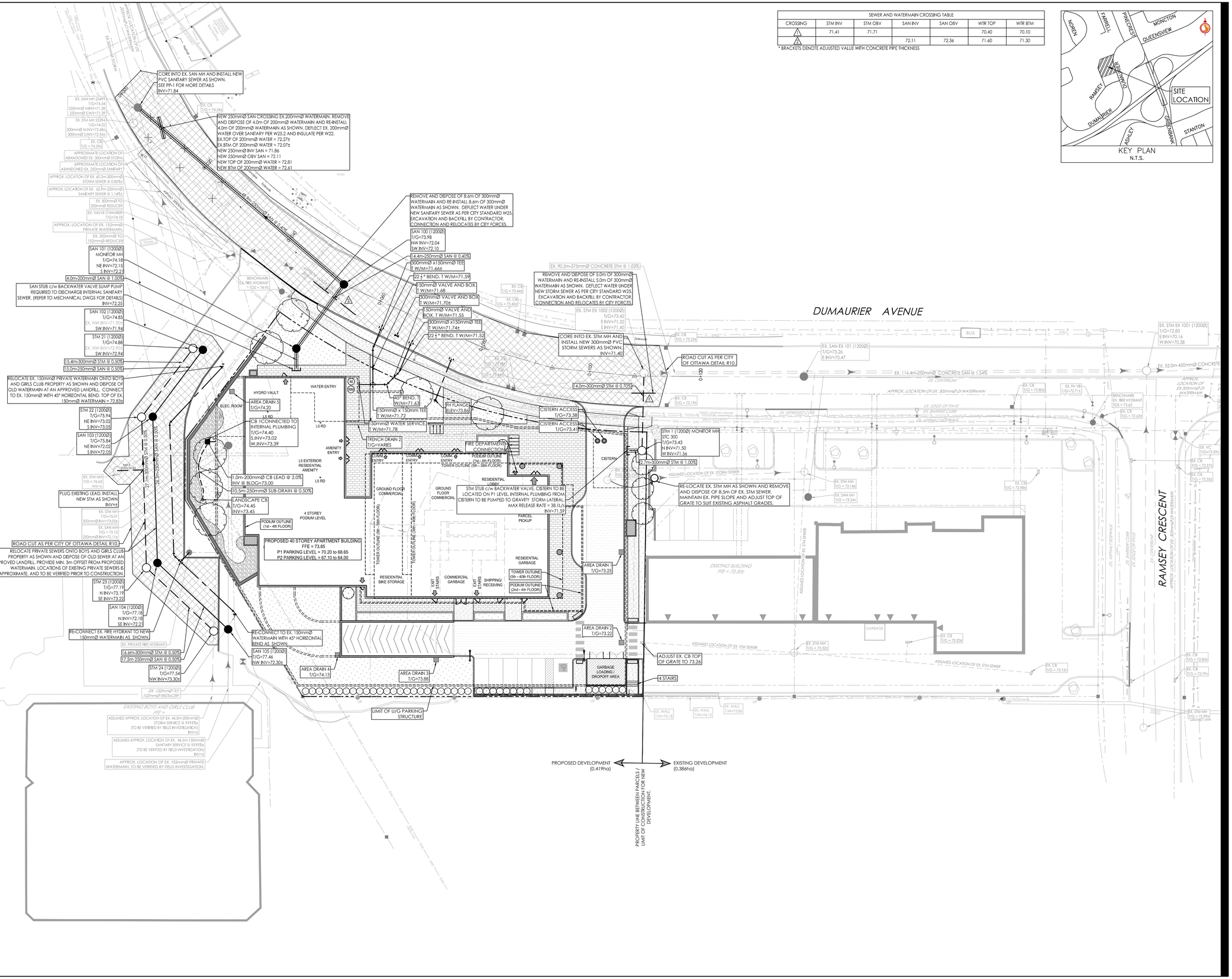
SEWER AND WATERMAIN CROSSING TABLE						
CROSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM
1	71.41	71.71			70.40	70.10
2			72.11	72.36	71.60	71.30

* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

KEY PLAN
N.T.S.


DUMAURIER AVENUE
RAMSEY CRESCENT
CORE INTO EX. SAN MH AND INSTALL NEW PVC SANITARY SEWER AS SHOWN. SEE PP-1 FOR MORE DETAILS INV=71.84
NEW 250mmØ SAN CROSSING EX.200mmØ WATERMAIN. REMOVE AND DISPOSE OF 4.0m OF 200mmØ WATERMAIN AND RE-INSTALL 4.0m OF 200mmØ WATERMAIN AS SHOWN. DEFLECT EX. 200mmØ WATER OVER SANITARY PER W25.2 AND INSULATE PER W22.
EX.TOP OF 200mmØ WATER = 72.27±
EX.BTM OF 200mmØ WATER = 72.07±
NEW 250mmØ INV SAN = 71.86
NEW 250mmØ OBV SAN = 72.11
NEW TOP OF 200mmØ WATER = 72.81
NEW BTM OF 200mmØ WATER = 72.61
REMOVE AND DISPOSE OF 8.6m OF 300mmØ WATERMAIN AND RE-INSTALL 8.6m OF 300mmØ WATERMAIN AS SHOWN. DEFLECT WATER UNDER NEW SANITARY SEWER AS PER CITY STANDARD W25. EXCAVATION AND BACKFILL BY CONTRACTOR. CONNECTION AND RELOCATES BY CITY FORCES.
REMOVE AND DISPOSE OF 5.0m OF 300mmØ WATERMAIN AND RE-INSTALL 5.0m OF 300mmØ WATERMAIN AS SHOWN. DEFLECT WATER UNDER NEW STORM SEWER AS PER CITY STANDARD W25 EXCAVATION AND BACKFILL BY CONTRACTOR CONNECTION AND RELOCATES BY CITY FORCES
CORE INTO EX. STM MH AND INSTALL NEW 300mmØ PVC STORM SEWERS AS SHOWN. INV=71.40
ROAD CUT AS PER CITY OF OTTAWA DETAIL R10.
14.0m-300mmØ STM @ 0.70%
12.7m-300mmØ STM @ 1.00%
RE-LOCATE EX. STM MH AS SHOWN AND REMOVE AND DISPOSE OF 8.5m OF EX. STM SEWER. MAINTAIN EX. PIPE SLOPE AND ADJUST TOP OF GRATE TO SUIT EXISTING ASPHALT GRADES.
ADJUST EX. CB TOP OF GRATE TO 73.26
4 STAIRS
LIMIT OF U/G PARKING STRUCTURE
SAN 100 (1200Ø) T/G=73.98 INV INV=72.04 SW INV=72.10
14.4m-250mmØ SAN @ 0.40%
500mmØ x 150mmØ TEE T.W/M=71.66±
22 ½° BEND, T W/M=71.59
150mmØ VALVE AND BOX, T W/M=71.68
300mmØ VALVE AND BOX T W/M=71.70±
150mmØ VALVE AND BOX, T W/M=71.55
300mmØ x150mmØ TEE T W/M=71.74±
22 ½° BEND, T W/M=71.52
45° BEND, T W/M=71.63
50mmØ x 150mm TEE T W/M=71.72
50mmØ WATER SERVICE T W/M=71.78
FH FLANGE ELEV=73.85
TRENCH DRAIN 2 T/G=VARIES
SAN 101 (1200Ø) MONITOR MH T/G=74.18 NE INV=72.15 S INV=72.21
4.0m-200mmØ SAN @ 1.00%
SAN STUB c/w BACKWATER VALVE SUMP PUMP) REQUIRED TO DISCHARGE INTERNAL SANITARY SEWER. (REFER TO MECHANICAL DWGS FOR DETAILS) INV=72.25
SAN 102 (1200Ø) T/G=74.85 EX. NW INV=71.90± SW INV=71.94
STM 21 (1200Ø) T/G=74.88 EX. NW INV=72.90± SW INV=72.94
15.4m-300mmØ STM @ 0.50%
15.0m-250mmØ SAN @ 0.50%
RELOCATE EX. 150mmØ PRIVATE WATERMAIN ONTO BOYS AND GIRLS CLUB PROPERTY AS SHOWN AND DISPOSE OF OLD WATERMAIN AT AN APPROVED LANDFILL. CONNECT TO EX. 150mmØ WITH 45° HORIZONTAL BEND. TOP OF EX. 150mmØ WATERMAIN = 72.83±
STM 22 (1200Ø) T/G=75.94 NE INV=73.02 S INV=73.02
SAN 103 (1200Ø) T/G=75.84 NE INV=72.02 S INV=72.09
26.3m-300mmØ SAN @ 0.50%
21.1m-300mmØ STM @ 0.50%
PLUG EXISTING LEAD. INSTALL NEW STM AS SHOWN INV=±
ROAD CUT AS PER CITY OF OTTAWA DETAIL R10.
RELOCATE PRIVATE SEWERS ONTO BOYS AND GIRLS CLUB PROPERTY AS SHOWN AND DISPOSE OF OLD SEWER AT AN APPROVED LANDFILL. PROVIDE MIN. 3m OFFSET FROM PROPOSED WATERMAIN. LOCATIONS OF EXISTING PRIVATE SEWERS IS APPROXIMATE. AND TO BE VERIFIED PRIOR TO CONSTRUCTION.
STM 23 (1200Ø) T/G=77.19 N INV=73.19 SE INV=73.22
SAN 104 (1200Ø) T/G=77.18 N INV=72.18 SE INV=72.23
RE-CONNECT EX. FIRE HYDRANT TO NEW 150mmØ WATERMAIN AS SHOWN
EX. PRIVATE FIRE HYDRANT
16.6m-300mmØ STM @ 0.50%
17.5m-250mmØ SAN @ 0.50%
STM 24 (1200Ø) T/G=77.54 NW INV=73.30±
RE-CONNECT TO EX. 150mmØ WATERMAIN WITH 45° HORIZONTAL BEND AS SHOWN
SAN 105 (1200Ø) T/G=77.46 NW INV=72.30±
AREA DRAIN 4 T/G=74.13
AREA DRAIN 3 T/G=73.88
AREA DRAIN 2 T/G=73.22
AREA DRAIN 1 T/G=73.25
CISTERN ACCESS T/G=73.38
CISTERN ACCESS T/G=73.41
CISTERN
STM 1 (1200Ø) MONITOR MH STC 300 T/G=73.43 N INV=71.50 W INV=71.56
PROPOSED 40 STOREY APARTMENT BUILDING FFE = 73.85 P1 PARKING LEVEL = 70.20 to 68.65 P2 PARKING LEVEL = 67.10 to 64.00
4 STOREY PODIUM LEVEL
PODIUM OUTLINE (1st - 4th FLOOR)
TOWER OUTLINE (5th - 39th FLOOR)
GROUND FLOOR COMMERCIAL
RESIDENTIAL BIKE STORAGE
COMMERCIAL GARBAGE
SHIPPING/ RECEIVING
RESIDENTIAL GARBAGE
PARCEL PICKUP
RESIDENTIAL LOBBY
AMENITY ENTRY
L5 EXTERIOR RESIDENTIAL AMENITY
L5 RD
HYDRO VAULT
ELEC. ROOM
WATER ENTRY
AREA DRAIN 5 T/G=74.20
CB 1CONNECTED TO INTERNAL PLUMBING T/G=74.40 S.INV=73.02 W.INV=73.39
1.0m-200mmØ CB LEAD @ 2.0% INV @ BLDG=73.00
10.5m-250mmØ SUB-DRAIN @ 0.50%
LANDSCAPE CB T/G=74.45 INV=73.45
FIRE DEPARTMENT CONNECTION
STM STUB c/w BACKWATER VALVE. CISTERN TO BE LOCATED ON P1 LEVEL INTERNAL PLUMBING FROM CISTERN TO BE PUMPED TO GRAVITY STORM LATERAL. MAX RELEASE RATE = 38.1L/s INV=71.59
EX. 90.5m-375mmØ CONCRETE STM @ 1.03%
EX. 114.4m-250mmØ CONCRETE SAN @ 1.54%
EX. 52.0m-450mmØ CONCRETE
EX. STM EX 1001 (1200Ø) T/G=72.83 E INV=70.16 W INV=70.38
EX. SAN EX 101 (1200Ø) T/G=73.26 E INV=70.47
EX. STM EX 1002 (1200Ø) T/G=73.42 E INV=71.32 S INV=71.40
EX. 46.0m-200mmØ STORM
EX. 46.5m-150mmØ SANITARY
EX. 102mmØ PRIVATE WATERMAIN
EX. 200mmØ WATERMAIN
EX. 250mmØ SANITARY
EX. 300mmØ STORM
EX. 200mmØ WATERMAIN
EX. 300mmØ WATERMAIN
EX. 150mmØ WATERMAIN
EX. 300mmØ TO 200mmØ REDUCER
EX. VALVE CHAMBER T/G=74.18
APPROX. LOCATION OF EX. 150mmØ PRIVATE WATERMAIN
EX. 300mmØ TO 150mmØ REDUCER
BENCHMARK EX. FIRE HYDRANT TOS = 74.95
EX. SAN MH 25499 T/G=74.34 250mmØ N.INV=71.38 250mmØ S.INV=71.39
EX. STM MH 25394 T/G=74.32 300mmØ N.INV=72.48± 300mmØ S.INV=72.54±
EX. CB T/G = 74.29±
APPROXIMATE LOCATION OF ABANDONED EX. 300mmØ STORM
APPROXIMATE LOCATION OF ABANDONED EX. 250mmØ SANITARY
APPROX. LOCATION OF EX. 60.2m-300mmØ STORM SEWER @ 0.85%±
APPROX. LOCATION OF EX. 62.9m-250mmØ SANITARY SEWER @ 1.14%±
EX. CB T/G = 73.44±
EX. CB T/G = 73.45±
EX. CB T/G = 73.23±
EX. CB T/G = 73.19±
EX. CB T/G = 73.45±
EX. CB T/G = 73.45±
EX. CB T/G = 73.19±
EX. CB T/G = 73.45±
EX. CB T/G = 73.45±
EX. CB T/G = 73.45