INC.

1.3 EXISTING ELEVATIONS AND LOCATIONS, INVERTS AND SIZES OF EXISTING SERVICES

& UTILITIES ARE NOT NECESSARILY SHOWN ON PLAN AND THOSE SHOWN ARE DERIVED FROM AMAILABLE INFORMATION AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING CONSTRUCTION. REPORT ANY DIFFERENCES TO ENGINEER.

UNDERGRENOUND LOCATES (INCLUDING ONTARIO ONE CALL: 1—800—400—2255) SHALL BE CONDUCTED PRIOR TO THE COMMENCEMENT OF ANY EXCANATION.

1.4 SITE BOUNDARIES AND EXISTING GRADES AND OTHER FEATURES DERIVED FROM TOPOGRAPHIC SURVEY PREPARED BY FARLEY, SMITH & DENIS SURVEYING LTD. JOB NO. 336—17.

1.5 REFER TO ARCHITECTURAL AND LANDSCAPE SITE PLANS FOR EXACT LOCATIONS OF BUILDINGS, PAVED AREAS, SIDEWALKS, PLANTERS ETC.

1.6 REFERENCE THE LATEST REVISION AND ALL ADDENDUMS OF THE GEOTECHNICAL INVESTIGATION BY PINCHIN LID FILE: 212056. SITE PREPARATION AND EXCAMATION AND BACKMENT SUB—GRADE PREPARATION AND EXCAMATION AND BACKMENT SUB—GRADE PREPARATION AND EXCAMATION AND BACKMENT SUB—GRADE PREPARATION OF THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.7 DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SERVICING BRIEF & STORM WATER MANAGEMENT REPORT NO. 17045 PREPARED BY D. B. GRAY ENGINEERING INC. 1.9 REINSTATE CITY PROPERTIES TO CITY STANDARDS AND TO CITY OF OTTAWA'S STANDARDS AND SPECIFICATIONS.

1.10 ALL RELEVANT WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY STANDARDS AND SPECIFICATIONS.

1.11 ONTARIO PROVINCIAL STANDARDS & SPECIFICATIONS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE. 1.1 USE BAR SCALE TO CONFIRM ACTUAL PLOT SCALE. EXISTING AND NEW ELEVATIONS AND INVERTS SHOWN ARE GEODETIC AND ARE IN METERS. ALL PIPE DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
1.2 UNLESS OTHERWISE STATED "ENGINEER" REFERS TO D. B. GRAY ENGINEERING

2. EROSION AND SEDIMENT CONTROL PLAN

2.1 THE EROSION AND SEDIMENT CONTROL PLAN IS A "LIVING DOCUMENT" AND SHALL BE REVISED IN THE EVENT THE SPECIFIED CONTROL MEASURES ARE NOT SHALL BE REVISED IN THE EVENT THE SPECIFIED CONTROL MEASURES ARE NOT SUFFICIENT. THE CONTRACTOR SHALL MAPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECENING WATER COURSE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING SEDIMENT CAPTURE FILTER SOCK INSERTS IN CATCH BASINS AND MANHOLES AND INSTALLING SILT FENCES AND OTHER FFFECTIVE SEDIMENT TRAPS. THE CONTRACTOR ACKNOWLEDGES THAT FALLURE TO IMPLEMENT APPROPRIATE REOSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE RECOLLATORY AGENCY.

2.2 PRIOR TO COMMENCEMENT OF CONSTRUCTION AT ALL MUNICIPAL CATCH BASINS AS THEY APPLICABLE RECOLLATORY AGENCY.

CAPLICABLE RECOLLATORY AGENCY.

CONSTRUCTION SOURCES AND AT ANY MANHOLES OR CATCH BASINS AS THEY ARE INSTALLED. INSTALL SEDIMENT CAPTURE FILTER SOCK INSERTS (TERRAFIX GEOSYNHETICS) INSTALL SEDIMENT CAPTURE FILTER SOCK INSERTS (TERRAFIX GEOSYNHETICS) INSTALL SEDIMENT CAPTURE FILTER SOCK INSERTS (TERRAFIX GEOSYNHETICS) INSTALL SEDIMENT OF REPROVED EQUAL). INSPECT AT THE END OF EACH DAY BY SWEEPING ON PUBLIC ROAD SHALL BE REMOVED AT THE CONVEYANCE SYSTEM.

2.4 CONSTRUCTION IS CONSIDERED COMPLETE.

3.5 ANY MATERIAL DEPOSITED ON PUBLIC ROAD SHALL BE REMOVED AT THE CONVEYANCE SYSTEM.

3.4 CONSTRUCTION IS CONSIDERED COMPLETE.

4.4 LHARD SURFACES HAVE BEEN

5.4 CONSTRUCTION IS CONSIDERED ON THE WEN THE FOLLOWING CONDITIONS HAVE BEEN

6.4 LHARD SURFACES HAVE BEEN

7.4 CHERCOSOD (MAY 15TH TO SEPTEMBER 15TH).

8.4 LHARD SURFACES HAVE BEEN

9.4 LHARD SURFACES HAVE BEEN

1.5 THER ASSURBED TO THE WILL.

1.5 THER ASSURBED TO THE WORLD WASSURES WHEN CONSTRUCTION IS COMPLETE.

& DRAINAGE GRADING

3.1 NEW GRADES TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS DRAINAGE WILL BE DIRECTED TOWARDS THE ADJACENT PROPERTIES DURING AND AFTER CONSTRUCTION. THERE WILL BE NO ALTERATION TO EXISTING GRADE AND DRAINAGE PATTERNS ON PROPERTY LINE.

3.2 ALL AREAS SHALL BE GRADED TO ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO CATCH BASINS, SWALES, DITCHES AND OTHER APPROVED DISPOSAL AREAS. GRADING SHALL BE GRADUAL BETWEEN FINISHED SPOT ELEVATIONS SHOWN ON DRAWINGS TO PREVENT PONDING (OTHER THAN PONDING REQUIRED FOR

SITE SERVICES

4.1 BLANK EXISTING WATER SERVICE CONNECTIONS TO BE ABANDONED AT CITY WATERMAIN BY CITY FORCES. CONTRACTOR SHALL PROVIDE EXCAVATION, BACKFILL AND REINSTATEMENT. AT THE PROPERTY LINE INSTALL A WATERTIGHT CAP AT ENDS OF EXISTING STORM AND SANITARY SEWERS CONNECTIONS TO BE ABANDONED.

4.2 WATER METER SHALL BE INSTALLED AS PER CITY OF OTTAWA DWG. No. W31.

4.3 ALL WATER SERVICE MATERIALS AND CONSTRUCTION METHODS TO CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS SPECIFICATIONS (OPSS & OPSD). WATER SERVICE MATERIALS SHALL BE PEX TUBING TO AWWA C-904 SDR 9 (CTS). METALLIC WARNING TAPE SHALL BE INSTALLED OVER ALL WATERMAINS. CONNECTION TO WATERMAIN BY CITY OF OTTAWA FORCES, CONTRACTOR SHALL PROVIDE EXCAVATION, BACKFILL AND REINSTATEMENT.

4.4 PROVIDE EXCAVATION, BACKFILL AND REINSTATEMENT.

THE MINIMUM COVER IS NOT POSSIBLE INSULATE AS PER CITY OF OTTAWA DWG. No. W22.

4.5 WHERE LESS THAN 2.4 m CLEARANCE FROM AN OPEN STRUCTURE (EG. MANHOLES & CATCH BASINS) PLACE INSULATION AROUND AND WATER SERVICE CONNECTIONS AS PER CITY OF OTTAWA DWG. No. W23.

4.6 WATER SERVICE CONNECTION SHALL BE CONSTRUCTED OF A SINGLE RUN OF PIPE WITH NO JOINTS OR FITTINGS BETWEEN THE CURB STOP AND THE INSIDE FACE OF THE BUILDING.

4.7 THE SANITARY BUILDING DRAIN SHALL BE INSTALLED WITH A FULL—PORT BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.1 OR S14.2.

4.8 THE DRAIN SERVING THE FOUNDATION DRAINS SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.

4.9 CONNECT PROPOSED SANITARY SEWER SERVICE CONNECTION TO EXISTING MUNICIPAL SANITARY SEWER AS PER CITY OF OTTAWA DWG No. S11.1 (FLEXIBLE MAIN SEWER).

4.10 CONNECT PROPOSED STORM SEWER SERVICE CONNECTION TO EXISTING MUNICIPAL STORM SEWER AS PER CITY OF OTTAWA DWG No. S11 (RIGID MAIN SEWER).

4.11 ALL SEWER MATERIALS AND CONSTRUCTION METHODS TO CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS SPECIFICATIONS (OPSS & OPSD). SEWER MATERIAL SHALL BE PVC SDR-28 AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. WITH RUBBER GASKETS TO CSA A-257.3.

4.12 ROOF DRAINS ON THE 4TH LEVEL ROOF SHALL BE FLOW CONTROL TYPE EACH INSTALLED WITH A WEIR WITH A PARABOLIC SLOT. EACH SLOT SHALL RELEASE 5 USGPM/inch: WATTS ROOF DRAIN WITH WATTS ACCUTROL WEIR RD-100-A1 OR EQUAL. ALL OTHER ROOF DRAINS SHALL BE INSTALLED AT THE LOW POINTS OF THE ROOF WHICH SHALL BE 145mm LOWER THAN THE PERIMETER OF THE ROOF. SCUPPERS SHALL BE INSTALLED SO THAT THE MAXIMUM DEPTH OF WATER ON THE ROOF CANNOT EXCEED 145mm. SCUPPERS SHALL BE A MINIMUM 300mm WIDTH. REFER TO ARCHITECTS PLAN FOR EXACT LOCATION AND DETAILS. PRIOR TO INSTALLATION SUBMIT SHOP DRAWING TO ENGINEER FOR APPROVAL.

SESSARY PERMITS AND APPROVALS FROM THE 5.1 PRIOR TO COMMENCING WORK:
A. OBTAIN AND PAY FOR ALL NECAUTHORITIES.

B. SIZE, DEPTH AND LOCATION OF EXISTING SERVICES, UTILITIES AND STRUCTURES AS INDICATED ON THE DRAWINGS ARE FOR GUIDANCE ONLY. ALL EXISTING SERVICES, UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. COMPLETENESS AND ACCURACY ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. NOTIFY ALL APPLICABLE OWNERS, UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION OF PROPOSED WORK AND LOCATE AND CLEARLY IDENTIFY ALL EXISTING SERVICES, UTILITIES AND STRUCTURES ON AND ADJACENT TO THE SITE. UNDERGROUND LOCATES (INCLUDING ONTARIO ONE CALL: 1—800—400—2255) SHALL BE CONDUCTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION. CONFIRM LOCATIONS OF BURIED SERVICES AND UTILITIES BY CAREFUL TEST EXCAVATIONS AND REPORT ANY DIFFERENCES TO THE ENGINEER.

C. EXISTING GRADE ELEVATIONS INDICATED ON THE DRAWINGS ARE FOR GUIDANCE ONLY. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. CONFIRM EXISTING GRADE ELEVATIONS AND REPORT ANY DIFFERENCES TO THE ENGINEER.

D. COORDINATE AND SCHEDULE WORK WITH THE AUTHORITIES AND OTHER TRADES.

E. SCHEDULE WORK TO PROVIDE THE MINIMUM DISRUPTION TO SERVICES.

E. SCHEDULE WORK TO PROVIDE THE MINIMUM DISRUPTION TO SERVICES.

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

5.3 PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWNS, FENCING, SERVICE POLES, WIRES, PARMENT, SURVEY BENCH MARKS AND MOUNDMENTS AND OTHER SURFACE FEATURES FROM SAFETY MESCURES.

5.4 PROVIDE TRAFFIC CONTROL AND SAFETY MESCURES INCLUDING ANY NECESSARY PERSONNEL AND THE SUPPLY, INSTALLATION, REMOVAL AND REPLACEMENT OF ALL NECESSARY SIGNAGE AND BARRIERS, AS RECOURED BY THE AUTHORITIES. IF APPLICABLE, PROVIDE TRAFFIC MANAGEMENT PLAN AS PER CITY OF OTTAWA REQUIREMENTS.

5.5 CUT PAYEMENT AND / OR SIDEWALK NEATLY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK EVENLY AND CLEANLY.

5.7 CONDENIARE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUND MATERIAL, BACKFILL, SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUND MATERIAL BACKFILL, SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUND MATERIAL AS PER THE CONSULTANT AND PAY NOW EACH LAYER OF SURROUND MATERIAL AS PER THE COTECHNICAL REPORTS TO ENGINEER. SUBMIT GEOTECHNICAL INSPECTIONS AND COMPACTION REPORTS TO ENGINEER.

5.8 DISPOSE OF SURPLUS AND UNSUITABLE EXCAVATED NOT THE GEOTECHNICAL REPORTS AND EACH LAYER OF STREAM ATTERIAL AS PER THE CONSULTANT. STOCKPILE GRANULAR AND FILL MATERIALS IN MANINER TO PREVENT SEGRECATION AND PROTECT SLOPES AND BANKS AND PROFECT ONLY AND ONLY HORDEN ALL WORK IN A ACCORDANCE WITH AND SAFETY ACT AND OTHER AUTHORITIES HAVING UNISSDICTION.

6.9 EXCAVATION. RENCHING & BACKFILL:

8. KFFF FYGNAMINAL FEATH AND SAFETY ACT AND OTHER AUTHORITIES HAVING UNISSDICTION.

9. HERFE FYGNAMINAL FEATH AND SAFETY ACT AND OTHER AUTHORITIES HAVING UNISSDICTION.

WATER WHILE WORK IS IN PROGRESS. FLOODING AND DAMAGE DUE TO SURFACE B. KEEP EXCAVATIONS FREE OF PROTECT OPEN EXCAVATIONS AGAINST RUN—OFF.

C. EXCAVATION MUST NOT INTERFERE WITH BEARING CAPACITY OF ADJACENT FOUNDATIONS. SURFACE DRAINAGE OR NATURAL D. DO NOT OBSTRUCT FLOW OF WATERCOURSES.

E. EXCAVATE TO LINES, GRADES, ELEVATIONS AND DIMENSIONS AS INDICATED.

F. EARTH BOTTOMS OF EXCAVATIONS TO BE UNDISTURBED SOIL, LEVEL, FREE FROM LOOSE, SOFT OR ORGANIC MATTER.

G. ALL STRUCTURES WITHIN PAVED AREAS SHALL HAVE 4:1 FROST TAPERS FROM FROST LINE TO SUB-GRADE.

H. CORRECT OVER-EXCAVATION WITH GRANULAR A COMPACTED TO NOT LESS THAN 95% OF CORRECTED MAXIMUM DRY DENSITY.

I. SUB-GRADE AND AREAS TO BE BACKFILLED TO BE FREE FROM DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND.

J. DO NOT USE BACKFILL MATERIAL WHICH IS FROZEN OR CONTAINS ICE, SNOW OR DEBRIS.

TERRACE

2ND LEVEL

- DRAIN NTROLLED)

ROOF

R POND AT ROOF 90 mm

ΑI

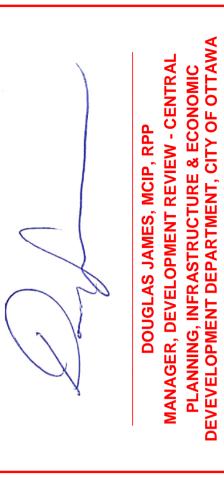
100 YEAR POND DEPTH ROOF DRAIN: 120 mm

FLOW CONTROL ROOF DRAINS
1 SLOT PER WEIR
0.0124 I/s / mm / slot
(5 USgpm / in / slot)
(MAXIMUM RELEASE RATE PER
ROOF DRAIN: 1.65 I/s)

3RD LEVEL ROOF

100 YEAR POND DEPTH ROOF DRAIN: 120 mm

R. EEDDNIG AND SURPOUND WETERAL FOR WITERAMIN AND WATER SERVICE
CONNECTIONS SHALL BE POSS GRANULAR AN GREATER STRANGE
CONNECTION STATE TO PROPRIED THE CONNECTION STRANGE AND THE CONNECTION STATE TO THE CONNECTION STATE TO



REMOTE WATER METER READOUT UTILITY POLE

CATCH BASIN/MAN

CB/MH◎

WS/WM SAN

VALVE & VALVE

R & S

- STORM

CURB STOP

FIRE HYDRANT

DRAWING LEGEND

CATCH BASIN

П

MANHOLE

⊚ ₩

(R) REMOTE WATER METER READOU

UP O UTILITY POLE

(S) EXISTING GRADE ELEVATION

+ 93.79 PROPOSED GRADE ELEVATION

D.C. 150mm ATTERMENT OF THE CONTROL OF THE

CURB / DEPRESSED

SLOPE OF GRADE

0.5%

5:20 pm, APPROVED
By Douglas James

IDE OF FOOTING ELEVA

ROGERS CABLE

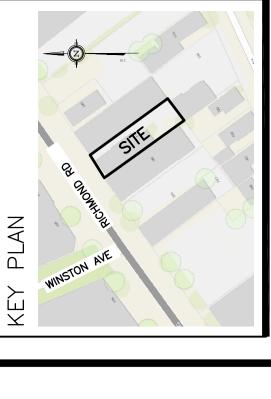
GAS METER

(i)

BASEMENT FLOOR ELEVATION

FIRST FLOOR ELEVATION

댐



THERE SHALL BE NO VERTICAL DRAIN DIRECTLY CONNECTING TO THE	FOUNDATION DRAINS
TOF = 68.55	>,
GEOTEXTILE FABRIC 300mm OVERLAP AT JOINTS MIN. 200mm	GEOTEXTILE FABRIC 300mm OVERLAP AT JOINTS FOUNDATION DRAIN SOOmm SOOmm SOOmm
	· — · · · —

TABL Ш PROFIL SERVICE WATER

14 SDR 9 (CTS)	COMMENTS	_	ON PROPERTY LINE	ENTRY INTO BUILDING
06-0	TOP OF DEPTH OF COVER	±2.34	2.40	2.40
MATERIAL: TO AWWA	TOP OF PIPE	±67.61 ±65.27	65.39	65.52
MATE TO A	GRADE ELEV.	±67.61	67.79	67.92
MATERIAL: 50mm PEX TUBING TO AWWA C—904 SDR 9 (CTS)	DESCRIPTION	TVS CONNECTION TO 300mm MUNICIPAL WATERMAIN AS PER CITY OF OTTAWA DRAWING No. W33	50mm CURB STOP & SERVICE POST TO CITY OF OTTAWA STANDARDS	-
5(STATION	0+00.0	0+04.5	0+10.8

2ND LEVEL

SCUPPER

O
ROOF DRAIN
(UNCONTROLLED)

5 YEAR POND DEPTH AT ROOF DRAIN: 90 mm

DETAILS	Drawn D.E Hor. Scale 1:1 Vert. Scale Date SEP 25 Job No. 1704 Of 3
ళ	SCINEER ON SO
S	DAN CANTESS DATE OF THE STATE O

Drawn D.B.G.	Hor. Scale 1:100	Vert. Scale	Date SEP 25-17	Job No. 17045	Drawing No.	7-7)	of 3	#17836
									1

7	٤١	ΙO	-	<u></u>	ļ-	-7	<u>.</u>	_	·L	DO	
	Drawn D.B.G.	Hor. Scale 1:100	Vert. Scale	Date SEP 25-17	Job No. 17045		Drawing No.	۲ () 	of 3	

