

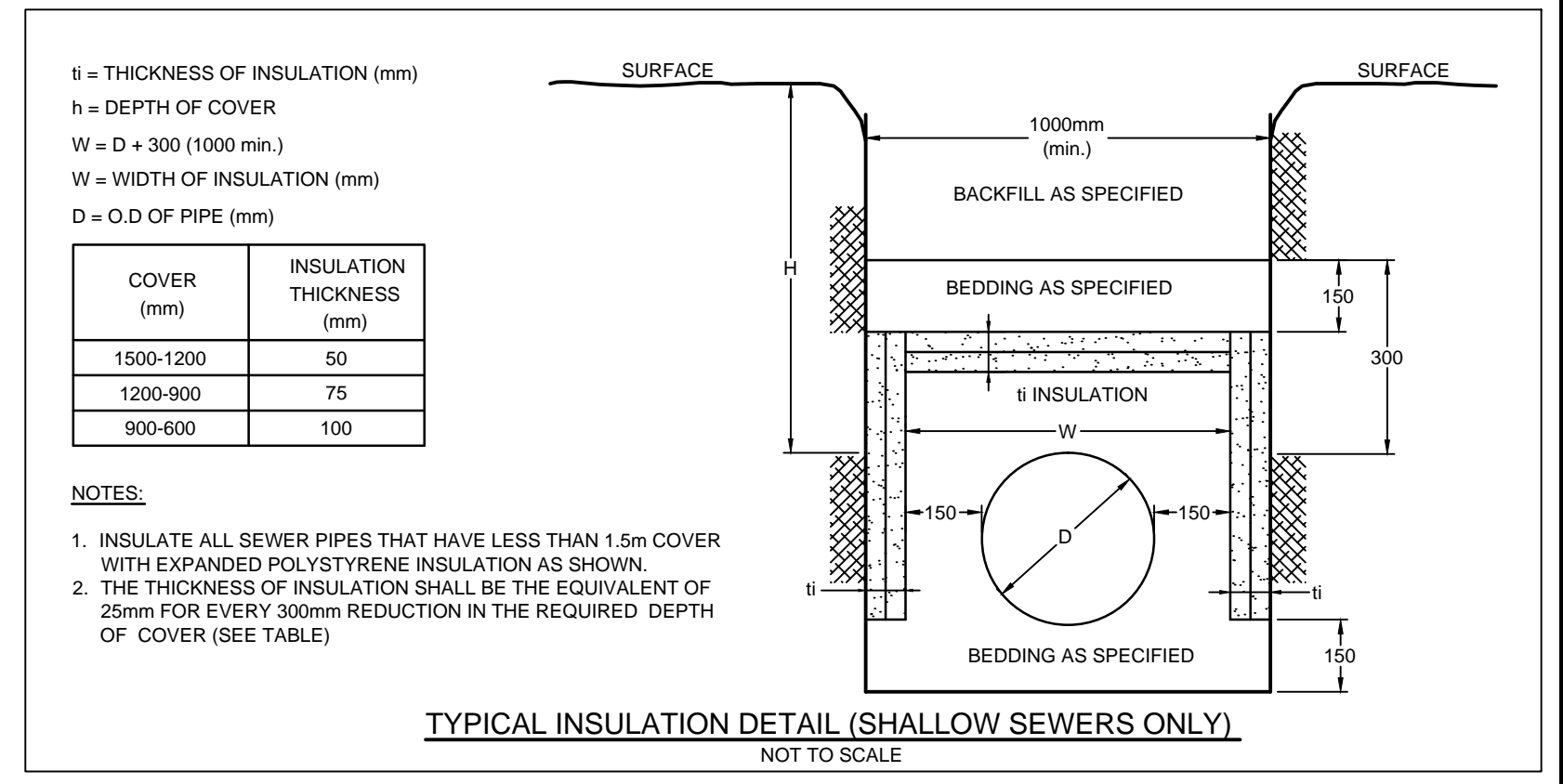
**LEGEND**

PROPOSED BARRIER CURB	PROPERTY LINE
DC	EXISTING TREES / VEGETATION
PROPOSED DEPRESSED CURB	EXISTING CURB
CBM1	EXISTING UTILITY POLE CW GUY WIRES
PROPOSED CATCHBASIN MANHOLE & SEWER	EXISTING FENCE
STM MH 2	EXISTING WATERMAIN
PROPOSED STORM MANHOLE & SEWER	EXISTING VALVE & VALVE CHAMBER
CB 1	EXISTING HYDRANT CW VALVE & LEAD
PROPOSED CATCHBASIN c/w 3.0m RADIAL SUBDRAIN	EXISTING SANITARY MANHOLE & SEWER
ICD	EXISTING STORM MANHOLE & SEWER
PROPOSED INLET CONTROL DEVICE	EXISTING CATCHBASIN CW CATCHBASIN LEAD
RD	EXISTING LIGHT STANDARD
PROPOSED ROOF DRAIN	
PROPOSED SEWER INSULATION	
X X	
REMOVE OR ABANDON EXISTING INFRASTRUCTURE	
FFE=79.80	
PROPOSED FINISHED FLOOR ELEVATION	
PROPOSED BUILDING ENTRANCE	

- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
  - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
  - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
  - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
  - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
  - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
  - ALL ELEVATIONS ARE GEODETIC.
  - REFER TO GEOTECHNICAL REPORT (No. PG3273-1, DATED JULY 3, 2014), PREPARED BY PATERSON GROUP FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
  - REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
  - REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2014-097) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
  - SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

- SEWER NOTES:**
- SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
  - SPECIFICATIONS:
 

ITEM	SPEC. No.	REFERENCE
STORM/CATCHBASIN MANHOLE (1200Ø)	701.010	OPSD
STORM/CATCHBASIN FRAME AND COVER	401.010	OPSD
WATERTIGHT MANHOLE FRAME AND COVER	401.030	OPSD
CATCHBASIN (600x600)	705.010	OPSD
CATCHBASIN FRAME AND COVER	400.020	OPSD
STORM SEWER	PVC DR 35	OPSD
SEWER TRENCH	56	CITY OF OTTAWA
  - PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
  - FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
  - ALL STORM MANHOLES, CATCHBASIN MANHOLES AND CATCHBASINS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
  - CONTRACTOR TO TELEPHONE (CCTV) ALL PROPOSED SEWERS, 250mm Ø OR GREATER TO ENSURE THAT THEY ARE CLEAN AND OPERATIONAL. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES. OBTAIN APPROVAL FROM THE CITY'S SEWER OPERATIONS.
  - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES, ETC.



**INLET CONTROL DEVICE DATA - EX. CB 5**

DESIGN EVENT	PLUG TYPE	DIAMETER OF OUTLET PIPE	DESIGN FLOW	DESIGN HEAD	DESIGN ELEVATION	WATER ELEVATION
1.5 YR TEMPEST VORTEX	200mm Ø	11.3 L/s	2.01m	90.04m	90.10m	
1:100 YR TEMPEST VORTEX	200mm Ø	11.6 L/s	2.07m	90.10m	90.10m	

**INLET CONTROL DEVICE DATA - EX. CBM1 4**

DESIGN EVENT	IP EX LMF TYPE ICD	DIAMETER OF OUTLET PIPE	DESIGN FLOW	DESIGN HEAD	DESIGN ELEVATION	WATER ELEVATION
1.5 YR TEMPEST VORTEX	300mm Ø	11.1 L/s	1.92m	89.79m	89.79m	
1:100 YR TEMPEST VORTEX	300mm Ø	11.2 L/s	1.99m	89.86m	89.86m	

**INLET CONTROL DEVICE DATA - CB 1**

DESIGN EVENT	IP EX LMF TYPE ICD	DIAMETER OF OUTLET PIPE	DESIGN FLOW	DESIGN HEAD	DESIGN ELEVATION	WATER ELEVATION
1.5 YR TEMPEST VORTEX	200mm Ø	11.9 L/s	1.47m	89.62m	89.62m	
1:100 YR TEMPEST VORTEX	200mm Ø	12.3 L/s	1.55m	89.71m	89.71m	

**ROOF DRAIN TABLE - AREA R-1 (ROOF DRAINS 1, 2 & 3)**

AREA ID	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5 YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100 YR PONDING DEPTH
R-1	RD 1 (RD-100-A-ADJ)	1/2 EXPOSED	0.95 L/s	8 cm	1.14 L/s	10 cm
R-1	RD 2 (RD-100-A-ADJ)	CLOSED	0.76 L/s	7 cm	0.76 L/s	10 cm
R-1	RD 3 (RD-100-A-ADJ)	FULLY EXPOSED	0.95 L/s	8 cm	1.52 L/s	10 cm

**ROOF DRAIN TABLE - AREA R-2 (ROOF DRAINS 4 & 5)**

AREA ID	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5 YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100 YR PONDING DEPTH
R-2	RD 4 (RD-100-A-ADJ)	CLOSED	0.76 L/s	7 cm	0.76 L/s	10 cm
R-2	RD 5 (RD-100-A-ADJ)	CLOSED	0.76 L/s	7 cm	0.76 L/s	10 cm

**ROOF DRAIN TABLE - AREA R-1 (ROOF DRAIN 6)**

AREA ID	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5 YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100 YR PONDING DEPTH
R-3	RD 6 (RD-100-A-ADJ)	CLOSED	0.76 L/s	7 cm	0.76 L/s	10 cm

**SITE FLOWS & STORMWATER MANAGEMENT TABLE**

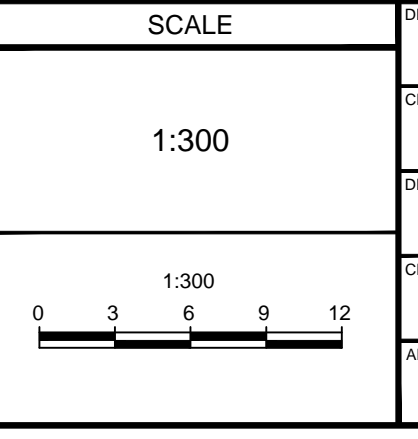
DESIGN EVENT	ALLOWABLE FLOW										TOTAL
	A-1	A-2	A-3	A-4	A-5	R-1	R-2	R-3	R-4	TOTAL	
1.5 YR	60.9 L/s	11.3 L/s	11.1 L/s	11.9 L/s	0.4 L/s	0.7 L/s	2.7 L/s	1.5 L/s	0.8 L/s	9.3 L/s	49.6 L/s
1:100 YR	60.9 L/s	11.6 L/s	11.2 L/s	12.3 L/s	0.8 L/s	1.3 L/s	3.4 L/s	1.5 L/s	0.8 L/s	17.7 L/s	60.7 L/s

**NOTE:**  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER 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.

**OWNER INFORMATION**  
ZLEPNIG HOLDINGS LIMITED  
SOUTHWAY HOTEL & CONFERENCE CENTRE  
2431 BANK STREET  
OTTAWA, ONTARIO, K1V 8R9

**STEPHEN ZLEPNIG**  
PHONE: (613) 737-0811  
E-MAIL: steve@southway.com

No.	REVISION	DATE	BY
4	ISSUED FOR BUILDING PERMIT	DEC 23/14	MS
3	REVISED PER CITY COMMENTS	DEC 12/14	MS
2	ISSUED FOR SITE PLAN APPROVAL	JULY 16/14	MS
1	ISSUED FOR COORDINATION	JUN 18/14	MS



**FOR REVIEW ONLY**

DESIGN	MS
CHECKED	SM / MS
DRAWN	IA / SM
CHECKED	SM / MS
APPROVED	MS

**John Smit, MCIP RPP, Manager, Development Review, Urban Services**

**NOVATECH ENGINEERING CONSULTANTS LTD.**  
ENGINEERS & PLANNERS  
M. SAVIC  
100102651  
Dec 23/14  
PROVINCE OF ONTARIO

Telephone: (613) 254-9643  
Facsimile: (613) 254-5867  
Email: novaito@novatech-eng.com

**LOCATION**  
SOUTHWAY INN: RETRO-FIT RETIREMENT HOME  
2431 BANK STREET, CITY OF OTTAWA

**DRAWING NAME**  
GENERAL PLAN OF SERVICES

**PROJECT No.**  
114039

**REV #**  
REV #4

**DRAWING No.**  
114039-GP

NOVATECH ENGINEERING CONSULTANTS LTD. 114039-GP Rev. Dec 23, 2014 - 1:30pm, amh/whs

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