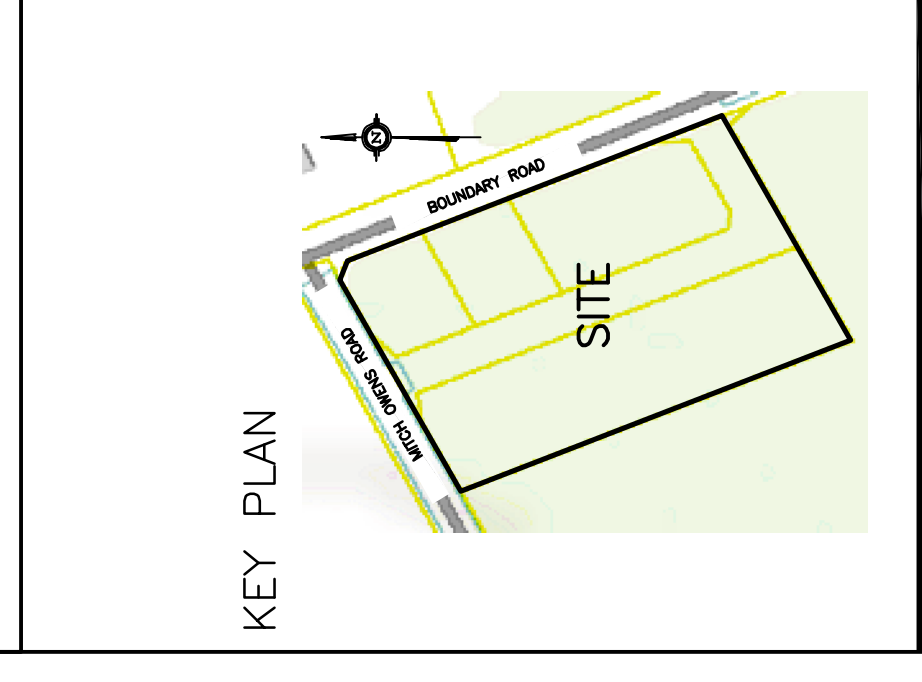


DRAWING LEGEND

CB	CATCH BASIN
WM	WATER MAIN
WT	WATER SERVICE / WATERMAIN
ST	STORM SEWER
SH	STORM SEWER
PH	PROPOSED FIRE HYDRANT
PC	PROPOSED FIRE DEPARTMENT CONNECTION
UP	UTILITY POLE
+	EXISTING GRADE ELEVATION
+B379	PROPOSED GRADE ELEVATION
CONCRETE	CONCRETE
GRANULAR SURFACE	GRANULAR SURFACE
HEAVY DUTY PAVEMENT	HEAVY DUTY PAVEMENT
SLOPE OF GRADE	SLOPE OF GRADE
EXISTING SLOPE OF GRADE	EXISTING SLOPE OF GRADE
EMERGENCY OVERLAND FLOW	EMERGENCY OVERLAND FLOW
SM/SL/DITCH (CENTRINGS)	SM/SL/DITCH (CENTRINGS)
USA	TOP OF SLOPE
USA	BOTTOM OF SLOPE
150mm CORR / DEPOSED CURB	150mm CORR / DEPOSED CURB
PROPERTY LINE	PROPERTY LINE
FL	FIRST FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING ELEVATION



No.	Date	REVISION
8	JUN 25-19	CITY FILE & PLAN NO. ADDED RE-ISSUED FOR APPROVAL
7	MAY 2-19	RE-ISSUED FOR APPROVAL
6	MAR 20-19	ISSUED FOR BUILDING PERMIT
5	MAR 5-19	RE-ISSUED FOR APPROVAL
4	FEB 22-19	RE-ISSUED TO OSSO FOR SEPTIC PERMIT
3	DEC 19-18	ISSUED FOR APPROVAL
2	DEC 13-18	ISSUED TO OSSO FOR SEPTIC PERMIT
1	JUN 9-18	ISSUED FOR CLIENT REVIEW

D. B. GRAY ENGINEERING INC.
 Professional Engineers
 700 Long Point Circle
 Ottawa, Ontario K1T 4E9
 Tel: 613-425-9044
 dgray@ingers.com

**PROPOSED
 CROSS DOCK FACILITY
 MITCH OWENS ROAD /
 BOUNDARY ROAD**
 OTTAWA, ONTARIO

NOTES & DETAILS

Engineer's Seal
 D.B. GRAY
 1701 8502
 1997-2021
 PROFESSIONAL ENGINEER
 CIVIL
 ONTARIO
 D.B.G.
 Heli. Scale AS NOTED
 Vert. Scale
 Date DEC 19-18
 Job No. 18029
**C-5
 of 8**
 NOT VALID UNLESS
 SIGNED & DATED

5. CONSTRUCTION

5.1 PRIOR TO COMMENCING WORK:

5.1.1 VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND APPROVALS FROM THE AUTHORITIES. DRAWINGS ARE FOR GUIDANCE ONLY. ALL EXISTING SERVICES, UTILITIES AND STRUCTURES ARE NOT NECESSARILY IDENTIFIED BY THIS DRAWING. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES ON AND ADJACENT TO THE SITE, UNDERGROUND OR ABOVE GROUND, AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES. GENERAL LOCATIONS OF BURIED SERVICES AND UTILITIES TO BE CAREFULLY TEST EXCAVATIONS AND REPORT ANY DIFFERENCES TO THE ENGINEER.

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

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, PAVEMENT, SURVEY BENCH MARKS AND MONUMENTS AND OTHER SURFACE FEATURES FROM DAMAGE WHILE WORK IS IN PROGRESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES.

5.4 PROVIDE TRAFFIC CONTROL AND SAFETY MEASURES INCLUDING ANY NECESSARY PERSONNEL AND THE SUPPLY, INSTALLATION, REMOVAL AND REPLACEMENT OF ALL NECESSARY SIGNS AND BARRIERS, AS REQUIRED BY THE MUNICIPALITY AND AS DIRECTED BY THE ENGINEER.

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

5.6 CUT PAVEMENT AND / OR SIDEWALK NEARLY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK EVENLY AND CLEANLY.

5.7 COORDINATE AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT COMPACTON REPORTS TO ENGINEER.

5.8 PRIOR TO COMMENCEMENT OF TOPSOIL STRIPPING REMOVE FROM SITE ALL EXPOSED BOLLIDERS, DEBRIS AND OTHER MATERIALS. TOPSOIL SHALL BE STORED IN A SECURE LOCATION AND PROTECTED FROM WEATHER. TOPSOIL SHALL NOT BE MIXED WITH SUBSOIL. CUT AND FILL AS NECESSARY TO ACHIEVE THE REQUIRED SUB-GRADE ELEVATION. DISPOSE OF SUPERFLUOUS TOPSOIL AND FILL AS DIRECTED BY THE ENGINEER.

5.9 STOCKPILE GRANULAR AND FILL MATERIALS IN MANNER TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT. ALL MATERIALS SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

5.10 EXCAVATIONS SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

5.11 EXCAVATIONS SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

5.12 EXCAVATIONS SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

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5.19 EXCAVATIONS SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

5.20 EXCAVATIONS SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

6. PAVEMENT

6.1 PAVEMENT STRUCTURE

6.1.1 GRANULAR SURFACE

150mm OPSS GRANULAR A BASE, OVER

450mm OPSS GRANULAR B TYPE II SUB-BASE, OVER

GEOTEXTILE SEPARATION (OPSS 1860 CLASS II WOVEN)

LIGHT DUTY PAVEMENT:

150mm OPSS GRANULAR A BASE, OVER

300mm OPSS GRANULAR B TYPE II SUB-BASE, OVER

GEOTEXTILE SEPARATION (OPSS 1860 CLASS II WOVEN)

HEAVY DUTY PAVEMENT:

12.5 TRAFFIC LEVEL D, P645-34, ASPHALTIC CONCRETE, OVER

45mm SUPERPAVE 12.5 TRAFFIC LEVEL D, P645-34, ASPHALTIC CONCRETE, OVER

150mm OPSS GRANULAR A BASE, OVER

450mm OPSS GRANULAR B TYPE II (100mm MINUS CRUSHED STONE) SUB-BASE, OVER

GEOTEXTILE SEPARATION (OPSS 1860 CLASS II WOVEN)

RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED.

6.2 REMOVE ALL MATERIALS TO THE SUB-GRADE LEVEL. REMOVE ORGANIC OR UNSUITABLE MATERIAL FROM FROM DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND.

6.3 CONSTRUCT GRANULAR BASE AND SUB-BASE TO DEPTH AND AREAS INDICATED. CONSTRUCT A 5:1V HORIZONTAL TO 1:1V VERTICAL SLOPE ON ALL EXCAVATION SIDES. ALL EXCAVATION SIDES SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

6.4 ENSURE NO FROZEN MATERIAL IS PLACED. PLACE MATERIAL ONLY ON CLEAN UNFROZEN THICKNESS. SHAPE EACH LAYER TO SMOOTH CONTOUR AND COMPACT TO SPECIFIED DENSITY BEFORE SUCCEEDING LAYER IS PLACED. NOT LESS THAN 100% CORRECTED MAXIMUM DRY DENSITY.

6.5 COMPACT SUB-BASE MATERIAL TO DENSITY OF NOT LESS THAN 98% CORRECTED MAXIMUM DRY DENSITY. FILL WITH NOT LESS THAN 100% CORRECTED MAXIMUM DRY DENSITY.

6.6 REPLACE PAVEMENT DISTURBED BY CONSTRUCTION AND REPLACE WITH PAVEMENT STRUCTURE ABOVE.

6.7 IN AREAS NOT ACCESSIBLE TO ROLLING EQUIPMENT, COMPACT TO SPECIFIED DENSITY WITH MECHANICAL TAMPERS.

6.8 WHERE NEW ASPHALT COMES IN CONTACT WITH EXISTING PAVEMENT, SANDWICH EXISTING ASPHALT LAYER TO EXISTING ASPHALT LAYER WITH A 10mm GAP. REMOVE ALL EXISTING ASPHALT LAYER TO EXISTING ASPHALT LAYER. MAKE INCLUDING EXISTING PAVEMENT SURFACES THAT HAVE BEEN CUT, GROUND OR WELDED. TACK COAT THE EXISTING ASPHALT LAYER WITH A 10mm GAP. ALL EXISTING ASPHALT LAYER SHALL BE PROTECTED FROM WEATHER AND PROTECT FROM CONTAMINATION.

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6.10 APPLY ASPHALT COURSE AS PER CITY DWS 56 & 57.

6.11 FINISH SURFACE SMOOTH, TRUE TO GRADE.

6.12 FINISH SURFACE SMOOTH, TRUE TO GRADE.

6.13 FINISH SURFACE SMOOTH, TRUE TO GRADE.

6.14 KEEP VEHICULAR TRAFFIC AND OTHER LOADS OFF NEWLY PAVED AREAS UNTIL 24 HOURS AFTER PAVING.

6.15 KEEP UNPAVED AREAS AND WASTE ASPHALT TO A FACILITY APPROVED FOR ACCEPTING SUCH MATERIALS.

6.16 REMOVE ALL EXCESS ASPHALT AND OTHER FOREIGN PARTICLES. APPLY TO DRY PAVEMENT SURFACE FREE FROM FROST, ICE, DUST, OIL, GREASE AND OTHER FOREIGN MATERIALS. PROTECT PAVEMENT MARKINGS UNTIL DRY.

7. EROSION AND SEDIMENT CONTROL PLAN

7.1 THE EROSION AND SEDIMENT CONTROL PLAN IS A TYPING DOCUMENT AND SHALL BE REVISED IN THE EVENT THE SPECIFIED CONTROL MEASURES ARE NOT SUFFICIENT. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES. NECESSARILY SHOWN ON PLAN AND THOSE SHOWN ARE DERIVED FROM AVAILABLE INFORMATION AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING CONSTRUCTION. REPORT ANY DIFFERENCES TO ENGINEER. UNDERGROUND INFORMATION SHOWN HEREON IS BASED ON PLANS 4R-8132, 4R-8158 AND 5R-13558.

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7.3 REFER TO ARCHITECTURAL AND LANDSCAPE SITE PLANS FOR EXACT LOCATIONS OF BUILDINGS, PAVED AREAS, DRIVEWAYS, PATIOS, DECKS, POOLS, AND OTHER FEATURES.

7.4 CONSULT WITH THE LATEST REVISION AND ALL ADDENDUMS OF THE GEOTECHNICAL INVESTIGATION BY GEMEC CONSULTING ENGINEERS AND SCIENTISTS LIMITED, AS PER THE GEOTECHNICAL INVESTIGATION THE SUBJECT SITE IS BEING CONSTRUCTED ON.

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7.7 DRAWINGS ARE TO BE READ IN CONJUNCTION WITH "SERVICING BREF" & STORM WATER MANAGEMENT REPORT NO. 189.

7.8 REINSTATE ADJACENT PROPERTIES TO PRE-CONSTRUCTION CONDITIONS.

7.9 REINSTATE CITY PROPERTIES TO CITY STANDARDS AND TO CITY OF OTTAWA'S SATISFACTION.

7.10 REINSTATE ADJACENT PROPERTIES TO PRE-CONSTRUCTION CONDITIONS.

7.11 ONTARIO PROVINCIAL STANDARDS & SPECIFICATIONS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE.

8. GRADING & DRAINAGE

8.1 NEW GRADES TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS DRAINAGE WILL BE DIRECTED TOWARDS THE ADJACENT PROPERTIES. DRAINAGE SYSTEMS SHALL BE DESIGNED TO PREVENT PONDING AND TO DRAIN TO EXISTING GRADE OR TO A DRAINAGE SYSTEM.

8.2 ALL AREAS SHALL BE GRADED TO ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO CATCH BASINS, DRAINAGE SYSTEMS, OR TO A DRAINAGE SYSTEM. DRAINAGE SYSTEMS SHALL BE DESIGNED TO PREVENT PONDING (OTHER THAN PONDING REQUIRED FOR STORMWATER MANAGEMENT).

8.3 ALL AREAS SHALL BE GRADED TO ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO CATCH BASINS, DRAINAGE SYSTEMS, OR TO A DRAINAGE SYSTEM. DRAINAGE SYSTEMS SHALL BE DESIGNED TO PREVENT PONDING (OTHER THAN PONDING REQUIRED FOR STORMWATER MANAGEMENT).

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9. SITE SERVICES

9.1 PROVIDE A MINIMUM 2.1m COVER OVER WATER LINE WHERE THE MINIMUM COVER IS NOT POSSIBLE. INSULATE JOINTS FITTINGS BETWEEN THE WELL AND THE INSIDE FACE OF THE BUILDING.

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