

TO BE READ IN CONJUNCTION WITH LEA DWG

No's:

UVHM-C2023-01
UVHM-C2023-02
UVHM-C2023-03
UVHM-C2023-04
UVHM-C2023-05
UVHM-C2023-06
UVHM-C2023-07
UVHM-C2023-08
UVHM-C2023-09
UVHM-C2023-10
UVHM-C2023-11
UVHM-C2023-12

HEALD HT3 MANUALLY OPERATED
MATADOR 6 BOLLARD SYSTEM
BASE TO BE LAID AT ANGLE OF 1° TO
MATCH EXISTING GROUND SLOPE.
BOLLARDS ARE TO BE SET AT AN
ANGLE OF 1°.
THIS ALLOWS MINIMUM RE-GRADING
OF EXISTING GROUND.
HEAT TRACE TO BE INSTALLED TO
MANUFACTURERS RQUIREMENTS.

EXISTING PAVERS.
25-35mm SAND BEDDING.
160mm C30 CONCRETE MATADOR
FOUNDATION.
150mm C30 CONCRETE MATADOR
FOUNDATION.
50mm BLINDING.
TYPE 1 GRANULAR FILL
WELL COMPACTED IN
MAX 150mm LAYERS.

DETAIL X
SCALE 1:10

IDENTIFIED HAZARDS

- | | |
|----|--|
| 6. | REINFORCEMENT WILL NEED TO BE REDUCED IN THIS AREA. |
| 7. | CARE TO BE TAKEN AROUND MANHOLES AND DRAINS. |
| 8. | EXISTING BOLLARDS TO BE REMOVED PRIOR TO WORKS COMMENCING. |
| 9. | CONNECTING POINTS FOR MATADOR DRAINAGE TO BE PROVIDED. |

CONT'D ON DWG No. 1126-SY-GA-201

11 No. TOWNSCAPE CT BLOCK
V/7500[N2]64/90/12.3/2.2
EXTERNAL FINISHES
TO BE CONFIRMED BY CITY OF TORONTO.

FRONT STREET
ELEVATION
E-E
SCALE 1:50

CONT'D ON DWG No. 1126-SY-GA-201

SUPPLY & INSTALLATION OF BOLLARDS NOT IN CONTRACT
LOCATION SHOWN FOR REFERENCE ONLY

HEALD HT3 MANUALLY OPERATED MATADOR 4 BOLLARD SYSTEM
WITH 110mm ARCHITECTURAL PAVING SYSTEM (APS) V/7200[N2A]/80/90/3.2
WITH 1No ADDITIONAL STATIC BOLLARD ON BESPOKE BRACKET EACH SIDE.
MATADOR 4 BASE DIMENSIONS 5490 X 2060 X 160mm OPENING
APERTURE 4147mm (EXCLUDING SHROUDS) 307Ø STAINLESS STEEL
SHROUDS, BANDING REQUIREMENTS TO BE CONFIRMED & BASE
FINISHES TO BE CONFIRMED BY CITY OF TORONTO. EXISTING DRAIN TO BE LEFT
INTACT AND REMAIN IN PLACE. HEAT TRACE TO BE INSTALLED TO
DRAINAGE REFER TO LEA DWG No.: UVHM-C2023-12.

* ARCHITECTURAL PAVING SYSTEM TO BE IN-FILLED WITH MATCHING
EXISTING PAVERS.

10 No. ATG SP 1000 SHALLOW MOUNT BOLLARDS
V/7500[N2]/80/90:5.0/14.0 @1500mm CTRS.
307mm Ø STAINLESS STEEL SHROUDS.
BANDING REQUIREMENTS
& BASE FINISHES TO BE CONFIRMED BY
CITY OF TORONTO.

FRONT STREET
ELEVATION
E-E
SCALE 1:50

CONT'D FROM ABOVE

CONT'D FROM ABOVE

HEALD HT3 MANUALLY OPERATED MATADOR 4 BOLLARD SYSTEM
WITH 110mm ARCHITECTURAL PAVING SYSTEM (APS) V/7200[N2A]/80/90/3.2
WITH 1No ADDITIONAL STATIC BOLLARD ON BESPOKE BRACKET EACH SIDE.
MATADOR 4 BASE DIMENSIONS 5490 X 2060 X 160mm OPENING
APERTURE 4147mm (EXCLUDING SHROUDS) 307Ø STAINLESS STEEL
SHROUDS, BANDING REQUIREMENTS TO BE CONFIRMED & BASE
FINISHES TO BE CONFIRMED BY CITY OF TORONTO. HEAT TRACE TO
BE INSTALLED TO MANUFACTURERS RQUIREMENTS. FOR THE CONNECTION
OF MATADOR TO DRAINAGE REFER TO LEA DWG No.: UVHM-C2023-12.

* ARCHITECTURAL PAVING SYSTEM TO BE IN-FILLED WITH MATCHING
EXISTING PAVERS.

11 No. ATG SP 1000 SHALLOW MOUNT BOLLARDS
V/7500[N2]/80/90:5.0/14.0 @1500mm CTRS.
307mm Ø STAINLESS STEEL SHROUDS.
BANDING REQUIREMENTS
& BASE FINISHES TO BE CONFIRMED BY
CITY OF TORONTO.

FRONT STREET
ELEVATION
F-F
SCALE 1:50

CONT'D FROM ABOVE

NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ANY QUERIES ARE TO BE REFERRED BACK TO THE ENGINEER FOR CLARIFICATION.
- ALL CONCRETE IN ACCORDANCE WITH TS 1350 AND CSA A23.1.
- CONCRETE DESIGNATED MIX:
BLINDING - GEN 1
REINFORCED CONCRETE - C 32/40, RC40, TS 1350 20mm
AGGREGATE, S3 SLUMP.
NO ADMXTURE IS TO BE USED WITHOUT THE ENGINEERS
PERMISSION.
- SHOULD THE AIR TEMPERATURE RISE ABOVE 30°C OR FALL
BELOW 5°C, SPECIAL PRECAUTIONS ARE TO BE TAKEN, ALL TO
ENGINEER'S APPROVAL.
- CURING TO BE DONE FOR AT LEAST 7 DAYS.
- REINFORCEMENT BARS TO BE HIGH YIELD STEEL TO CURRENT
CSA G3018 AND OPSS 1440, FABRIC REINFORCEMENT TO
ASTM A1064.
- REINFORCEMENT SCHEDULING TO OPSS 905 AND CSA-S6.
- COVER TO ALL REINFORCEMENT: 40mm UNLESS OTHERWISE
NOTED.
- REINFORCEMENT LAP LENGTHS ARE TO BE A MINIMUM OF 44 D
UNLESS OTHERWISE NOTED.
- ALL MATERIAL AND WORKMANSHIP IN ACCORDANCE WITH
RECOMMENDATIONS OF TS1350.
- PRODUCTS TO BE INSTALLED IN ACCORDANCE WITH
MANUFACTURERS GUIDELINES AND REQUIREMENTS.

TO BE READ IN CONJUNCTION WITH DWG No:

1126-SY-GA-000
1126-SY-GA-100
1126-SY-GA-101
1126-SY-GA-102
1126-SY-GA-200
1126-SY-GA-201
1126-SY-GA-203
1126-SY-GA-204
1126-SY-GA-205
1126-SY-GA-206
1126-SY-GA-300
1126-SY-GA-301
1126-SY-GA-302
1126-SY-GA-303
1126-SY-GA-400
1126-SY-GA-401
1126-SY-GA-402
1126-SY-GA-403
1126-SY-GA-404

P02	20.12.23	UPDATED NOTES SECTION	DT	IJM	
P01	05.12.23	FOR TENDER	MJH	MJC	MJC
REV	DATE	DESCRIPTION	BY	CHKD	APVD

CONTRACT NAME:

UNION STATION TORONTO HVM - 23177804

CLIENT:

CITY OF TORONTO.

D.J. Goode & Associates Ltd.

Consulting Civil Engineers.
The Old Control Tower,
Lavenham Airfield,
Old Bury Road,
Alpheton,
Sudbury, Suffolk,
CO10 9BT.

Tel: 01284 827472
Email: p1@djgoode.co.uk

© D.J. Goode & Associates Ltd. 2023

DRAWN BY: MJH	DATE: 05.12.23	CHECKED BY: MJC	DATE: 05.12.23	APPROVED BY: MJC	DATE: 05.12.23
SIGNED:		SIGNED:		SIGNED:	

DRAWING TITLE:

UNION STATION TORONTO
ELEVATION, E-E, F-F.

SCALE: 1:50 @ A1	DRAWING STATUS: FOR TENDER	PROTECTIVE MARKING:
---------------------	-------------------------------	---------------------

DRAWING NUMBER:
1126-SY-GA-202

REV:
P02

