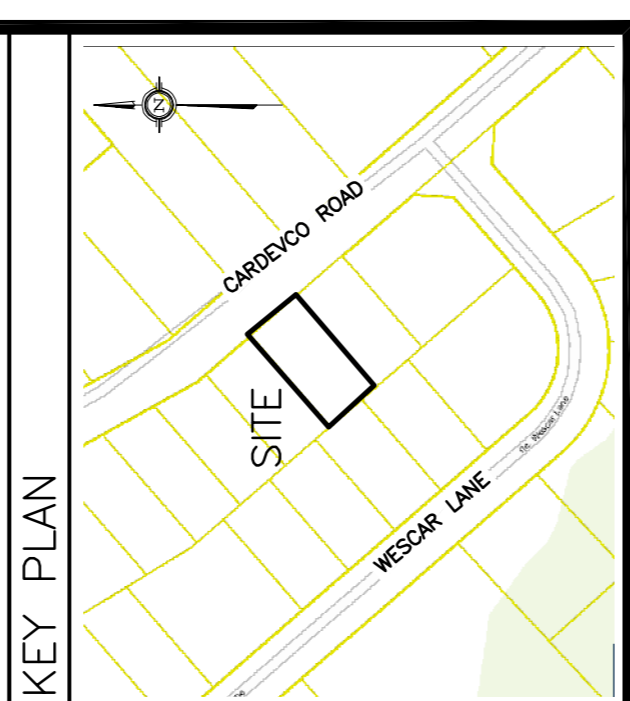


LEGEND	
FFL	FINISHED FLOOR ELEVATION
TOP	TOP OF FOUNDATION
USF	UNDERSIDE OF FOOTING
- - - - -	PROPERTY LINE
CB	CATCH-BASIN
MH	STORM MANHOLE
SI	STORM SEWER
INV	INVERT OF PIPE
199.99	EXISTING GRADE ELEVATION
199.99	PROPOSED GRADE ELEVATION
ZZ	EXISTING SLOPE OF GRADE
ZZ	PROPOSED SLOPE OF GRADE
⇨	EMERGENCY OVERLAND FLOW
T.O.S.	TOP OF SLOPE
B.O.S.	BOTTOM OF SLOPE
- - - - -	CENTERLINE OF SWALE
.....	SILT FENCE BARRIER
○	ROOF DRAIN
▨	LIGHT-DUTY PAVEMENT
▩	HEAVY-DUTY PAVEMENT
.....	LANDSCAPE



No.	DATE	REVISION
7	MAR 25-25	RE-ISSUED FOR APPROVAL
6	FEB 10-25	RE-ISSUED FOR APPROVAL
5	OCT 11-24	RE-ISSUED FOR APPROVAL
4	JUN 9-23	RE-ISSUED FOR APPROVAL
3	NOV 24-22	ISSUED FOR COORDINATION
2	NOV 15-22	ISSUED FOR COORDINATION
1	SEP 12-22	PRELIMINARY
No.	DATE	REVISION

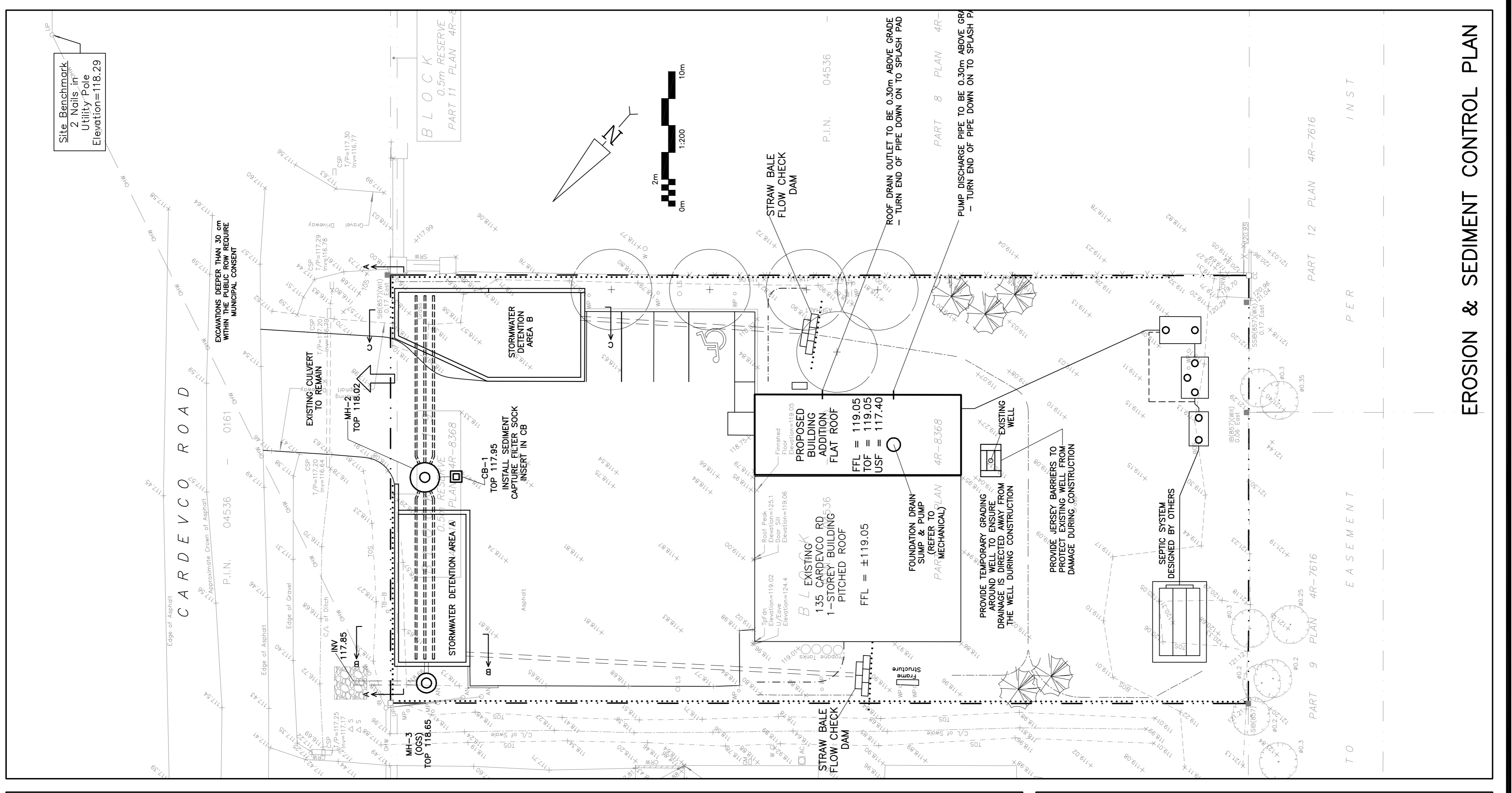
D. B. GRAY ENGINEERING INC.
 Stormwater Management Consulting & Planning Services
 700 Long Point Circle
 Ottawa, Ontario
 613-425-8044
 d.gray@dbgrayengineering.com

**PROPOSED ADDITION
 135 CARVEVCO ROAD
 OTTAWA, ONTARIO**

EROSION & SEDIMENT CONTROL PLAN & NOTES

Drawn: D.B.G. 1:200
 V. Scale: 1:200
 Date: SEP 12-22
 Job No.: 21081
 Drawing No.: **C-2**
 of **4**

NOT VALID UNLESS SIGNED & DATED



5.7 COORDINATE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUNDING INFILTRATION AND COMPACTION REPORTS TO ENGINEER.

5.8 CUT AND FILL AS NECESSARY TO ACHIEVE THE REQUIRED SUB-GRADE ELEVATION. DISPOSE OF SURPLUS AND UNSURABLE EXCAVATED MATERIAL OFF-SITE TO AN APPROVED LOCATION. STABILIZE EXPOSED SOILS WITH GEOTEXTILE AND FILL MATERIALS IN MANNER TO PREVENT SEGREGATION AND PROTECT FROM CONTAMINATION. THE GEOTECHNICAL CONSULTANT, STABILIZE GRANULAR AND FILL MATERIALS IN MANNER TO PREVENT SEGREGATION AND PROTECT FROM CONTAMINATION. UNDERGROUND LOCATIONS INCLUDING UNDER ONE CALL: 1-800-460-2255 SHALL BE CONDUCTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION.

5.9 UNDERGROUND LOCATIONS INCLUDING UNDER ONE CALL: 1-800-460-2255 SHALL BE CONDUCTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION. UNDERGROUND LOCATIONS INCLUDING UNDER ONE CALL: 1-800-460-2255 SHALL BE CONDUCTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION.

5.10 PIPES:

- HANDLE PIPE JOINT METHODS APPROVED BY MANUFACTURER.
- PIPE JOINTS SHALL BE PROTECTED BY 150mm GRANULAR MATERIAL.
- USE ONLY FITTINGS AS RECOMMENDED BY PIPE MANUFACTURER.
- DO NOT EXCEED MAXIMUM JOINT DEFLECTION RECOMMENDED BY PIPE MANUFACTURER.
- WHENEVER WORK IS SUSPENDED, BLOCK PIPES TO PREVENT CREEP DURING DOWN TIME. MAKE WATER-TIGHT CONNECTIONS TO MANHOLES.
- JOINTS SHALL BE STRUCTURALLY SOUND AND WATER-TIGHT.
- WHENEVER WORK IS SUSPENDED, BLOCK PIPES TO PREVENT CREEP DURING DOWN TIME. MAKE WATER-TIGHT CONNECTIONS TO MANHOLES.
- CONSTRUCT SEWER TRENCHES AS PER CITY DWG 58 & 57.
- ROOF STRUCTURES: INSTALL PIPE JOINTS NOT LESS THAN 1.2m FROM SIDE OF STRUCTURE.
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5.11 MAINLINE RECORDS, DRAWINGS AND RECORD ACCURATELY DEVIATIONS FROM THE ORIGINAL CONTRACT DOCUMENTS CAUSED BY SITE CONDITIONS AND CHANGES MADE BY CHANGE ORDER OR ADDITIONAL INSTRUCTIONS. MAINLINE RECORDS SHALL BE MADE AVAILABLE ON-SITE FOR REVIEW THROUGHOUT THE CONSTRUCTION PERIOD. RECORDS SHALL BE MADE AVAILABLE TO THE ENGINEER FOR REVIEW THROUGHOUT THE CONSTRUCTION PERIOD. RECORDS SHALL BE MADE AVAILABLE TO THE ENGINEER FOR REVIEW THROUGHOUT THE CONSTRUCTION PERIOD.

5.12 CONCRETE CURES SHALL BE CONSTRUCTED TO CITY OF OTTAWA STANDARD PRACTICES. CONCRETE SHALL BE CONSTRUCTED TO CITY OF OTTAWA STANDARD PRACTICES. CONCRETE SHALL BE CONSTRUCTED TO CITY OF OTTAWA STANDARD PRACTICES.

5.13 WHETHER RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE PRODUCTS OR DAMAGE DUE TO OPERATIONS OF CURBS, SIDEWALKS AND ASPHALT SHALL BE CORRECTED OR REMOVED AND REPLACED. PROMPTLY MAKE GOOD OTHER CONTRACTORS WORK DAMAGED BY SUCH REMOVALS OR REPLACEMENTS.

5.14 EXISTING PAVEMENT SHALL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN ADEQUATE DRAINAGE AND TO PREVENT OVERLAYING PAVEMENT WHICH WILL CAUSE TRAFFIC DIFFICULTIES.

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6. EMENTAL:

6.1 LIGHT DUTY ASPHALT PAVEMENT:

- 50 mm H-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 100 mm H-4 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- HEAVY DUTY ASPHALT PAVEMENT:
- 50 mm H-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 100 mm H-4 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150 mm OPS GRANULAR A BASE
- 400 mm OPS GRANULAR B TYPE II SUB-BASE
- ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PG58-34.

6.2 ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PG58-34.

6.3 ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PG58-34.

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6.16 ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PG58-34.

6.17 ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PG58-34.

1. GENERAL:

1.1 USE BAR SCALE TO CONFIRM ACTUAL SIZES, DISTANCES AND NEW ELEVATIONS AND INVERTS SHOWN ARE GEOMETRIC AND ARE IN METERS. ALL PIPE UNLESS OTHERWISE STATED. ENGINEER REFERS TO D.B. GRAY ENGINEERING INC.

1.2 UNLESS OTHERWISE STATED, ENGINEER REFERS TO D.B. GRAY ENGINEERING INC.

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1.13 UNLESS OTHERWISE STATED, ENGINEER REFERS TO D.B. GRAY ENGINEERING INC.

2. EROSION AND SEDIMENT CONTROL PLAN:

2.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.

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3. EROSION & SEDIMENT CONTROL PLAN:

3.1 NEW GRADINGS TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS GRADING SHALL BE CONDUCTED. GRADING SHALL BE CONDUCTED TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS GRADING SHALL BE CONDUCTED.

3.2 NEW GRADINGS TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS GRADING SHALL BE CONDUCTED. GRADING SHALL BE CONDUCTED TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS GRADING SHALL BE CONDUCTED.

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3.5 NEW GRADINGS TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS GRADING SHALL BE CONDUCTED. GRADING SHALL BE CONDUCTED TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS GRADING SHALL BE CONDUCTED.

4. SITE SERVICES:

4.1 SEWER MATERIAL SHALL BE PVC, SPP-20 FOR AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELLS AND SPIGOT JOINTS WITH RUBBER GASKETS. SEWER MATERIAL SHALL BE PVC, SPP-20 FOR AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELLS AND SPIGOT JOINTS WITH RUBBER GASKETS.

4.2 SEWER MATERIAL SHALL BE PVC, SPP-20 FOR AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELLS AND SPIGOT JOINTS WITH RUBBER GASKETS. SEWER MATERIAL SHALL BE PVC, SPP-20 FOR AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELLS AND SPIGOT JOINTS WITH RUBBER GASKETS.

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5. CONSTRUCTION:

5.1 PRIOR TO COMMENCING WORK:

- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES.
- SIZE, DEPTH AND LOCATION OF EXISTING SERVICES, UTILITIES AND STRUCTURES AS INDICATED ON THE DRAWINGS ARE FOR GUIDANCE ONLY. ALL SERVICES, UTILITIES AND STRUCTURES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF EXISTING SERVICES, UTILITIES AND STRUCTURES.
- PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWN, FENCING, SERVICE POLES, WELLS, PAVEMENT, SURVEY BENCH MARKS AND MONUMENTS FROM DAMAGE FROM DAMAGING WHILE WORK IS IN PROGRESS. DO NOT DISTURB SOIL WITHIN BENCH MARK SURVEY OF TREES OR SHRUBS THAT ARE TO REMAIN.
- PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWN, FENCING, SERVICE POLES, WELLS, PAVEMENT, SURVEY BENCH MARKS AND MONUMENTS FROM DAMAGE FROM DAMAGING WHILE WORK IS IN PROGRESS. DO NOT DISTURB SOIL WITHIN BENCH MARK SURVEY OF TREES OR SHRUBS THAT ARE TO REMAIN.
- PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWN, FENCING, SERVICE POLES, WELLS, PAVEMENT, SURVEY BENCH MARKS AND MONUMENTS FROM DAMAGE FROM DAMAGING WHILE WORK IS IN PROGRESS. DO NOT DISTURB SOIL WITHIN BENCH MARK SURVEY OF TREES OR SHRUBS THAT ARE TO REMAIN.

5.2 MAINTAIN AND PROTECT FROM DAMAGE SERVICES, UTILITIES AND STRUCTURES ENCOUNTERED.

5.3 MAINTAIN AND PROTECT FROM DAMAGE SERVICES, UTILITIES AND STRUCTURES ENCOUNTERED.

5.4 PROVIDE TRAFFIC CONTROL AND SAFETY MEASURES INCLUDING ANY NECESSARY PERSONNEL AND THE SUPPORT EQUIPMENT, SIGNAGE AND REPLACEMENT OF TRAFFIC SIGNS, SIGNALS AND BARRIERS, AS REQUIRED BY THE AUTHORITIES. IF APPLICABLE, TRAFFIC MANAGEMENT PLAN SHALL BE PREPARED AND SUBMITTED TO THE AUTHORITIES FOR APPROVAL PRIOR TO COMMENCING WORK.

5.5 REMOVE OBSTRUCTIONS, ICE AND SNOW FROM SURFACES TO BE DOWNGRADED.

5.6 GET PAVEMENT AND / OR SUBGRADE READY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK DENSELY AND CLEANLY.

