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 WARE MALCOMB. DRAWING A1.0, PROJECT NAME: SHEFFIELD ROAD, RICHCRAFT, 2760-2770 SHEFFIELD ROAD, OTTAWA, ON. PROJECT No. OTW21-0002-01.
- TOPOGRAPHIC PLAN OF SURVEY SUPPLIED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. PROJECT No. 23119-22. PART OF BLOCK A REGISTERED PLAN 4M-121 AND PART OF LOTS 24 AND 25 CONCESSION 3 (OTTAWA FRONT), GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF OTTAWA.
- REFER TO LANDSCAPE ARCHITECTURE PLAN FOR ALL LANDSCAPING FEATURES (ie. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS, FENCES etc.)
- 0. GEOTECHNICAL INVESTIGATION GEOTECHNICAL INVESTIGATION PROPOSED INDUSTRIAL BUILDING, 2760-2770 SHEFFIELD ROAD, OTTAWA, ONTARIO. PREPARED BY PATERSON GROUP. DATED JANUARY 23, 2023. REPORT No PG6530-1. 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.
- 11. STREET LIGHTING TO CITY OF OTTAWA STANDARDS.
- 12. 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. 13. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR
- WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND DIRECTOR OF ENGINEERING HAS BEEN OBTAINED. 4. 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 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- 4. 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).
- O. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER CITY STANDARDS SC3 AND SC1.4. 0. PAVEMENT CONSTRUCTION AS PER GEOTECHNICAL INVESTIGATION PROPOSED INDUSTRIAL BUILDING, 2760-2770 SHEFFIELD ROAD,
- OTTAWA, ON. PREPARED BY PATERSON GROUP. DATED JANUARY 23, 2023. PROJECT No. PG6530-1 PAVEMENT STRUCTURE - CAR PARKING ONLY 50mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150mm OPSS GRANULAR 'A' BASE 300mm OPSS GRANULAR 'B' TYPE II
- PAVEMENT STRUCTURE ACCESS LANES AND HEAVY TRUKS 40mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 50mm HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE 150mm OPSS GRANULAR 'A' BASE
- 450mm OPSS GRANULAR 'B' TYPE II WATER SUPPLY SERVICING
- 10. 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.200 DR18. DEFLECTION OF WATERMAIN PIPE IS NOT TO EXCEED 1/2 OF THAT 4. 100 YEAR PONDING DEPTH TO BE 0.30m (MAXIMUM).

SPECIFIED BY THE MANUFACTURER. PVC WATERMAINS TO BE INSTALLED WITH TRACER WIRE IN ACCORDANCE WITH CITY OF

12. FIRE HYDRANTS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W18 AND W19.

OTTAWA STANDARD W36.

- 13. WATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W24.
- 14. WATERMAIN TRENCH SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W17 UNLESS OTHERWISE SPECIFIED. BEDDING AND
- COVER MATERIAL AS PER SECTION 6.4 OF THE GEOTECH REPORT. 15. 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 CB'S ON THE W/M STREET SIDE WHERE 2400mm SEPARATION CANNOT BE ACHIEVED.(AS PER CITY
- OF OTTAWA W22 & W23) 16. CATHODIC PROTECTION TO BE SUPPLIED ON METALLIC FITTINGS AS 11. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE. PER CITY OF OTTAWA W40 AND W42.
- 17. THRUST BLOCKS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25.3 AND W25.4
- 18. WATERMAIN TO HAVE MIN. 2.4m COVER. WHERE WATERMAIN COVER 13. REFER TO DRAWING EC DS-1 FOR EROSION AND SEDIMENT IS LESS THAN 2.4m, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY STANDARD W22.
- 19. WATERMAIN CROSSINGS ABOVE AND BELOW SEWERS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W25 AND W25.2.
- 20. PRESSURE REDUCING VALVES (PRV'S) IF REQUIRED, TO BE INSTALLED AS PER ONTARIO PLUMBING CODE.
- **STORM AND SANITARY SEWERS**
- SANITARY SEWERS 375mm DIA. OR SMALLER SHALL BE PVC DR35. SANITARY SEWERS LARGER THAN 375mm SHALL BE CONCRETE CSA A 257.2 CLASS 100D AS PER OPSD 807.010. 2. STORM SEWERS 375mm DIA, OR SMALLER SHALL BE PVC DR35.
- STORM SEWERS LARGER THAN 375mm DIA. SHALL BE CONCRETE CSA A 257.2 CLASS 100D AS PER OPSD 807.010 3. ALL STORM AND SANITARY SEWER BEDDING SHALL BE INSTALLED AS PER SECTION 6.4 OF THE GEOTECH REPORT.
- 4. 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 S25 AND S28.1. ALL STORM MANHOLES WITH SEWERS 900mm DIA
- SEWERS AND OVER IN SIZE SHALL BE BENCHED. ALL OTHER STORM MANHOLES SHALL BE COMPLETED WITH 300mm SUMPS AS PER CITY STANDARDS, SANITARY MANHOLES SHALL NOT HAVE SUMPS. 5. ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, TO BE INSTALLED WITH LASER AND CHECKED WITH LEVEL INSTRUMENT
- PRIOR TO BACKFILLING. 6. 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. 7. ALL STORM AND SANITARY SERVICES TO BE EQUIPPED WITH
- APPROVED BACKWATER VALVES. 8. STORM AND SANITARY SERVICE LATERALS TO BE SDR 28 INSTALLED AT MIN. 1.0% SLOPE.
- 9. CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS S1, S2, S3 c/w FRAME AND GRATE AS PER S19. CURB INLET FRAME AND GRATE PER S22 AND S23. CATCH BASIN MANHOLES FRAME AND GRATE AS PER S25 FRAME AND S28.1 COVER. PROVIDE 150mm ADJUSTED SPACERS. ALL CATCH BASINS SHALL HAVE SUMPS (600mm DEEP). STREET CATCH BASIN LEADS SHALL BE 200mm DIA.(MIN) PVC DR 35 AT 1.0% GRADE WHERE NOT OTHERWISE SHOWN ON PLAN. CATCH BASINS WILL BE INSTALLED WITH INLET CONTROL DEVICES (ICD) AS PER ICD SCHEDULE ON STORM DRAINAGE PLAN.
- 10. STREET CATCH BASINS TO BE INSTALLED C/W SUBDRAINS 3m LONG IN 14. STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH. FOUR ORTHOGONAL DIRECTIONS OR LONGITUDINALLY WHEN PLACED ALONG A CURB, AND AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL.
- 11. REAR LOT PERFORATED PIPE TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS S29. REAR LOT STRUCTURES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W30 AND W31.
- 12. CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING S8. THE SEALS SHOULD BE AT LEAST 1.5m LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. GENERALLY, THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE BEDDING. SUBBEDDING AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPACTABLE BROWN SILTY CLAY PLACED IN MAXIMUM 225mm THICK LOOSE LAYERS COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO MORE THAN 60m INTERVALS IN THE SERVICE TRENCHES. FOR DETAILS REFER TO GEOTECHNICAL INVESTIGATION .
- 13. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300 MM AROUND ALL STRUCTURES WITHIN PAVEMENT AREA AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY. 14. 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.
- 15. ANY SEWER ABANDONMENT TO BE CONDUCTED ACCORDING TO CITY OF OTTAWA STANDARD S11.4 16. STORM SEWERS WITH LESS THAN 2.0m COVER AND SANITARY SEWERS WITH LESS THAN 2.5m COVER TO BE INSULATED IN ACCORDANCE WITH CITY STANDARD S35.
- GRADING
- 1. ALL GRANULAR BASE & SUB BASE COURSE MATERIALS SHALL BE COMPACTED TO 98% STANDARD PROCTOR MAX. DRY DENSITY.
- 2. SUB-EXCAVATE SOFT AREAS & FILL WITH GRANULAR 'B' COMPACTED IN 0.15m LAYERS.
- 3. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, WITH SOD ON MIN. 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER.

- EMBANKMENTS TO BE SLOPED AT MIN. 3:1, UNLESS OTHERWISE SPECIFIED.
- TO BE 1.5% OR 1.0% WHEN PERFORATED SUBDRAIN IS INSTALLED.
- OR THE BUILDING FOUNDATION DRAIN.
- SHOWN ON PLANS. REFER TO THE ELEVATION AT EDGE OF PAVEMENT, OR GUTTERLINE WHERE APPLICABLE.
- 9. ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT ARE TO BE
- 10. FENCES OR RAILINGS ARE REQUIRED FOR RETAINING WALLS GREATER THAN 0.60m IN HEIGHT.
- 12. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR
- CONTROL DETAILS.

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

- CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING FOLLOWING TECHNIQUES:
- 2. REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- RECEIVE RUN-OFF FROM THE SITE.
- 6. 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
- CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS OR DOWNSTREAM WATERCOURSES.
- WATERWAY.
- 10. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN. IN THE REQUIRED, NO CONTROL MEASURES SHALL BE PERMANENTLEY REMOVED
- WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- 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.
- MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.

ORIGINAL SHEET - ARCH E

6. ALL SWALES TO BE MIN. 0.15m DEEP WITH MIN. 3:1 SIDE SLOPES UNLESS OTHERWISE NOTED. THE MINIMUM LONGITUDINAL SLOPE

7. ALL ROOF DOWNSPOUTS TO DISCHARGE TO THE GROUND ONTO SPLASH PADS AND SHALL NOT BE DIRECTED TO THE STORM SEWER,

8. TOP OF GRATE (T/G) ELEVATIONS FOR ALL STREET CATCHBASINS

DESIGNED, APPROVED, AND STAMPED BY STRUCTURAL ENGINEER.

AND THE CITY OF OTTAWA PRIOR TO TREE CUTTING.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM

ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE

LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.

4. 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

A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY

OPERATIONS, ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN

BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS,

NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING

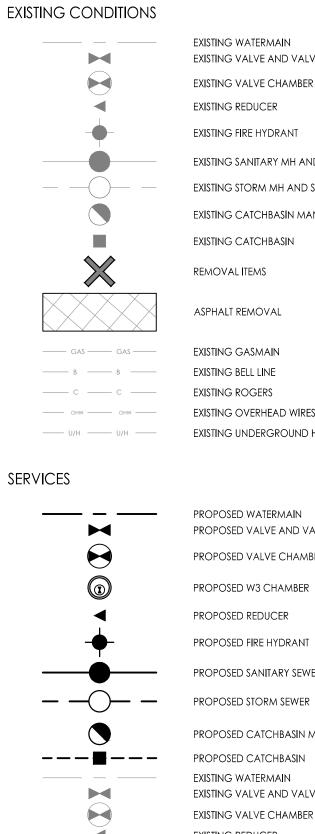
OPINION OF THE CONTRACT ADMINISTRATOR. THE MEASURE(S) IS NO LONGER

11. THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE

APPROPRIATE RESPONSE MEASURES INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL

13. CONTRACTOR SHALL INSTALL MUD MATS AT BOTH ENTRANCES TO THE SITE.

LEGEND



SANITARY DRAINAGE

12A

0.30 IND

/G100A`

\0.10|INFL

EXISTING WATERMAIN EXISTING VALVE AND VALVE BOX EXISTING VALVE CHAMBER EXISTING REDUCER EXISTING FIRE HYDRANT EXISTING SANITARY MH AND SEWER EXISTING STORM MH AND SEWER EXISTING CATCHBASIN MANHOLE EXISTING CATCHBASIN **REMOVAL ITEMS**

ASPHALT REMOVAL EXISTING GASMAIN EXISTING BELL LINE EXISTING ROGERS EXISTING OVERHEAD WIRES

EXISTING UNDERGROUND HYDRO

PROPOSED WATERMAIN PROPOSED VALVE AND VALVE BOX PROPOSED VALVE CHAMBER PROPOSED W3 CHAMBER PROPOSED REDUCER PROPOSED FIRE HYDRANT PROPOSED SANITARY SEWER PROPOSED CATCHBASIN MANHOLE EXISTING WATERMAIN EXISTING VALVE AND VALVE BOX EXISTING VALVE CHAMBER EXISTING REDUCER EXISTING FIRE HYDRANT EXISTING COMBINED SEWER EXISTING STORM SEWER EXISTING CATCHBASIN MANHOLE EXISTING CATCHBASIN PROPOSED DEPRESSED CURB LOCATIONS PROPOSED BARRIER CURB THERMAL INSULATION ON STORM SEWER WHERE COVER IS LESS THAN 2.0m AND ON SANITARY SEWER WHERE COVER IS LESS THAN 2.5m AS PER \$35. WATER METER REMOTE WATER METER

ROAD CUT RE-INSTATEMENT AREA AS PER CITY STD R10.

LIGHT INDUSTRIAL RATE OF 35000 L/Ha APPLIED

------ SANITARY DRAINAGE AREA ID#

INFILTRATION RATE OF 0.33 L/s/Ha APPLIED

—— SANITARY DRAINAGE AREA ha.

Sanitary drainage area PROPOSED SANITARY MH AND SEWER

> EXISTING SANITARY MH AND SEWER THERMAL INSULATION ON SANITARY SEWER WHERE COVER IS LESS THAN 2.5m AS PER \$35.

EROSION CONTROL

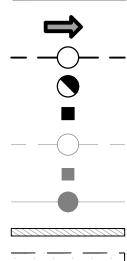
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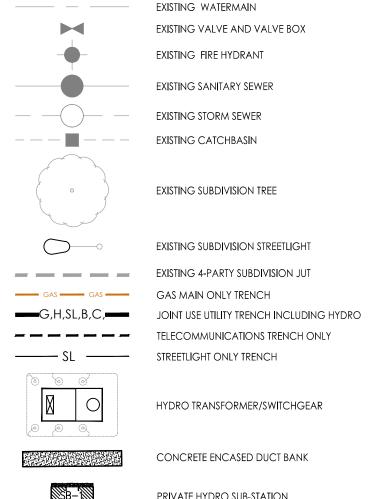
PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110 PROPOSED STRAW BALE BARRIER AS PER OPSD 219.100 PROPOSED CATCH BASIN PROTECTION AS PER TERRAFIX SILTSACK DETAIL

PROPOSED MUD MAT LOCATION

PROPOSED VALVE BOX PROPOSED VALVE CHAMBER PROPOSED FIRE HYDRANT PROPOSED SANITARY SEWER MANHOLE PROPOSED STORM SEWER MANHOLE PROPOSED CATCHBASIN

GRADING





EXISTING SUBDIVISION STREETLIGHT

hydro transformer/switchgear

CONCRETE ENCASED DUCT BANK

4 MODULE & 6 MODULE COMMUNITY MAILBOX SITE

PRIVATE HYDRO SUB-STATION

ROGERS VAULT / PEDESTAL

PROPOSED LIGHT STANDARD

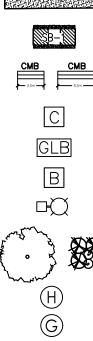
HYDRO METER LOCATION

GAS METER LOCATION

PROPOSED TREE & SHRUBS (REFER TO LANDSCAPE PLAN FOR DETAILS)

BELL GRADE LEVEL BOX

BELL PEDESTAL



GRADING	
4 99.99	ORIGINAL GROUND ELEVATION
× · 99.99	
×	PROPOSED ELEVATION PROPOSED LOT CORNER ELEVATION
$\times \frac{77.77}{98.88}$	EXISTING LOT CORNER ELEVATION
2.0%	FLOW DIRECTION AND GRADE
FFE=100.00 USF=97.00	FINISHED FIRST FLOOR ELEVATION UNDERSIDE OF FOOTING ELEVATION
E.F.	ENGINEERED FILL REQUIRED
	terracing 3:1 slope maximum (unless otherwise shown)
Ţ	DIRECTION OF OVERLAND FLOW
	PROPOSED VALVE BOX
${\color{black}\textcircled{\bullet}}$	PROPOSED VALVE CHAMBER
•	PROPOSED FIRE HYDRANT
	PROPOSED SANITARY SEWER MANHOLE
\bigcirc	PROPOSED STORM SEWER MANHOLE
	PROPOSED CATCHBASIN MANHOLE
D.C.	PROPOSED CATCHBASIN PROPOSED DEPRESSED CURB LOCATION
	PROPOSED BARRIER CURB
	PROPOSED HEAVY DUTY ASPHALT
	OVERLAND SPILL LOCATION
5555555 90000000	TWSI LOCATION AS PER CITY STD
STORM DRAINAGE	
(L101A)	— AREA ID
1.00 0.85	- RUNOFF COEFFICIENT
	— STORM DRAINAGE AREA ha.
	STORM DRAINAGE BOUNDARY
EXT-1	— AREA ID
1.00 0.50	- EXTERNAL RUNOFF COEFFICIENT
	— EXTERNAL STORM DRAINAGE AREA ha.
	EXTERNAL STORM DRAINAGE BOUNDARY
	DIRECTION OF OVERLAND FLOW
	PROPOSED STORM MH AND SEWER
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED CATCHBASIN
()	EXISTING STORM MH AND SEWER
	EXISTING CATCHBASIN
	EXISTING COMBINED MH AND SEWER THERMAL INSULATION ON STORM SEWER WHERE COVER IS LESS THAN 2.0m AS PER S35.
	MAXIMUM STATIC PONDING LIMITS
	EXISTING WATERMAIN
	EXISTING VALVE AND VALVE BOX
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING CATCHBASIN
	EXISTING SUBDIVISION TREE



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Legend

Notes

MJS DT 25.01.27 MJS DT 24.06.25 ISSUED FOR 1ST SPA SUBMISSION SUBMITTED FOR REVIEW By Appd. YY.MM.DD Revision MJS DT MJS 24.05.26 Dwn. Chkd. Dsgn. YY.MM.DD File Name: 160401916 DB.dwa Permit-Seal

Client/Project RICHCRAFT

> 2760-2770 SHEFFIELD ROAD NEW INDUSTRIAL BUILDING OTTAWA, ONTARIO

NOTES AND LEGENDS PLAN

Project No. 160401916	Scale 0 5 1:500	15 25m
Drawing No.	Sheet	Revision
NL-1	1 of 7	1