

## NOTES: GENERAL

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEOTIC AND UTILIZE METRIC UNITS.
- ALL SIDEWALK TO HAVE 2% SLOPE AWAY FROM BUILDINGS WHERE APPLICABLE.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCHBASIN OUTLETS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAWCUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
- CURBS TO BE AS PER CITY OF OTTAWA STANDARD SCT.1.
- CONTRACTOR IS TO COMPLY WITH CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING WITHIN MUNICIPAL RIGHT OF WAYS.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. (CONSTRUCTION OPSS 206, 310 & 314 MATERIALS OPSS 1001, 1003 & 1010).
- REFER TO ARCHITECT'S SITE PLAN FOR BUILDING DIMENSIONS AND SITE LAYOUT. DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- REFER TO LANDSCAPE ARCHITECTS PLAN FOR SIDEWALK, PATHWAYS, CONCRETE MEDIAN, PLANTING AND OTHER LANDSCAPE FEATURE MATERIALS AND LOCATIONS.
- ALL CURB TO BE 150mm ABOVE FINISHED ASPHALT GRADE UNLESS OTHERWISE NOTED.
- FOR DETAILS OF SOIL CONDITIONS, REFERENCE SHOULD BE MADE TO GEOTECHNICAL REPORT PREPARED BY PATERSON GROUP AUGUST 2017.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES FOR THE PROTECTION OF THE AREA'S DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATES OF CATCHBASINS AND MANHOLES AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE AGENCY.
- THE CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF EXISTING INFRASTRUCTURE TO PREVENT ANY DAMAGE AND IDENTIFY CONFLICTS WITH PROPOSED INFRASTRUCTURE PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS THAT ARE FOUND.

- DESIGN INFORMATION GIVEN ON THIS PLAN SHALL BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY exp SERVICES INC.
- REFER TO TOPOGRAPHIC PLAN PREPARED BY FAIRHALL MOFFATT & WOODLAND LTD. FOR LEGAL PROPERTY LINE DESCRIPTIONS.

## NOTES: SEWER

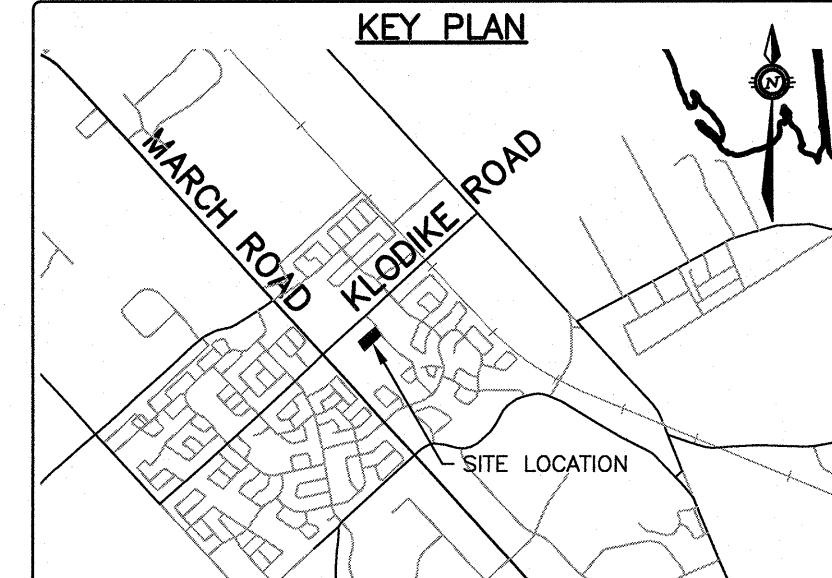
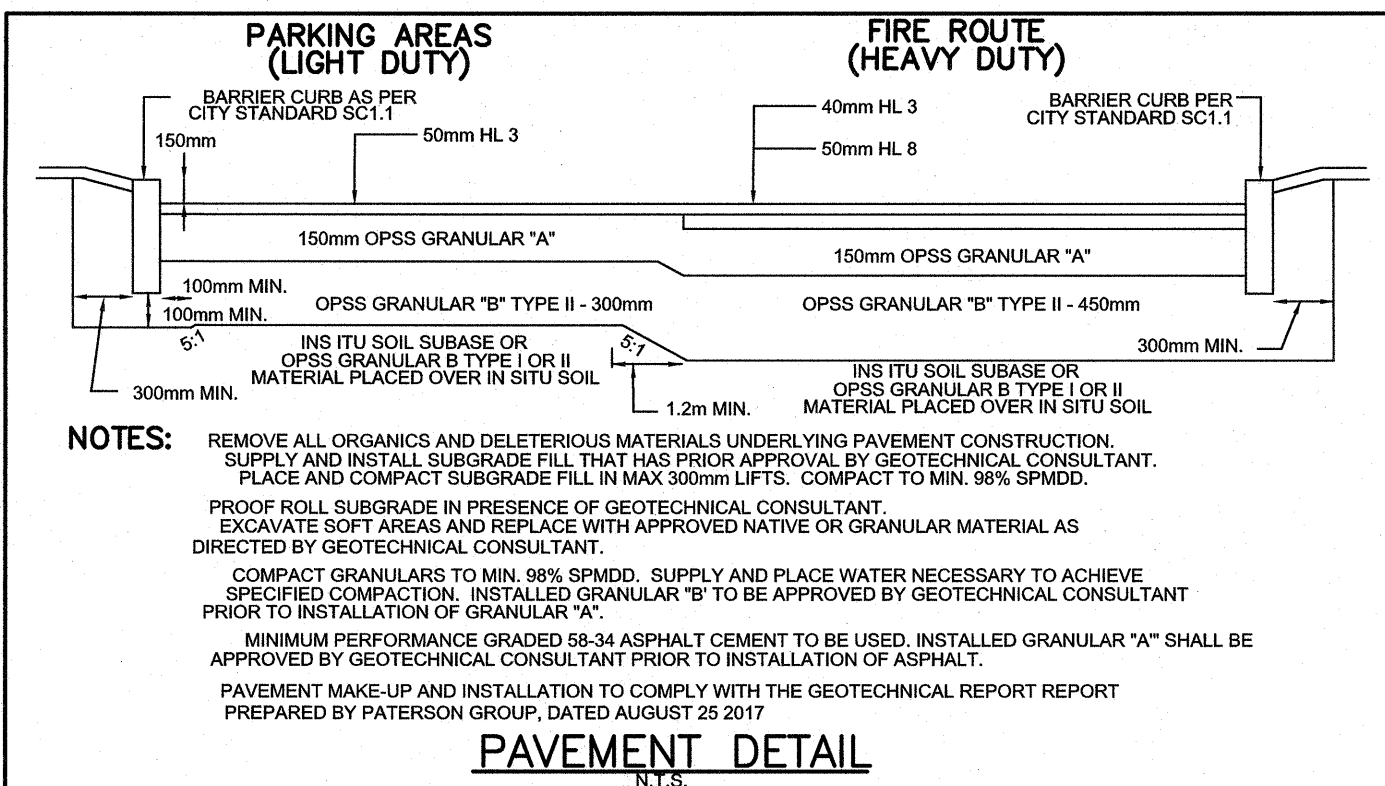
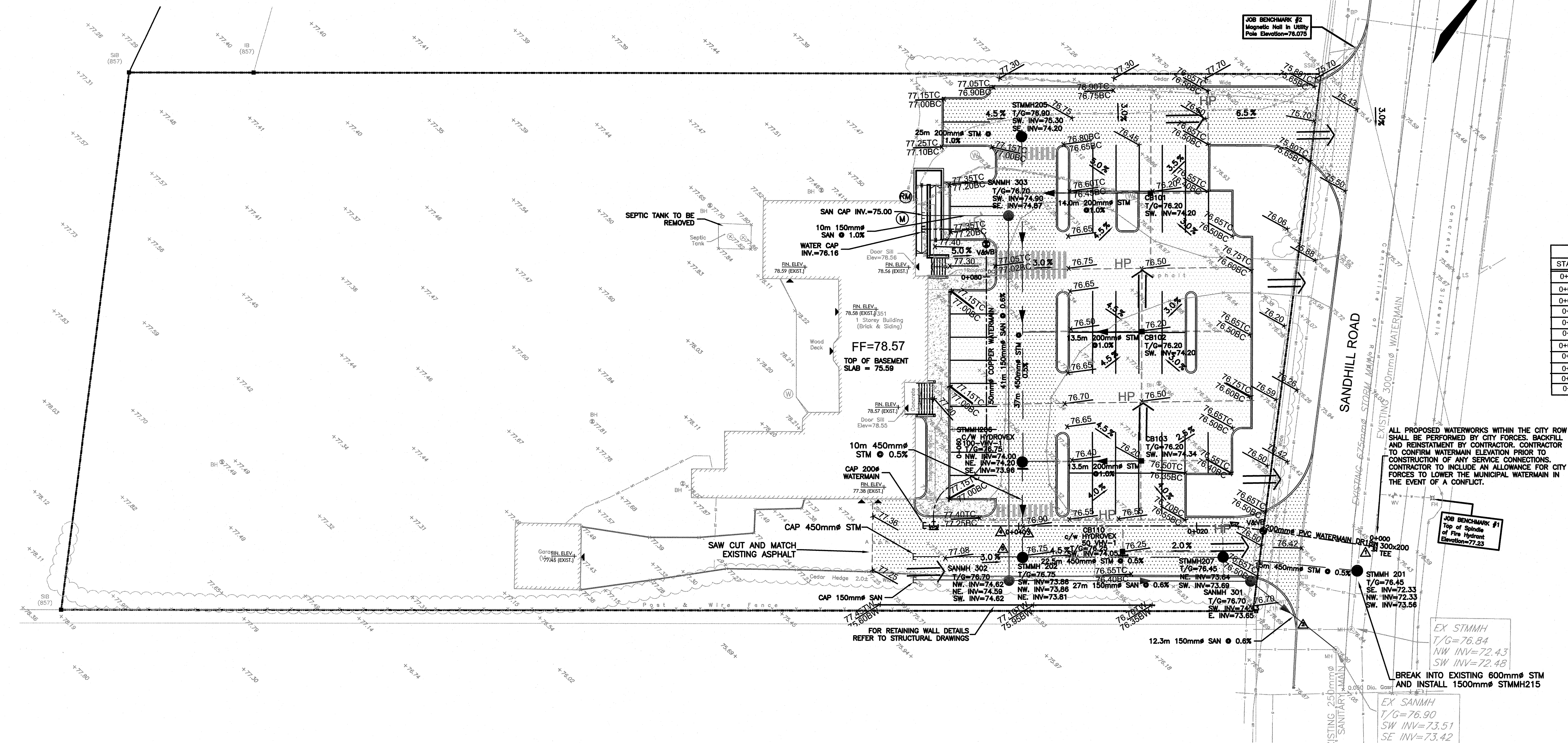
- CATCHBASINS SHALL BE PRECAST 600mm x 600mm AS PER OPSS STANDARD 705.01. FRAMES AND COVERS TO BE AS PER CITY OF OTTAWA STANDARDS.
- SEWER BEDDING AS PER OPSS STANDARD 802.03 WITH MINIMUM 150mm GRANULAR "A" BEDDING COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SPECIFICATIONS AND IN PARTICULAR WITH OPSS 407 AND 410.
- ALL SANITARY SEWERS ARE TO BE THE SIZES INDICATED AND THE MATERIAL SHALL BE PVC SDR 35.
- ALL STORM SEWER TO BE PVC SDR 35 OR REINFORCED CONCRETE IN ACCORDANCE WITH CSA STANDARDS A257.2 AND A257.3 (JOINTS).
- ALL MANHOLES, CATCHBASINS, AND CATCHBASIN MANHOLES TO BE BACKFILLED WITH MIN. 0.3m HORIZONTAL THICKNESS OF GRANULAR "A". FRAMES AND COVERS TO BE PER CITY OF OTTAWA STANDARDS.
- SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN TO WITHIN 1.0m OF BUILDING WALLS AND PROVIDE TEMPORARY CAPS.
- ADJUST ALL EXISTING AND PROPOSED MANHOLES TO FINISHED GRADE.
- ALL MANHOLES ARE 1200mm DIA. UNLESS NOTED OTHERWISE.
- FOUNDATION DRAIN BACKWATER VALVES TO BE INSTALLED ON ALL FOUNDATION DRAINS AS PER CITY STD S14.
- CONTRACTOR TO INSULATE ALL STORM SEWER LEADS, SERVICES AND MAINS WHICH HAVE A DEPTH OF COVER LESS THAN 2.0m WITH 75mm RIGID HIGH DENSITY STYROFOAM INSULATION DOW CHEMICAL HI 40 OR APPROVED EQUAL.

## NOTES: WATERMAIN

- ALL WATERMAIN WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE.
- INSTALLATION OF WATER METER AND REMOTE RECEPTACLE SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m UNLESS OTHERWISE NOTED IN THE WATERMAIN TABLE. WATERMAIN WITH LESS THAN 2.4m COVER SHALL BE CONSTRUCTED PER CITY OF OTTAWA DETAIL W-22. WATERMAIN TO BE INSULATED PER CITY OF OTTAWA DETAIL W-23 WHERE WATERMAIN IS LESS THAN 2.4m FROM ADJACENT OPEN STRUCTURES.
- WATERMAIN BEDDING IS TO BE AS PER CITY OF OTTAWA DETAIL W-17.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS PER CITY OF OTTAWA DETAILS W-40 AND W-42.
- UNLESS OTHERWISE NOTED WATER SERVICE LATERALS TO BUILDING SHALL BE PVC DR 18 AT SIZES INDICATED.
- WATERMAIN CONNECTIONS, TO THE EXISTING PRIVATE WATERMAIN SHALL BE BY CONTRACTOR, CITY TO INSPECT AND DISINFECT.
- IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS NO GREATER THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- HYDRANT LOCATION AND INSTALLATION AS PER STD DWG W18 & W19.

## CROSSING INFO:

	CROSSING #1 NW INV=73.75 STM OBV=73.05		CROSSING #2 SW INV=73.80 STM OBV=72.70		CROSSING #3 NW INV=74.85 STM OBV=74.35		CROSSING #4 SW INV=74.85 WM OBV=74.35		CROSSING #5 SW INV=74.85 STM OBV=74.31
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## LEGEND

- STANDARD IRON BAR
- IRON BAR
- CATCH BASIN
- MANHOLE
- WATER MANHOLE
- LAMP STANDARD
- UTILITY POLE
- WATER VALVE
- FIRE HYDRANT
- WELL
- GUY WIRE AND ANCHOR
- WATERMAIN
- OVERHEAD UTILITY WIRES
- UNDERGROUND HYDRO
- UNDERGROUND BELL
- GAS MAIN
- CABLE (ROGERS)
- STREET LIGHT
- STORM SEWER
- SANITARY SEWER
- CURB
- PROPOSED CURB
- PROPOSED WATERMAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED STORM CATCHBASIN MANHOLE
- PROPOSED STORM CATCHBASIN
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE & VALVE BOX
- PROPOSED SIAMESE CONNECTION
- PROPOSED WATER METER
- PROPOSED REMOTE WATER METER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- PROPOSED HEAVY DUTY PAVEMENT
- PROPOSED LIGHT DUTY PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- TERRACING 3:1 MAX
- HP — HIGH POINT
- 150mm PERFORATED SUBDRAIN

## WATERMAIN TABLE

STATION	FIN/GRADE	T/W GRADE	COMMENT
0+000	76.45	74.05	TIE INTO EXISTING WATERMAIN ON SANDHILL RD
0+012.5	76.50	74.10	VALVE AND VALVE BOX
0+015.8	76.45	74.05	THRUST BLOCK AND 11.25' BEND
0+020	76.50	74.10	TOP OF WATERMAIN
0+040	76.90	74.85	STM CROSSING (STM OBV=74.35)
0+041	77.00	74.35	SAN CROSSING (SAN INV=74.65)
0+049.5	77.30	74.90	T/S CONNECTION 50X200
0+060	76.90	74.50	TOP OF WATERMAIN
0+080	77.10	74.70	TOP OF WATERMAIN
0+080	77.10	74.70	VALVE AND VALVE BOX
0+092	78.56	76.16	WATERMAIN CAP

ALL PROPOSED WATERWORKS WITHIN THE CITY ROW SHALL BE PERFORMED BY CITY FORCES. BACKFILL AND REINSTATEMENT BY CONTRACTOR. CONTRACTOR TO CONFIRM WATERMAIN ELEVATION PRIOR TO CONSTRUCTION OF ANY SERVICE CONNECTIONS. CONTRACTOR TO INCLUDE AN ALLOWANCE FOR CITY FORCES TO LOWER THE MUNICIPAL WATERMAIN IN THE EVENT OF A CONFLICT.

JOB BENCHMARK #1  
Top of Spindle of Fire Hydrant  
Elevation=77.23

EX STMMH  
T/G=76.84  
NW INV=72.43  
SW INV=72.43

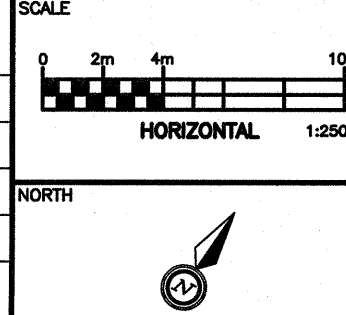
BREAK INTO EXISTING 600mm# STM AND INSTALL 1500mm# STMMH215

EX SANMH  
T/G=76.90  
SW INV=73.51  
SE INV=73.42

**CAUTION**  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

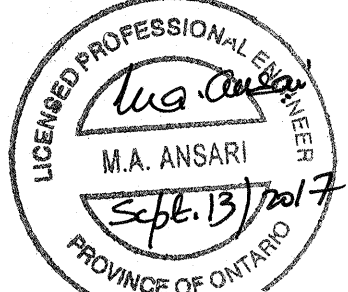
**PRELIMINARY**  
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE	BY	APPD
1	ISSUED FOR SITE PLAN APPROVAL	13/09/17	ML	AA



DESIGNED BY

REVIEWED BY



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BASEPLAN	ML
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APPROVED	AA

PROJECT  
KMA MOSQUE AND COMMUNITY CENTRE  
351 SANDHILL ROAD, OTTAWA, ON  
TITLE  
SITE SERVICING AND GRADING PLAN  
PHASE 1

PROJECT No. OTT-00238504-A0	SURVEY F M & W
DATE 2016-12-09	DRAWING No. SSGP-1