

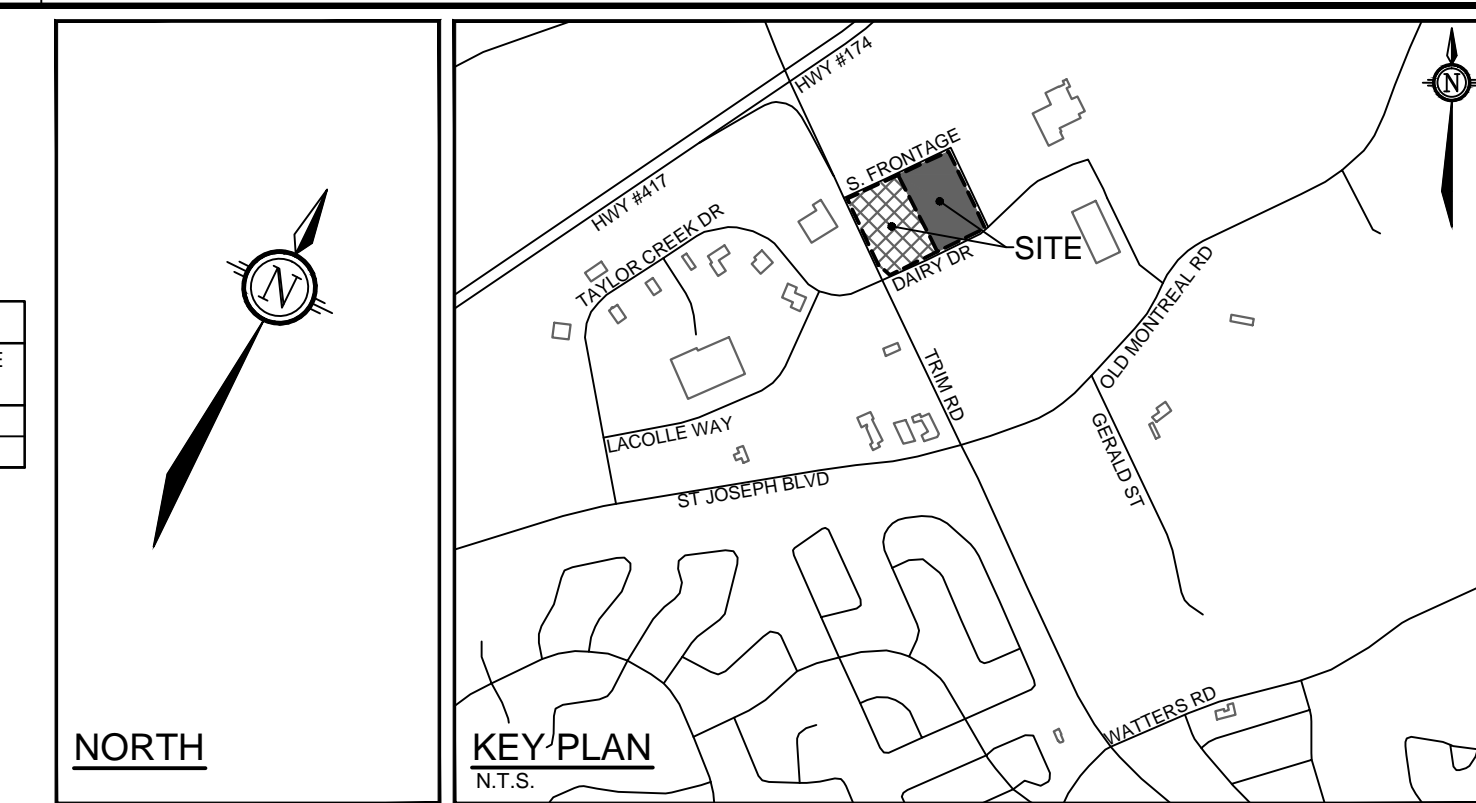
AREA B3 - INLET CONTROL DEVICE DATA - CBMH 13						
DESIGN EVENT	IPEX TEMPEST ICD	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	UPSTREAM HEAD (m)	SURFACE PONDING (m)	VOLUME (m ³)
1.5 YR LOW, MEDIUM FLOW (LMF)		300	7.9	1.80	0.10	3.7
1:100 YR LOW, MEDIUM FLOW (LMF)		300	7.7	1.90	0.20	26.7

AREA A8 - INLET CONTROL DEVICE DATA - CBMH 7						
DESIGN EVENT	IPEX TEMPEST ICD	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	UPSTREAM HEAD (m)	SURFACE PONDING (m)	VOLUME (m ³)
1.5 YR LOW, MEDIUM FLOW (LMF)		300	2.8	0.38	0.11	11.5
1:100 YR LOW, MEDIUM FLOW (LMF)		300	4.0	0.53	0.26	26.1

AREA B4 - INLET CONTROL DEVICE DATA - CBMH 11						
DESIGN EVENT	IPEX TEMPEST ICD	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	UPSTREAM HEAD (m)	SURFACE PONDING (m)	VOLUME (m ³)
1.5 YR LOW, MEDIUM FLOW (LMF)		300	4.0	1.03	---	40.0
1:100 YR LOW, MEDIUM FLOW (LMF)		300	6.0	2.65	0.17	81.9

AREA A9 - INLET CONTROL DEVICE DATA - CBMH 2						
DESIGN EVENT	IPEX TEMPEST ICD	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	UPSTREAM HEAD (m)	SURFACE PONDING (m)	VOLUME (m ³)
1.5 YR LOW, MEDIUM FLOW (LMF)		300	5.8	2.75	0.05	116.1
1:100 YR LOW, MEDIUM FLOW (LMF)		300	6.0	2.82	0.12	260.2

AREA B5 - INLET CONTROL DEVICE DATA - ACCESS MH 1						
DESIGN EVENT	IPEX TEMPEST ICD	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	UPSTREAM HEAD (m)	SURFACE PONDING (m)	VOLUME (m ³)
1.5 YR LOW, MEDIUM FLOW (LMF)		300	5.2	1.15	---	233.1
1:100 YR LOW, MEDIUM FLOW (LMF)		300	6.9	2.27	0.20	483.0



LEGEND

- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- VALVE & VALVE BOX
- PROPOSED STORM MANHOLE & SEWER
- DIRECTION OF FLOW
- PROPOSED CATCHBASIN CW CATCHBASIN LEAD
- PROPOSED CATCHBASIN MH
- PROPOSED CATCHBASIN
- PROPOSED LANDSCAPE DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED BUILDING ENTRANCE
- AREA I.D.
- DRAINAGE AREA (hectares)
- RUN-OFF COEFFICIENT
- STORM DRAINAGE AREA

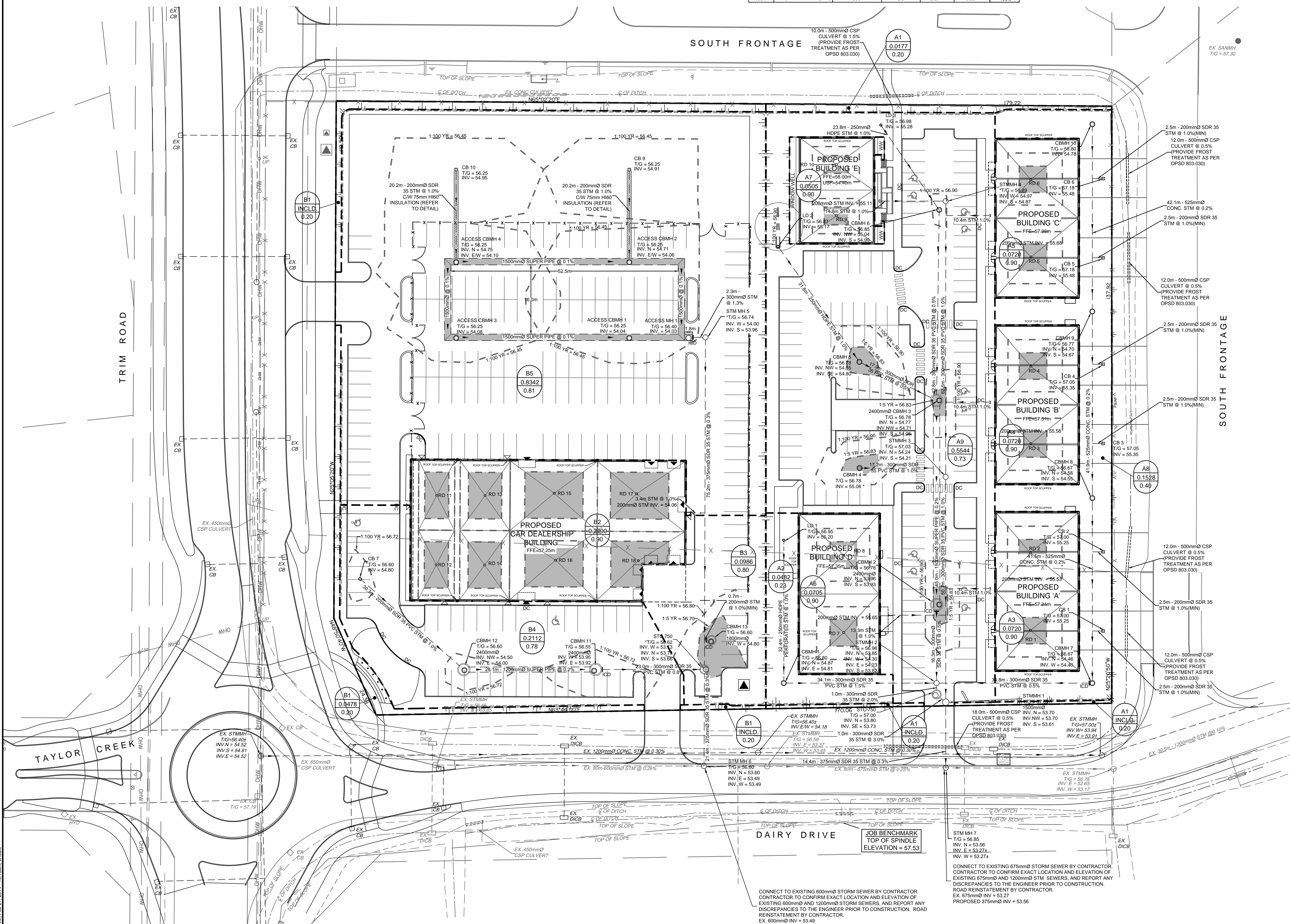
GENERAL NOTES:

- 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 THE CITY OF OTTAWA AND ENGINEER.
- 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 ELEVATIONS ARE GEODETIC.
- REFER TO GEOTECHNICAL INVESTIGATION (No. PG245-LET.02, DATED MAY 16, 2013) PREPARED BY PATERSON GROUP CONSULTING ENGINEERS 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 THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT R-2013-105 PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.

SEWER NOTES:

- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
STORM (1200)	701.010	OPSD
STORM MH FRAME & COVER	401.010	OPSD
SEWER TRENCH	56 & 57	CITY OF OTTAWA
STORM SEWER	PVC Dk 36	HDFE PERFORATED PIPE
SUBDRAIN	HDFE PERFORATED PIPE	
- 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.
- STORM MANHOLES ARE TO HAVE 300mm SLUMPS UNLESS OTHERWISE INDICATED.



ROOF DRAIN TABLE - RD 1 - 10						
ROOF DRAIN No.	ROOF DRAINS OPENING	RELEASE RATE	APPROX. 1.5 YR PONDING DEPTH	APPROX. 1.5 YR RELEASE RATE	APPROX. 100 YR PONDING DEPTH	APPROX. 100 YR RELEASE RATE
RD 1	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 2	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 3	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 4	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 5	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 6	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 7	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 8	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 9	CLOSED	0.76 L/s	0.10 m	0.76 L/s	0.15 m	0.76 L/s
RD 10	CLOSED	0.76 L/s	0.10 m	0.76 L/s	0.15 m	0.76 L/s

ROOF DRAIN TABLE - RD 11 - 18						
ROOF DRAIN No.	ROOF DRAINS OPENING	RELEASE RATE	APPROX. 1.5 YR PONDING DEPTH	APPROX. 1.5 YR RELEASE RATE	APPROX. 100 YR PONDING DEPTH	APPROX. 100 YR RELEASE RATE
RD 11	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 12	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 13	CLOSED	0.76 L/s	0.11 m	0.76 L/s	0.14 m	0.76 L/s
RD 14	CLOSED	0.76 L/s	0.11 m	0.76 L/s	0.14 m	0.76 L/s
RD 15	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.14 m	1.14 L/s
RD 16	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.14 m	1.14 L/s
RD 17	1/4 EXPOSED	0.95 L/s	0.11 m	1.14 L/s	0.15 m	1.14 L/s
RD 18	CLOSED	0.76 L/s	0.11 m	0.76 L/s	0.15 m	0.76 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.

No.	REVISION	DATE	BY
1	ISSUED WITH STORMWATER MANAGEMENT REPORT	NOV 5/13	MS
2	ISSUED WITH REVISED SWM REPORT	FEB 7/14	MS

SCALE
1:400

FOR REVIEW ONLY

CHECKED: CJO
 DRAWN: MS
 APPROVED: CJO

NOVATECH ENGINEERING CONSULTANTS LTD.
 113071-SWM
 113071-00
 REV # 2
 113071-SWM