### **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
- 4. 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
- 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. REFER TO DRAWING EC/DS-1 FOR CONCEPTUAL EROSION AND SEDIMENT
- SITE PLAN PREPARED BY ALEXANDER WILSON ARCHITECT INC. DATED FEBRUARY
- 3. ORIGINAL REGISTERED SURVEY PLANS (4-R PLANS) FOR SUBDIVISION OF PART OF LOT 23 (J.G.) PREPARED BY HENRY R. FARLEY DATED JANUARY 18, 1961 AND DECEMBER 19, 1962.
- TOPOGRAPHIC SURVEY SUPPLIED BY ANNIS , O'SULLIVAN, VOLLEBEKK LTD. DATED

JOB BENCHMARK: TOP OF SPINDLE OF FIRE HYDRANT ON NORBERRY CRESCENT SOUTH OF PROPOSED SITE. ELEV=78.31

BEARINGS ARE GRID, DERIVED FROM CAN-NET 2016 REAL TIME NETWORK GPS OBSERVATIONS AND ARE REFERENCED TO SPECIFIED CONTROL POINTS 01919680005 AND 01919680105, MTM ZONE 9 ( 76°30' WEST LONGITUDE ) NAD-83 (ORIGINAL). FOR BEARING COMPARISONS, A ROTATION OF 0°33'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON PLANS P1, P2, P3 & P4.

ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.

0. REFER TO LANDSCAPE ARCHITECTURE PLAN FOR ALL LANDSCAPING FEATURES

GEOTECHNICAL INVESTIGATION PG4834-REVISION 1 PREPARED BY PATERSON GROUP, DATED APRIL 28, 2020. 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.

(ie. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS, FENCES etc.)

- 12. STREET LIGHTING TO CITY OF OTTAWA STANDARDS.
- 13. 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
- 14. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND DIRECTOR OF ENGINEERING HAS BEEN OBTAINED.
- 15. HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE TO BE NOTIFIED IF DEEPLY BURRIED ARCHEOLOGICAL REMAINS ARE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES.

### **ROADWORKS**

OF THE CONSULTANT.

- 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
- ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- 4. ROAD SUBDRAINS SHALL BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARD
- ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF

SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION

- 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
- 8. CONCRETE CURBS SHALL BE CONSTRUCTED AS PER CITY STANDARD SC1.1.
- 9. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER CITY STANDARD SC1.4.
- 10. PAVEMENT CONSTRUCTION AS PER GEOTECHNICAL INVESTIGATION PG4834-REVISION 1 PREPARED BY PATERSON GROUP, DATED DECEMBER 10,

40mm HL3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 50mm HL8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE 150mm OPSS GRANULAR A BASE 300mm OPSS GRANULAR B TYPE |

LIGHT DUTY ASPHALT
50mm HL3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 150 OPSS GRANULAR 'A' BASE

300 OPSS GRANULAR 'B' TYPE II

## WATER SUPPLY SERVICING

- 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. WATER SERVICES ARE TO BE PVC PIPE AS PER CITY OF OTTAWA STANDARD W26 (UNLESS OTHERWISE NOTED). WATER SERVICE TO BE TERMINATED 1.0m FROM THE FACE OF BUILDING UNLESS OTHERWISE NOTED. STAND POST TO BE INSTALLED AT
- . WATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W24.
- WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W17 UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL TO BE SPECIFIED BY PROJECT GEOTECHNICAL CONSULTANT.
- 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)
- CATHODIC PROTECTION TO BE SUPPLIED ON METALLIC FITTINGS AS PER CITY OF

- OTTAWA W40 AND W42.
- 7. ALL WATERMAIN BENDS, JOINTS, TEES AND PLUGS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- . WATERMAIN TO HAVE MIN. 2.4m COVER. WHERE WATERMAIN COVER IS LESS THAN 2.4m, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY STANDARD
- WATERMAINS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES IN ACCORDANCE WITH LOCAL PROVINCIAL GUIDELINES AND THE APPLICABLE BUILDING AND PLUMBING CODE. WHERE HORIZONTAL SEPARATIONS CANNOT BE ACHIEVED, APPROVAL FROM THE ENGINEER MUST BE OBTAINED AND A MINIMUM 500mm VERTICAL SEPARATION MUST BE MAINTAINED.
- 10. WATERMAIN CROSSINGS ABOVE AND BELOW SEWERS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W25 AND W25.2.
- PRESSURE REDUCING VALVES (PRV'S) IF REQUIRED, TO BE INSTALLED AS PER ONTARIO PLUMBING CODE.
- 12. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE
- 13. ALL WATERMAINS SHALL BE BACTERIALOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL CHLORINATED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS PRIOR TO DISCHARGE. ALL DISCHARGED WATER MUST BE CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MUNICIPAL AND/OR PROVINCIAL REQUIREMENTS ARE FOLLOWED

### STORM AND SANITARY SEWERS

- SEWERS 375mm DIA. OR SMALLER SHALL BE PVC SDR35. SEWERS LARGER THAN 375mm SHALL BE CONCRETE CSA A 257.2 CLASS 100D AS PER OPSD 807.010.
- ALL STORM AND SANITARY SEWER BEDDING SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS S6 AND S7, CLASS "B" BEDDING, UNLESS OTHERWISE NOTED. SUITABLE BEDDING AND COVER MATERIAL TO BE SPECIFIED BY GEOTECHNICAL
- 3. 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 \$24, \$24.1, AND \$25 WHERE APPLICABLE. CATCH BASIN MANHOLE FRAME AND COVERS PER \$19, \$28, AND \$28.1 WHERE APPLICABLE, 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
- 4. ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, TO BE INSTALLED WITH LASER AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
- 5. 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.
- 6. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES AS PER CITY STANDARD \$14. ALL SANITARY SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES AS PER CITY STANDARD \$14.2.
- 7. STORM AND SANITARY SERVICE LATERALS TO BE SDR 28 INSTALLED AT MIN. 1.0% SLOPE. SINGLE STORM SERVICES TO BE 100mmØ, SINGLE SANITARY SERVICES TO BE 135mmØ. (SERVICES TO BE CAPPED 1.0m OFF BUILDING FACE)
- CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS S1, S2, S3 c/w FRAME AND GRATE AS PER S19.1, CURB INLET FRAME AND GRATE PER S22 AND S23, 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.
- 9. STREET CATCH BASINS TO BE INSTALLED C/W SUBDRAINS 3m LONG IN FOUR ORTHOGONAL DIRECTIONS OR LONGITUDINALLY WHEN PLACED ALONG A CURB, AND AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL.
- 10. CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING S8. THE SEALS SHOULD BE AT LEAST 1.5m LONG 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 AND 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 60 M INTERVALS IN THE SERVICE TRENCHES.
- 11. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300 mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- 12. 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.
- 13. ANY SEWER ABANDONMENT TO BE CONDUCTED ACCORDING TO CITY OF OTTAWA STANDARD S11.4
- 14. SEWERS WITH LESS THAN 2.0m COVER TO BE INSULATED IN ACCORDANCE WITH CITY STANDARD W22.

- 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 0.30m
- 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.
- 4. EMBANKMENTS TO BE SLOPED AT MIN. 3:1, UNLESS OTHERWISE SPECIFIED.
- 5. ALL SWALES TO BE MIN. 0.15m DEEP WITH MIN. 3:1 SIDE SLOPES UNLESS OTHERWISE NOTED. THE MINIMUM LONGITUDINAL SLOPE TO BE 1.5% OR 1.0% WHEN PERFORATED SUBDRAIN IS INSTALLED.
- 6. ALL ROOF DRAINS TO DISCHARGE TO THE INTERNAL STORMWATER PLUMBING AND NOT BE DIRECTED TO THE BUILDING FOUNDATION DRAIN.
- 7. TOP OF GRATE (T/G) ELEVATIONS FOR ALL STREET CATCHBASINS SHOWN ON PLANS. REFER TO THE ELEVATION AT EDGE OF PAVEMENT, OR GUTTERLINE WHERE
- 8. ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT ARE TO BE DESIGNED, APPROVED, AND STAMPED BY STRUCTURAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- 9. FENCES OR RAILINGS ARE REQUIRED FOR RETAINING WALLS GREATER THAN
- 10. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.

0.60m IN HEIGHT

- 11. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO TREE CUTTING.
- 12. REFER TO DRAWING EC DS-1 FOR EROSION AND SEDIMENT CONTROL DETAILS.

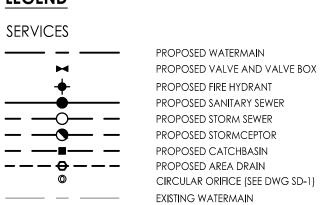
### **Best Management Practices**

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

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- 1. LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- 2. REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- 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 RECEIVE RUN-OFF FROM THE SITE.
- A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY 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 OPERATIONS, ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS. OR DOWNSTREAM WATERCOURSES.
- NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLEY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY
- 13. CONTRACTOR SHALL INSTALL MUD MATS AT ENTRANCE TO THE SITE.
- 14. STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.

# LEGEND



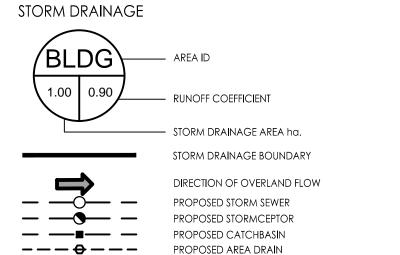
EXISTING VALVE AND VALVE BOX EXISTING FIRE HYDRANT EXISTING SANITARY SEWER EXISTING STORM SEWER ---EXISTING CATCHBASIN THERMAL INSULATION ON STORM SEWER WHERE COVER

IS LESS THAN 1.5m. THERMAL INSULATION ON WATERMAIN

WHERE COVER IS LESS THAN 2.4m AS PER W22.

PROPOSED WATER METER

PROPOSED REMOTE WATER METER

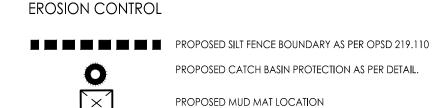


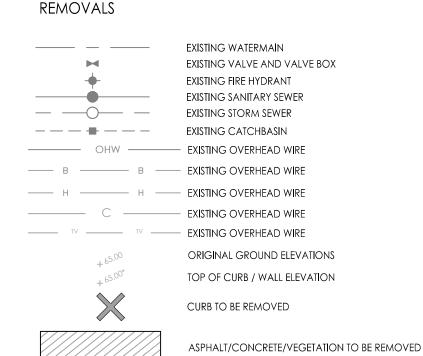
CIRCULAR ORIFICE (SEE DWG SD-1)

THERMAL INSULATION ON STORM SEWER WHERE COVER

WHERE COVER IS LESS THAN 2.4m AS PER W22.

IS LESS THAN 1.5m. THERMAL INSULATION ON WATERMAIN





SCHEDULE OF ROOF RELEASE RATES							
DRA <b>I</b> NAGE AREA ID	DRAIN TYPE	# DRAINS	100 YEAR HEAD (m)	100 YEAR RELEASE RATE (L/s)			
BLDGA	WATTS R1100 ACCUTROL (25% OPEN)	8	0.142	7.4			
BLDGB	WATTS R1100 ACCUTROL (25% OPEN)	8	0.141	7.3			
BLDGC	WATTS R1100 ACCUTROL (25% OPEN)	8	0.142	7.4			

	SCHE	DULE OF INLET	CONTROL DEV	/ICES
CATCHBASIN <b>I</b> D	TRIBUTARY AREA ID	100YR HEAD (m)	100YR RELEASE RATE (L/s)	ICD TYPE
CB 200	L102A	1.66	7.4	IPEX TEMPEST LMF 80
CB 201	L103A	1.63	18.7	83mmØ ORIFICE
CB 203	L103B	1.63	10.2	IPEX TEMPEST LMF 95
AREA DRAIN 303	L303A	1.62	18.6	83mmØ ORIFICE
AREA DRAIN 300	L300A	1.56	42.8	127mmØ ORIFICE
AREA DRAIN 301	L301A	1.56	42.8	127mmØ ORIFICE

# GRADING

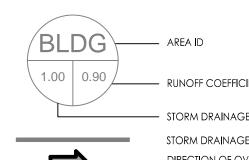
ORIGINAL GROUND ELEVATIONS EXISTING TOP OF CURB / WALL ELEVATION × 99.99 PROPOSED ELEVATION PROPOSED TOP OF CURB ELEVATION PROPOSED ELEVATION EXISTING ELEVATION 2.0% FLOW DIRECTION AND GRADE FF=99.99 FINISHED FIRST FLOOR ELEVATION TF=99 99 TOP OF FOUNDATION ELEVATION USF=99.99 UNDERSIDE OF FOOTING ELEVATION TERRACING 3:1 SLOPE MAXIMUM (UNLESS OTHERWISE SHOWN) PROPOSED SWALE DIRECTION OF OVERLAND FLOW PROPOSED VALVE BOX PROPOSED SANITARY SEWER MANHOLE PROPOSED STORM SEWER MANHOLE PROPOSED CATCHBASIN PROPOSED DEPRESSED CURB LOCATIONS EXISTING VALVE AND VALVE BOX EXISTING FIRE HYDRANT EXISTING SANITARY SEWER EXISTING STORM SEWER EXISTING CATCHBASIN PROPOSED TRANSFORMER LOCATION

PROPOSED LIGHT DUTY ASPHALT

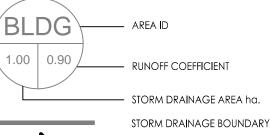
MAXIMUM 100-YR PONDING LIMITS

PROPOSED HEAVY DUTY ASPHALT

PROPOSED RETAINING WALL, RETAINING WALLS GREATER THAN 1.0m IN HEIGHT TO BE DESIGN BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. RAILINGS REQUIRED WHEN WALL IS 0.6m IN HEIGHT OR GREATER.



# EXISTING STORM DRAINAGE



EXISTING STORM SEWER

EXISTING CATCHBASIN



Stantec Consulting Ltd. 400 - 1331 Clyde Avenue Ottawa ON Tel. 613.722.4420

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Legend

APPROVED REFUSED THIS \_\_\_\_\_, 20\_\_\_\_\_ LILY XU, MCIP, RPP, MANAGER DEVELOPMENT REVIEW SOUTH PLANNING, INFRASTRUCTURE AND ECONOMIC

DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

REVISED SITE PLAN WAJ DCT 25.04.25 REVISED SITE PLAN WAJ DCT 21.09.21 REVISED SITE PLAN DCT 21.06.14 REVISED SITE PLAN DCT 20.09.16 REVISED SITE PLAN 20.08.21 LAW DCT REVISED AS PER CITY COMMENTS DCT 20.05.04 REVISED AS PER CITY COMMENTS DCT 19.12.13 ISSUED FOR REVIEW DCT 19.07.19 ISSUED FOR BUILDING PERMIT, BUILDINGS A & B WAJ DCT 19.06.27 By Appd. YY.MM.DD Revision File Name: 160401483-DB KJK WAJ 19.04.03

Dwn. Chkd. Dsgn. YY.MM.DD

Client/Project

Permit-Seal

NORBERRY PROPERTIES LIMITED 333 Wilson Ave, Suite 200. Toronto, ON

OTTAWA, ON

NOTES AND LEGEND PLAN

NORBERRY RESIDENCES

Project No. Scale 160401483 Sheet Drawing No. Revision 1 of 7