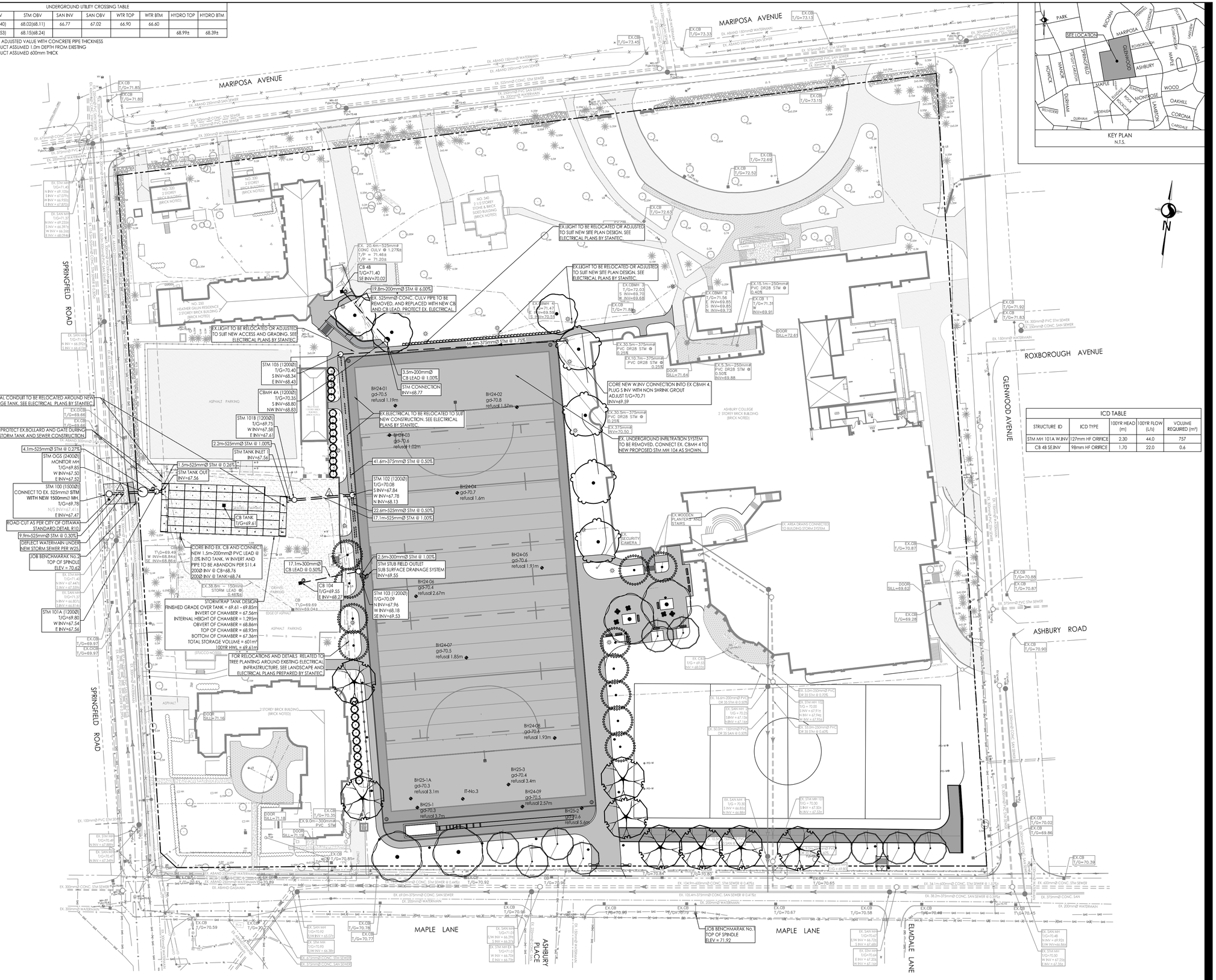
UNDERGROUND UTILITY CROSSING TABLE								
CROSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM	HYDRO TOP	HYDRO BTM
1	67.49(67.40)	68.02(68.11)	66.77	67.02	66.90	66.60		
2	67.62(67.53)	68.15(68.24)					68.99±	68.39±

1. BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS
2. EXISTING HYDRO DUCT ASSUMED 1.0m DEPTH FROM EXISTING
3. EXISTING HYDRO DUCT ASSUMED 600mm THICK


MARIPOSA AVENUE
SPRINGFIELD ROAD
ROXBOROUGH AVENUE
GLENWOOD AVENUE
ASHBURY ROAD
MAPLE LANE
ASHBURY PLACE
ELMDALE LANE
ASHBURY COLLEGE 2 STORY BRICK BUILDING (BRICK NOTED)
HEATHER GLEN RESIDENCE 2 STOREY BRICK BUILDING (BRICK NOTED)
NO. 330 2 STOREY BRICK BUILDING (BRICK NOTED)
NO. 340 2 1/2 STOREY STONE & BRICK SIDED BUILDING (BRICK NOTED)
NO. 350 2 STOREY BRICK BUILDING (BRICK NOTED)
2 STOREY BRICK BUILDING (BRICK NOTED)
EX. 20.4m–525mmØ CONC CULV @ 1.27%± T/P = 71.46± T/P = 71.20±
CB 4B T/G=71.40 SE INV=70.02
19.8m-200mmØ STM @ 6.00%
EX. 525mmØ CONC. CULV PIPE TO BE REMOVED, AND REPLACED WITH NEW CB AND CB LEAD. PROJECT EX. ELECTRICAL
EX.LIGHT TO BE RELOCATED OR ADJUSTED TO SUIT NEW ACCESS AND GRADING. SEE ELECTRICAL PLANS BY STANTEC
EX.LIGHT TO BE RELOCATED OR ADJUSTED TO SUIT NEW SITE PLAN DESIGN. SEE ELECTRICAL PLANS BY STANTEC.
66.4m-375mmØ STM @ 1.75%
3.5m-200mmØ CB LEAD @ 1.00%
STM CONNECTION INV=68.77
BH24-01 gd=70.5 refusal 1.19m
BH24-02 gd=70.8 refusal 1.57m
BH24-03 gd=70.6 refusal 1.02m
BH24-04 gd=70.7 refusal 1.6m
BH24-05 gd=70.6 refusal 1.91m
BH24-06 gd=70.4 refusal 2.67m
BH24-07 gd=70.5 refusal 1.85m
BH24-08 gd=70.6 refusal 1.93m
BH25-1A gd=70.3 refusal 3.1m
BH25-1 gd=70.3 refusal 3.7m
BH25-2 gd=70.6 refusal 5.66m
BH25-3 gd=70.4 refusal 3.4m
BH24-09 gd=70.5 refusal 2.57m
IT-No.3
EX.ELECTRICAL CONDUIT TO BE RELOCATED AROUND NEW SWM STORAGE TANK. SEE ELECTRICAL PLANS BY STANTEC
PROTECT EX.BOLLARD AND GATE DURING STORM TANK AND SEWER CONSTRUCTION
EX. ABAND 250mmØ SAN SEWER
4.1m-525mmØ STM @ 0.27%
STM OGS (2400Ø) MONITOR MH T/G=69.85 W INV=67.50 E INV=67.52
STM 100 (1500Ø) CONNECT TO EX. 525mmØ STM WITH NEW 1500mmØ MH. T/G=69.78 N/S INV=67.41 E INV=67.47
ROAD CUT AS PER CITY OF OTTAWA STANDARD DETAIL R10
9.9m-525mmØ STM @ 0.30%
REFLECT WATERMAIN UNDER NEW STORM SEWER PER W25
JOB BENCHMARK NO.2 TOP OF SPINDLE ELEV = 70.60
STM 101A (1200Ø) T/G=69.80 W INV=67.54 E INV=67.56
STM 101B (1200Ø) T/G=69.75 W INV=67.58 E INV=67.61
STM 105 (1200Ø) T/G=70.40 S INV=68.34 E INV=68.43
CBMH 4A (1200Ø) T/G=70.35 S INV=68.80 NW INV=68.83
2.2m-525mmØ STM @ 1.00%
STM TANK INLET INV=67.56
1.5m-525mmØ STM @ 0.26%
STM TANK OUT INV=67.56
CB TANK T/G=69.61
CORE INTO EX. CB AND CONNECT NEW 1.5m-200mmØ PVC LEAD @ 1.0% INTO TANK. W INVERT AND PIPE TO BE ABANDON PER S11.4 200Ø INV @ CB=68.76 200Ø INV @ TANK=68.74
STORMTRAP TANK DESIGN FINISHED GRADE OVER TANK = 69.61 - 69.85m INVERT OF CHAMBER = 67.56m INTERNAL HEIGHT OF CHAMBER = 1.295m OBVERT OF CHAMBER = 68.86m TOP OF CHAMBER = 68.93m BOTTOM OF CHAMBER = 67.36m TOTAL STORAGE VOLUME = 601m³ 100YR HWL = 69.61m
FOR RELOCATIONS AND DETAILS RELATED TO TREE PLANTING AROUND EXISTING ELECTRICAL INFRASTRUCTURE, SEE LANDSCAPE AND ELECTRICAL PLANS PREPARED BY STANTEC
41.6m-375mmØ STM @ 0.50%
STM 102 (1200Ø) T/G=70.08 S INV=67.84 W INV=67.78 N INV=68.13
22.6m-525mmØ STM @ 0.50%
17.1m-525mmØ STM @ 1.00%
17.1m-300mmØ CB LEAD @ 0.50%
CB 104 T/G=69.55 E INV=68.27
2.5m-300mmØ STM @ 1.00%
STM STUB FIELD OUTLET SUB SURFACE DRAINAGE SYSTEM INV=69.55
STM 103 (1200Ø) T/G=70.09 N INV=67.96 W INV=68.18 SE INV=69.53
CB T/G=69.69 INV=69.04±
EX. 38.8m – 150mmØ STORM LEAD @ 0.463%±
EX. 30.5m–375mmØ PVC DR28 STM @ 0.25%
EX.10.7m–375mmØ PVC DR28 STM @ 0.25%
EX.5.3m–250mmØ PVC DR28 STM @ 0.50%
EX.15.1m–250mmØ PVC DR28 STM @ 0.40%
EX.CBMH 3 T/G=72.03 S INV=69.70 W INV=69.68
EX.CBMH 4 T/G=71.43 E INV=69.59 S INV=70.53
EX.CBMH 2 T/G=71.56 E INV=69.85 S INV=69.85 N INV=69.73
EX.CB 1 T/G=71.31 W INV=69.91
DOOR SILL=72.61
DOOR SILL=71.64
CORE NEW W INV CONNECTION INTO EX CBMH 4, PLUG S INV WITH NON SHRINK GROUT ADJUST T/G=70.71 INV=69.59
EX. UNDERGROUND INFILTRATION SYSTEM TO BE REMOVED. CONNECT EX. CBMH 4 TO NEW PROPOSED STM MH 104 AS SHOWN.
EX. WOODEN PLANTERS AND STAIRS
EX. SECURITY CAMERA
EX. AREA DRAINS CONNECTED TO BUILDING STORM SYSTEM
EX. 375mmØ PVC STM SEWER
EX. 300mmØ PVC STM SEWER
EX. 200mmØ PVC SAN SEWER
EX. 200mmØ WATERMAIN
EX. 150mmØ WATERMAIN
EX. 300mmØ CONC. SAN SEWER
EX. 300mmØ CONC. STM SEWER
EX. ABAND 150mmØ WATERMAIN
EX. ABAND 200mmØ SAN SEWER
EX. 525mmØ CONC. STM SEWER
EX. 200mmØ PVC STM SEWER
EX. 200mmØ WATERMAIN
EX. 375mmØ PVC STM SEWER
EX. 200mmØ PVC SAN SEWER
EX. 200mmØ WATERMAIN
EX. 375mmØ PVC STM SEWER
EX. 300mmØ PVC STM SEWER
EX. 300mmØ CONC. SAN SEWER
EX. 150mmØ WATERMAIN
EX. 100mmØ PVC STM SEWER
EX. ABAND 200mmØ WATERMAIN
EX. ABAND 200mmØ SAN SEWER
EX. ABAND GASMAIN
EX. 300mmØ WATERMAIN
EX. 69.0m-375mmØ CONC. SAN SEWER @ 0.44%±
EX. 104.9m-600mmØ CONC. STM SEWER @ 0.40%±
EX. 106.4m-375mmØ CONC. SAN SEWER @ 0.41%±
EX. 34.1m-600mmØ CONC. STM SEWER @ 1.10%±
EX. 38.0m-375mmØ CONC. SAN SEWER @ 0.39%±
EX. 200mmØ WATERMAIN
EX. 300mmØ CONC. STM SEWER
EX. 675mmØ CONC. STM SEWER
EX. 375mmØ CONC. SAN SEWER
EX. 600mmØ CONC. STM SEWER
EX. 375mmØ CONC. SAN
JOB BENCHMARK No. TOP OF SPINDLE ELEV = 71.92
EX.CB T/G=71.85
EX.CB T/G=71.80
EX.CB T/G=73.45
EX.CB T/G=73.33
EX.CB T/G=73.13
EX.CB T/G=73.15
EX.CB T/G=72.69
EX.CB T/G=72.52
EX.CB T/G=72.63
EX.CB T/G=71.92
EX.CB T/G=71.83
EX.CB T/G=70.87
EX.CB T/G=70.88
EX.CB T/G=70.87
EX.CB T/G=69.28
EX.CB T/G=70.90
EX.CB T/G=70.02
EX.CB T/G=69.86
EX.CB T/G=70.39
EX.CB T/G=69.97
EX.CB T/G=69.97
EX.CB T/G=70.85
EX.CB T/G=70.84
EX.CB T/G=70.80
EX.CB T/G=70.65
EX.CB T/G=70.59
EX.CB T/G=70.78
EX.CB T/G=70.77
EX.CB T/G=70.36
EX.CB T/G=70.67
EX.CB T/G=70.58
EX.CB T/G=70.48
EX.CB T/G=70.45
EX.CB T/G=70.92
EX.CB T/G=70.99
EX. SAN MH T/G=71.85 N INV = 69.105± S INV = 67.079± W INV = 66.930± E INV = 67.805±
EX. SAN MH T/G=71.37 N INV = 69.205± S INV = 66.397± W INV = 66.306± E INV = 68.054±
EX. SAN MH T/G=71.06 N INV = 66.592± E INV = 66.612±
EX. STM MH T/G=71.45 N INV = 67.447± S INV = 67.559±
EX. STM MH T/G=71.40 N INV = 67.440± S INV = 67.552±
EX. SAN MH T/G=71.30 N INV = 66.807± S INV = 66.814±
EX. STM MH T/G=71.40 N INV = 67.388± E INV = 67.394±
EX. SAN MH T/G=71.40 N INV = 67.340± E INV = 67.346±
EX. SAN MH T/G=70.92 S/W INV = 65.079±
EX. STM MH T/G=70.93 S/W INV = 66.38±
EX. SAN MH T/G=71.01 W INV = 66.70± E INV = 66.73±
EX. STM MH T/G=71.01 W INV = 66.70± E INV = 66.73±
EX. SAN MH T/G=70.61 S INV = 66.37±
EX. STM MH T/G=70.61 S/W INV = 66.62±
EX. SAN MH T/G=70.40 S/W INV = 66.92±
EX. STM MH T/G=70.40 W INV = 67.02± E INV = 67.28±
EX. SAN MH T/G=70.40 W INV = 67.02± E INV = 67.28±
EX. STM MH T/G=70.40 W INV = 67.02± E INV = 67.28±
EX. SAN MH T/G=70.30 S INV = 66.85± N INV = 66.88±
EX. STM MH T/G=70.30 S INV = 67.50± N INV = 67.53±
EX. SAN MH T/G=70.30 S INV = 66.85± N INV = 66.88±
EX. STM MH T/G=70.30 W INV = 67.25± E INV = 67.39±
EX. STM MH T/G=70.30 W INV = 67.25± E INV = 67.39±
EX. SAN MH T/G=70.40 W INV = 67.05± E INV = 67.19±
EX. STM MH T/G=70.40 W INV = 67.05± E INV = 67.19