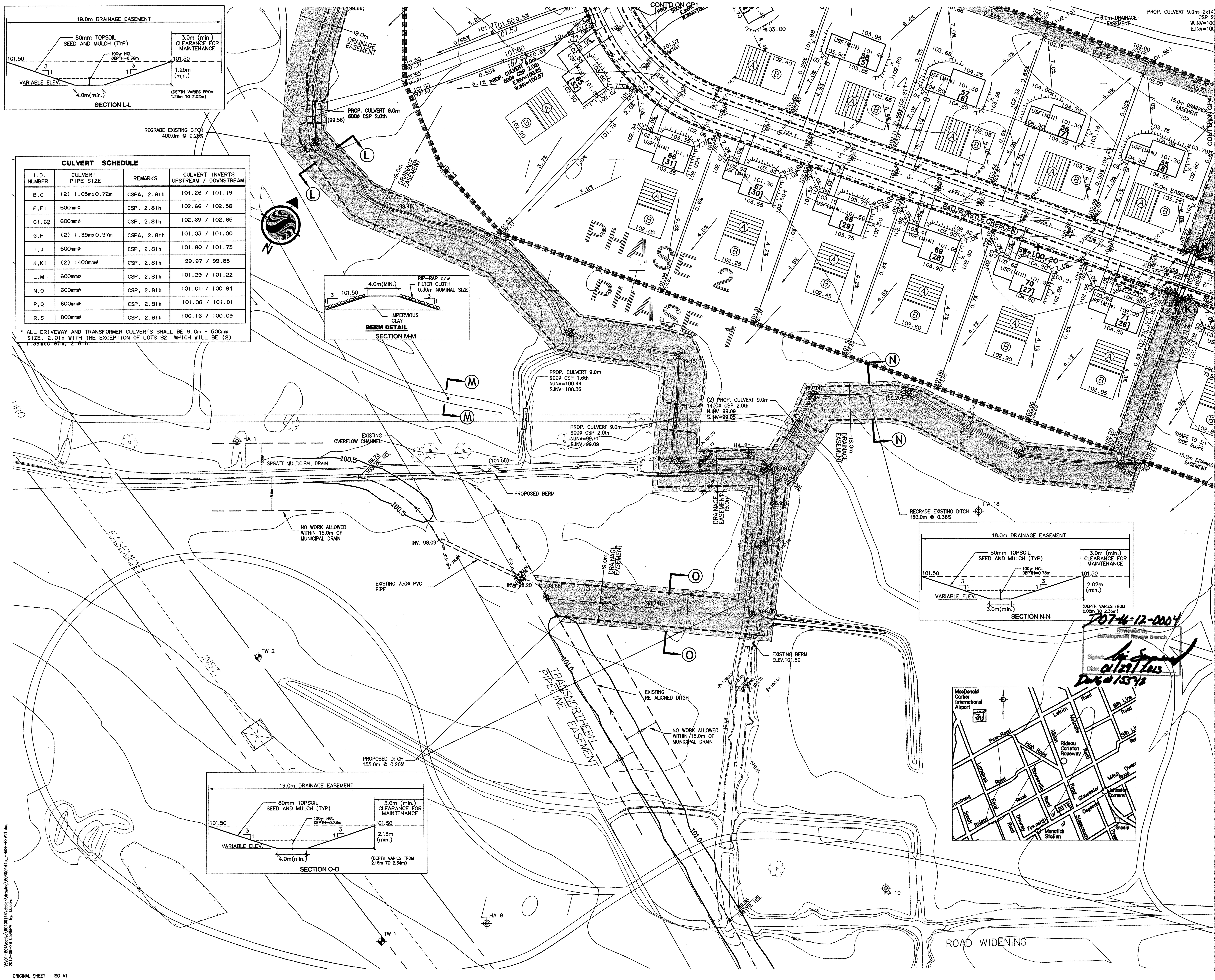

CULVERT SCHEDULE

I.D. NUMBER	CULVERT PIPE SIZE	REMARKS	CULVERT INVERTS UPSTREAM / DOWNSTREAM
B,C	(2) 1.03mx0.72m	CSPA, 2.8th	101.26 / 101.19
F,F1	600mmø	CSP, 2.8th	102.66 / 102.58
G1,G2	600mmø	CSP, 2.8th	102.69 / 102.65
G,H	(2) 1.39mx0.97m	CSPA, 2.8th	101.03 / 101.00
I,J	600mmø	CSP, 2.8th	101.80 / 101.73
K,K1	(2) 1400mmø	CSP, 2.8th	99.97 / 99.85
L,M	600mmø	CSP, 2.8th	101.29 / 101.22
N,O	600mmø	CSP, 2.8th	101.01 / 100.94
P,Q	600mmø	CSP, 2.8th	101.08 / 101.01
R,S	800mmø	CSP, 2.8th	100.16 / 100.09

* ALL DRIVEWAY AND TRANSFORMER CULVERTS SHALL BE 9.0m - 500mm SIZE, 2.0th WITH THE EXCEPTION OF LOTS 82 WHICH WILL BE (2) 1.39mx0.97m, 2.8th.

Stantec Consulting Ltd.
1505 Laperriere Avenue
Ottawa ON Canada
K1Z 7T1
Tel. 613.722.4420
Fax. 613.722.2799
www.stantec.com

Legend

- PROPOSED CULVERT
- PROPOSED DITCH
- 31 (16) 103.46 — PROPOSED HOUSE ENVELOPE AND LOT NUMBER. PROPOSED ELEVATION TO BE IMPLEMENTED AROUND ALL SIDES OF THE HOUSE ENVELOPES.
- [16] — LOTS NUMBERS INDICATED IN SQUARE BRACKETS REFER TO REGISTERED LOTS FOR PHASE 2
- PARTIALLY-RAISED LEACHING BED WITH NATIVE MANTLE (8 RUNS OF 15m) MIN. 8m FROM ANY STRUCTURES MIN. 6m FROM ANY PROPERTY LINES. (REFER: J.D. PATTERSON AND ASSOC. REPORT G8329-03 DATED MAY 12, 2003, REVISED APRIL 04, 2005.
- 102.25 — SPARE AREA FOR PARTIALLY-RAISED LEACHING BED (8 RUNS OF 15m) AND BED ELEVATIONS
- PROPOSED DRILLED WELL
- HAND AUGER HOLE LOCATION
- TEST WELL LOCATION
- DRAINAGE EASEMENT
- 102.46 / 102.46 — PROPOSED LOT CORNER ELEVATION / EXISTING LOT CORNER ELEVATION
- x (102.85) — PROPOSED ℄ DITCH ELEVATION
- 101.723 / 100 YR. HGL — 100 YEAR FLOOD ELEVATION
- FILL TO PROVIDE DITCH BACK SLOPE
- (Q) — CULVERT IDENTIFICATION
- GW=101.0m — GROUND WATER ELEVATION (MARCH 17, 2005)
- USF(MIN) 101.80 — LOWEST USF BASED ON GROUND WATER ELEVATIONS. SEE NOTES 4 & 5
- 100yr HGL ELEVATION
- NOISE FENCE

Notes

1. ELEVATIONS AT HOUSES ARE BASED ON PARTIALLY RAISED TILE BEDS ON GRAVITY SYSTEM. IF PUMPING IS USED HOUSE ELEVATIONS CAN BE LOWERED. SEPTIC SYSTEM LAYOUT TO BE REVISED ON A LOT BY LOT BASIS.

   CAUTION: LOWERING OF FOUNDATIONS BELOW GROUND WATER TABLE WILL RESULT IN EXCESSIVE OPERATION OF SUMP PUMPS.
2. REFER TO GP-4 FOR GRADING DETAILS.
3. ALL DITCHES SHALL BE c/w 80mm TOPSOIL SEED AND MULCH.
4. GWL – RECORDED GROUND WATER ELEVATION. UNDERSIDE OF FOOTING (USF) ELEVATIONS SHALL BE 0.15M (MIM) ABOVE THIS ELEVATION. AS PER THE GEOTECHINCAL REPORT THE FOLLOWING OPTIONS ARE TO BE CONSIDERED FOR DRAINAGE AT THE RESIDENTIAL STRUCTURES:

   4.1. DAMP PROOF THE EXTERIOR OF THE FOUNDATION WALLS AND BACKFILL THE WALLS WITH FREE DRAINING, NON-FROST SUSCEPTIBLE SAND OR SAND AND GRAVEL, SUCH AS THAT MEETING ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) REQUIREMENTS FOR GRANULAR B TYPE I. OR

   4.2. INSTALL AND APPROVED PROPRIETARY DRAINAGE MATERIAL (SUCH AS SYSTEM PLATON) ON THE EXTERIOR OF THE FOUNDATION WALLS AND BACKFILL THE WALLS WITH NATIVE MATERIAL OR IMPORTED SOIL.

   A PERFORATED DRAIN SHOULD BE INSTALLED AROUND THE BASEMENT AREA AT THE LEVEL OF THE BOTTOM OF THE FOOTINGS. THE DRAIN SHOULD OUTLET TO A SUMP FROM WHICH THE WATER IS PUMPED OR SHOULD DRAIN BY GRAVITY TO A SUITABLE OUTLET.
5. USF IS TYPICALLY BASED ON THE FINISHED HOUSE ELEVATIONS (LESS 2.25m) HOWEVER THE (MINIMUM) USF IS THE LOWEST ELEVATION THE USF CAN BE BASED ON EITHER THE GWL OR 100 YEAR FLOOD ELEVATION WHICH EVER IS GREATER.

Revision		By	Appd.	Date
9	REMOVED PROP. ENTRANCE FEATURES	GBU	TJW	JAN.15/13
8	REVISED AS PER CITY COMMENTS	ATR	TJW	SEP.25/12
7	REVISED AS PER CITY COMMENTS	ATR	TJW	JAN.27/12
6	100yr FLOODLINE	GBU	TJW	JUN.23/05
5	REVISED AS PER CITY COMMENTS -ADD STREET NAMES, - M-PLAN LOT #'S	GBU	TJW	MAY.25/05
4	REVISED AS PER CITY COMMENTS - REVISED CULVERT SIZING, SWM	NI	TJW	MAR.28/05
3	REVISED SITE PLAN DATED SEPT27/04	SK	TJW	OCT.18/04
2	REVISED AS PER NEW TOPO AND CITY COMMENTS	GBU	TJW	SEP.21/04
1	REVISED LOT & ROAD LAYOUT	GBU	TJW	DEC.8/03

File Name: 60400144U-BASE — Dwn. Chkd. Dsgn. Date

Seals

LICENSED PROFESSIONAL ENGINEER P. MOROZ JAN 22, 2013 PROVINCE OF ONTARIO

Reviewed by Development Review Branch
Signed:
Date: 01/29/2013

D07-16-12-0004
DWG# 15542

Client/Project
CAVANAGH CONSTRUCTION
EMERALD LINKS SUBDIVISION
Ottawa, Ontario

Title
GRADING PLAN

Project No.	Scale	
60400144	1:750 (0 7.5 22.5 37.5m)	
Drawing No.	**Sheet**	**Revision**
GP-3	16 of 24	9