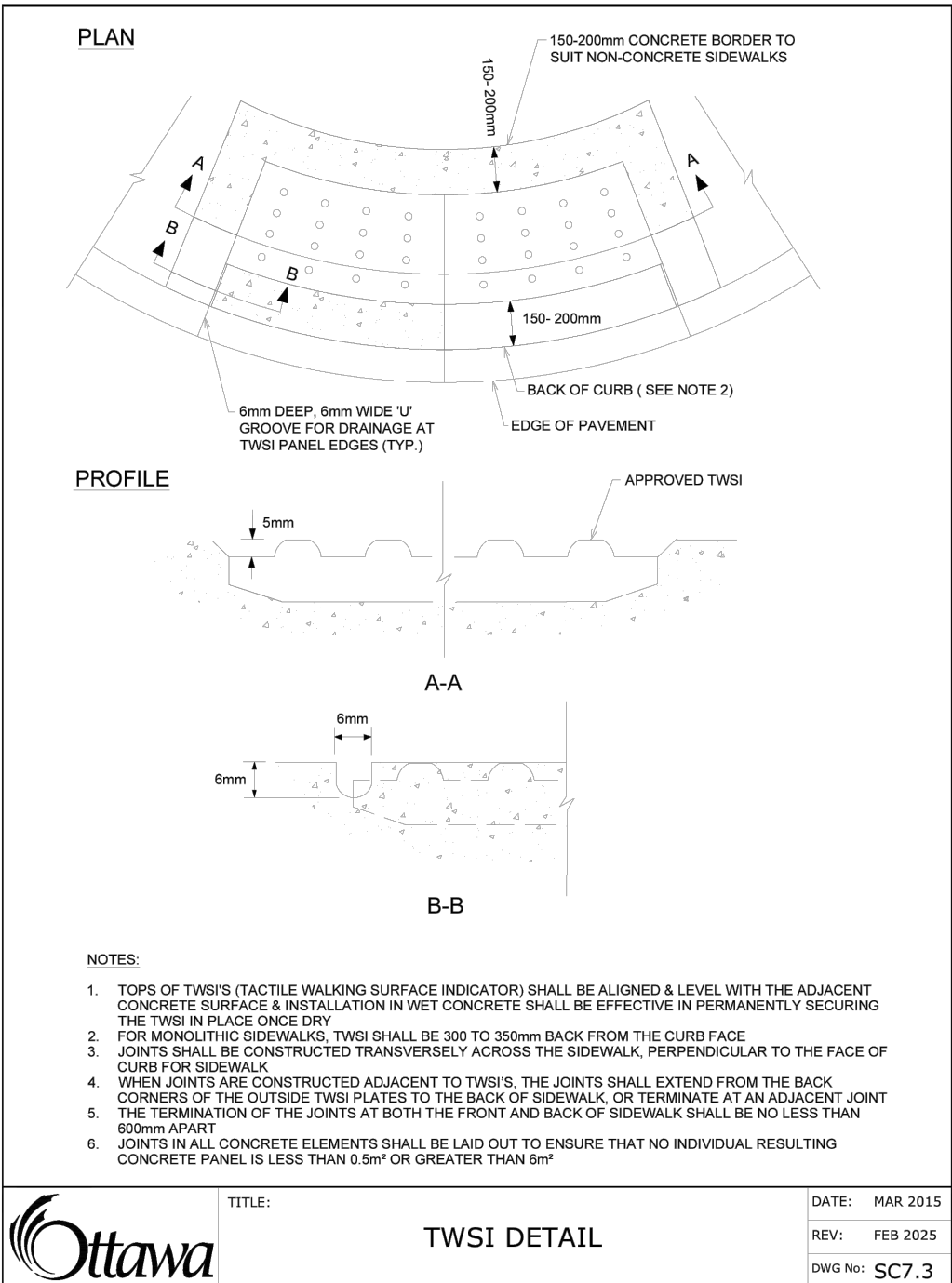
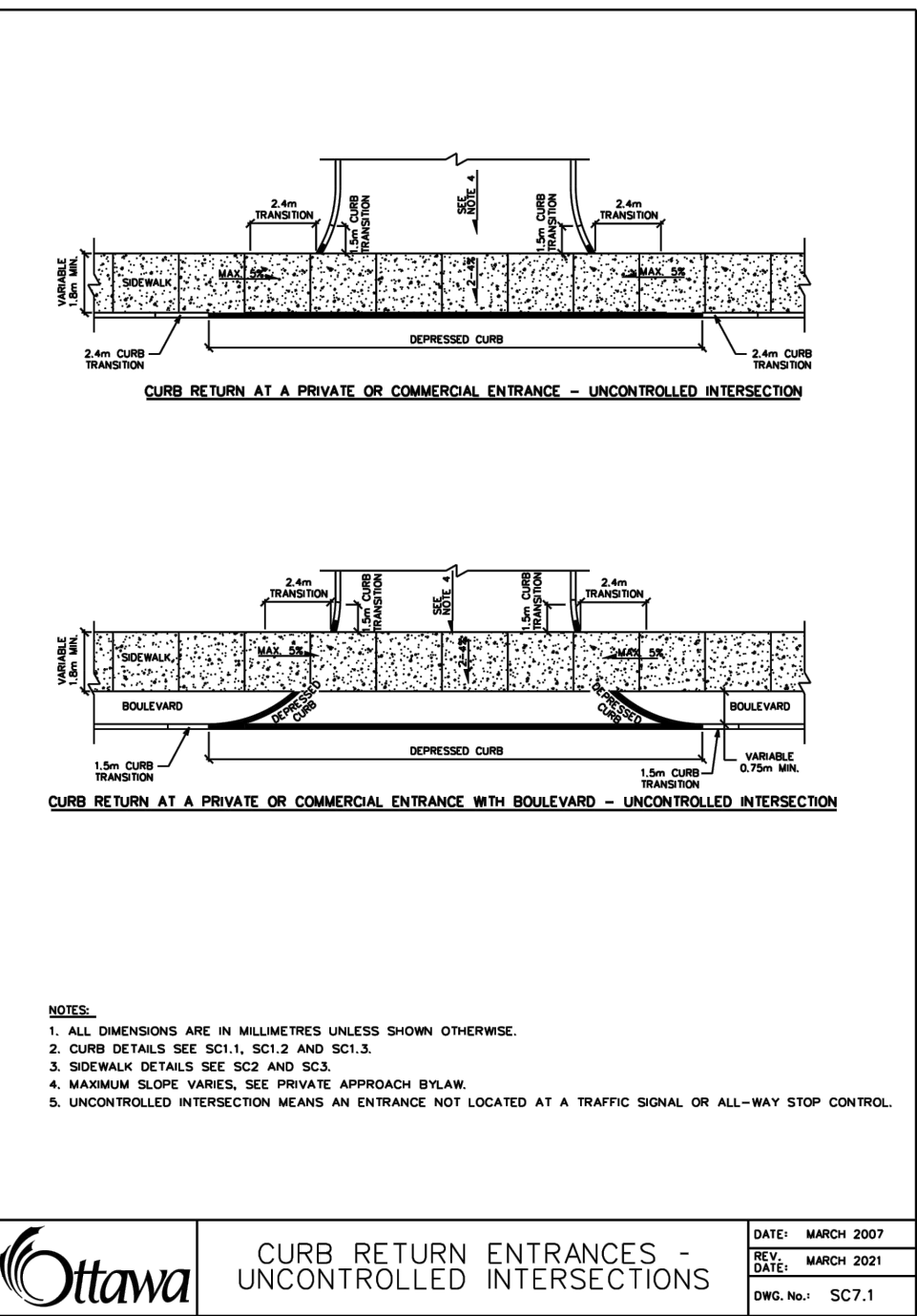
NOTES & DETAILS

PROJECT No. 24093

SURVEY STANTEC

DATED SEPT: 2025

DWG No. 24093-N1



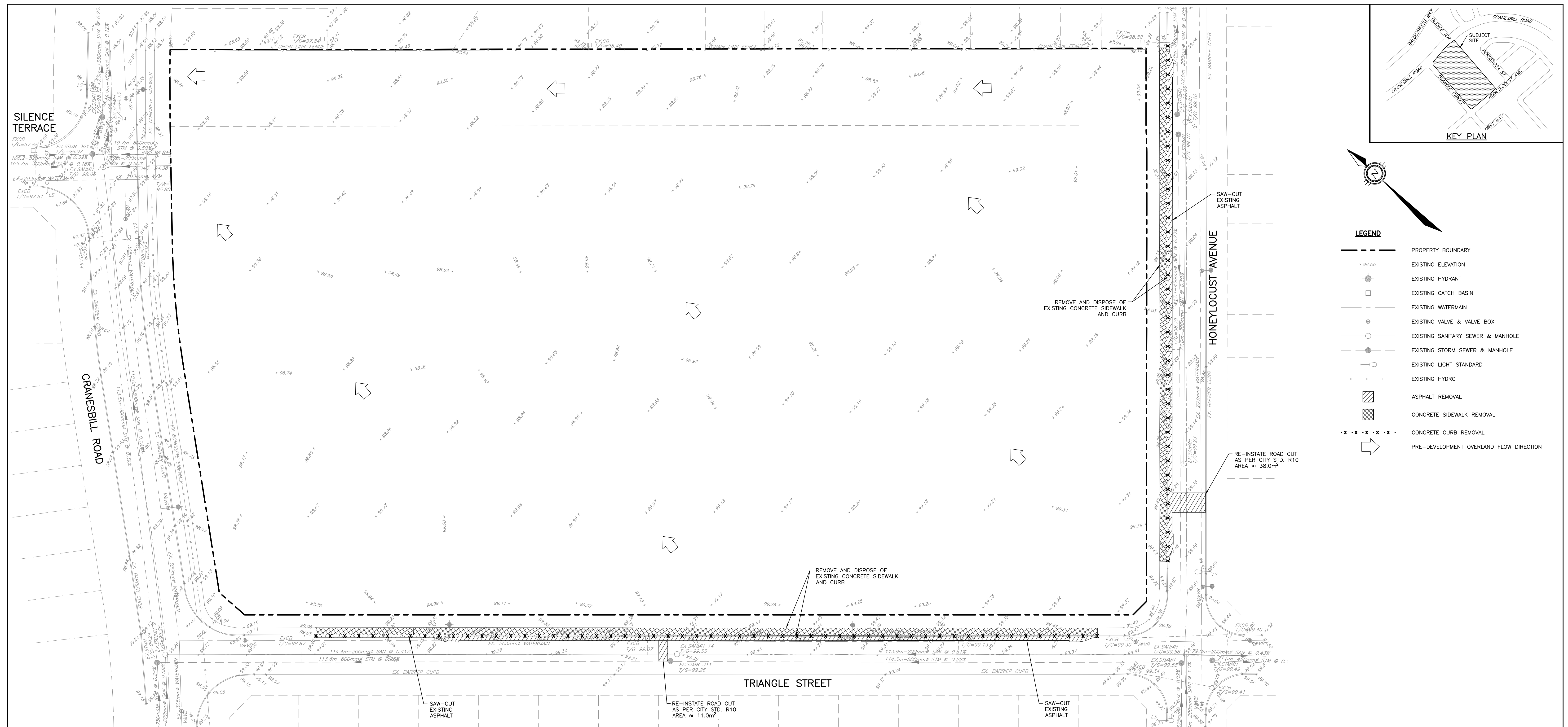
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2	REVISED PER CITY COMMENTS	23/09/25	BLM		
1	ISSUED FOR REVIEW	03/04/25	BLM		
NO.	REVISION DESCRIPTION	DATE	BY		



DESIGN	BLM
CHECKED	BLM
DRAWN	BLM
CHECKED	BLM
APPROVED	BLM

PROJECT No. 24093
SURVEY STANTEC
DATED SEPT. 2025
DWG. No: 24093-N2

NOT FOR CONSTRUCTION

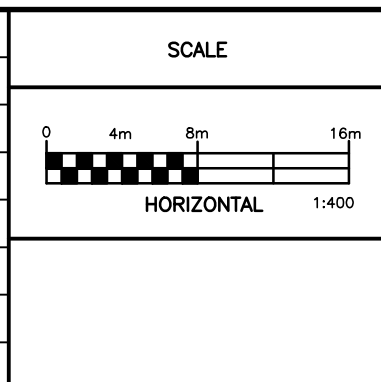


NOT FOR CONSTRUCTION

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2	REVISED PER CITY COMMENTS	23/09/25	BLM
1	ISSUED FOR REVIEW	03/04/25	BLM
NO.	REVISION DESCRIPTION	DATE	BY



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APPROVED	BLM

OTTAWA CATHOLIC SCHOOL BOARD

FERNBANK NORTH ELEMENTARY SCHOOL 620 TRIANGLE STREET, STITTSVILLE
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EXISTING CONDITIONS AND REMOVALS PLAN

PROJECT No.	24093
SURVEY	STANTEC
DATED	SEPT. 2025
DWG. No:	24093-R1

