



DATUM	NGVD 1928
VERTICAL	NAD 1927
HORIZONTAL	NAD 1927

NOTE:
THE RELOCATION OF UTILITIES (POLES/ANCHORS, ETC.) WILL BE PERFORMED BY THE UTILITY COMPANY. THE EXISTING UNDERGROUND TELEPHONE LINES WILL BE ABANDONED IN PLACE. REMOVAL AND DISPOSAL OF LINES WILL BE THE CONTRACTOR'S RESPONSIBILITY.



THE LOUIS BERGER GROUP, INC.

ROUTE 121 LAYOUT PLAN - 100% DESIGN	
PROJECT:	PROJECT NO.:
GRAFTON-ROCKINGHAM, ROUTE 121	STP 0126(4)S
DESIGN FILE NAME:	PLOT DATE: 12/08/03
P/ARM FILE NAME:	SURVEY DATE:
SURVEYED BY:	DRAWN BY:
SQUAD LEADER:	SHEET: 17 OF 116

- NEW DRAINAGE**
- (26) NOT USED
 - (27) STA 12+449, 9.0m LT TO STA 12+483, 8.5m RT
CONSTRUCT 450mm X 900mm CONCRETE END SECTION
INV. 900mm (OUT)=175.40
CONSTRUCT 600mm X 900mm CONCRETE HEADWALL AT OUTLET
CONSTRUCT STONE FILL TYPE II AT QUILET
 - (28A) STA 12+800, 6.4m LT TO STA 12+800, 11.0m RT
CONSTRUCT PRECAST CATCH BASIN
CONSTRUCT 16.2m X 750mm GPEP (SL) 14.33m
GRATE ELEV.=173.98
INV. 750mm (IN)=172.50
INV. 150mm (WEST)(IN)=172.50
INV. 150mm (EAST)(IN)=172.50
CONSTRUCT CONCRETE HEADWALL
INV. AT HEADWALL=171.90
CONSTRUCT STONE FILL TYPE II AT OUTLET

- ELIMINATED SYSTEM**
- (298) STA 12+590, 6.9m LT TO STA 12+600, 6.4m LT
CONSTRUCT 750mm CONCRETE END SECTION
CONSTRUCT 19.4m X 750mm GPEP (SL)
INV. AT END SECTION=144.40
 - (298A) STA 12+700, 6.4m LT TO STA 12+781, 6.4m LT
CONSTRUCT PRECAST CATCH BASIN
GRATE ELEV.=173.23
CONSTRUCT 0.3m HIGH X 1m WIDE BERM IN DITCH
DOWNSTREAM OF BASIN (SEE CROSS SECTIONS)
CONSTRUCT 79.8m X 600mm GPEP (SL) 81.08m
INV. 150mm (OUT)(EAST)=171.75
INV. 150mm (IN)(WEST)=171.75
INV. 600mm (OUT)=171.50

- (299) STA 12+781, 6.7m LT TO STA 12+781, 7.0m RT
CONSTRUCT PRECAST CATCH BASIN
GRATE ELEV.=172.50
CONSTRUCT 0.3m HIGH X 1m WIDE BERM IN DITCH
DOWNSTREAM OF BASIN (SEE CROSS SECTIONS)
CONSTRUCT 15.7m X 600mm GPEP (SL) 15.24m
INV. 600mm (IN)=171.00
INV. 600mm (OUT)=170.90
INV. 150mm (OUT)(EAST)=170.80
INV. 150mm (IN)(WEST)=170.90
CONSTRUCT CONCRETE HEADWALL
INV. AT HEADWALL=170.60
CONSTRUCT STONE FILL TYPE I AT OUTLET

- (30) STA 12+636, 8.4m LT TO STA 12+644, 6.4m LT
CONSTRUCT 6m X 450 mm RCP 9.75m
INV (IN)=173.66
INV (OUT)=173.50

- (U8) STA 12+438, 5.0m LT TO STA 12+380, 5.0m LT
CONSTRUCT 588m X 150mm UNDERDRAIN
CONSTRUCT FLUSHING BASIN AT 12+438
INV. OUT AT FLUSHING BASIN=174.950
CONNECT TO PROPOSED FLUSHING BASIN AT 12+380
INV. IN AT FLUSHING BASIN=174.350
- (U9) STA 12+485, 5.0m LT TO STA 12+530, 5.0m LT
CONSTRUCT 768m X 150mm UNDERDRAIN
CONSTRUCT FLUSHING BASIN AT 12+485
INV. OUT AT FLUSHING BASIN=174.950
CONNECT TO PROPOSED FLUSHING BASIN AT 12+530
INV. IN AT FLUSHING BASIN=173.50
- (U20) STA 12+530, 5.0m LT TO STA 12+600, 6.4m LT
CONSTRUCT 768m X 150mm UNDERDRAIN
CONSTRUCT FLUSHING BASIN AT 12+530
INV. OUT AT FLUSHING BASIN=173.50
CONNECT TO PROPOSED CATCH BASIN AT 12+600
INV. IN AT CATCH BASIN=172.50 172.50

- (U21) STA 12+600, 6.4m LT TO STA 12+700, 6.4m LT
CONSTRUCT 488m X 150mm UNDERDRAIN
CONSTRUCT FLUSHING BASIN AT 12+600
INV. OUT AT CATCH BASIN=174.00 171.75
CONNECT TO PROPOSED CATCH BASIN AT 12+700
INV. IN AT CATCH BASIN=172.50
- (U22) STA 12+700, 6.4m LT TO STA 12+781, 5.0m LT
CONSTRUCT 88m X 150mm UNDERDRAIN
CONSTRUCT FLUSHING BASIN AT 12+700
INV. OUT AT CATCH BASIN=172.50 171.75
CONNECT TO PROPOSED CATCH BASIN AT 12+781
INV. IN AT CATCH BASIN=170.60 171.00

- EXISTING IMPROVEMENTS**
- (65) BURNIN --- REMOVE
 - (66) 750mm --- REMOVE
 - (67) 300mm --- REMOVE
 - (68) 300mm --- REMOVE

Box Beam, Grouted
Sta 12+256.0 to 12+860.0-RT
12+863.5 RT

Construct stone fill type I, 0.3m thick cover stone with 6" top soil and seed

Proposed utility pole and anchor (by others)

Proposed utility pole and anchor (by others)

CONSTRUCT DRIVE	LEFT	RIGHT
12+443		
12+818		