

| BOLLARD LIST | |
|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|
| REF No. | BOLLARD ANGLE |
| 22 | 90° | 30 | 90° | 38 | 90° | 46 | 90° | 54 | 90° | 62 | 90° |
| 23 | 90° | 31 | 90° | 39 | 90° | 47 | 90° | 55 | 90° | 63 | 90° |
| 24 | 90° | 32 | 90° | 40 | 90° | 48 | 90° | 56 | 90° | 64 | 90° |
| 25 | 90° | 33 | 90° | 41 | 90° | 49 | 90° | 57 | 90° | 65 | 90° |
| 26 | 90° | 34 | 90° | 42 | 90° | 50 | 90° | 58 | 90° | 66 | 90° |
| 27 | 90° | 35 | 90° | 43 | 90° | 51 | 90° | 59 | 90° | 67 | 90° |
| 28 | 90° | 36 | 90° | 44 | 90° | 52 | 90° | 60 | 90° | 68 | 90° |
| 29 | 90° | 37 | 90° | 45 | 90° | 53 | 90° | 61 | 90° | | |

| BLOCK LIST | | BLOCK LIST | | BLOCK LIST | |
|------------|--------|------------|--------|------------|--------|
| REF No. | LENGTH | REF No. | LENGTH | REF No. | LENGTH |
| U | 1490 | CC | 1490 | LL | 1490 |
| V | 1490 | DD | 1490 | MM | 1490 |
| W | 1490 | EE | 1490 | NN | 1490 |
| X | 1490 | FF | 1490 | | |
| Y | 1490 | GG | 1490 | | |
| Z | 1490 | HH | 1490 | | |
| AA | 1490 | JJ | 1490 | | |
| BB | 1490 | KK | 1490 | | |

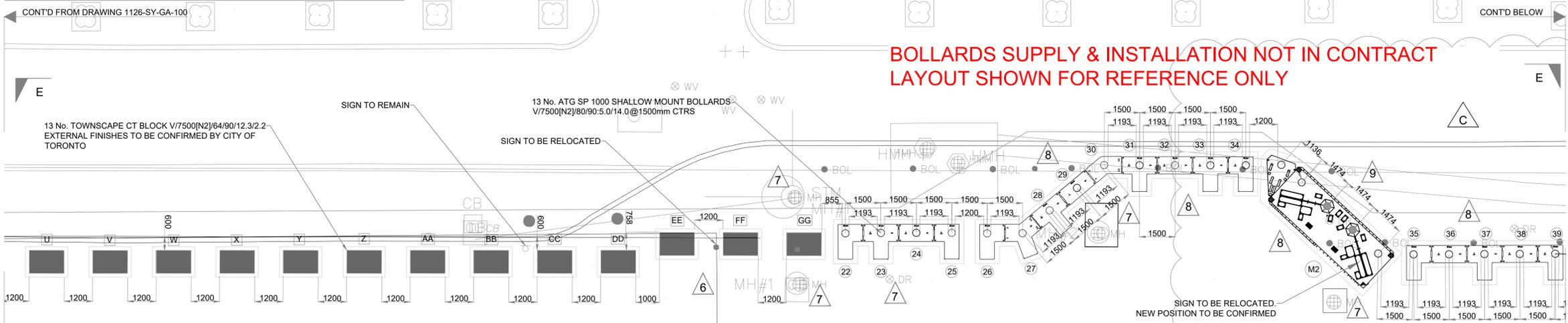
| BLOCK LIST | | MATADOR LIST | |
|------------|--------|--------------|-------------|
| REF No. | LENGTH | REF No. | BOLLARD QTY |
| LL | 1490 | M2 | 5 |
| MM | 1490 | M3 | 5 |
| NN | 1490 | | |

NOTE:
* = ANGLES TO BE VALIDATED BY CONTRACTOR PRIOR TO FABRICATION.



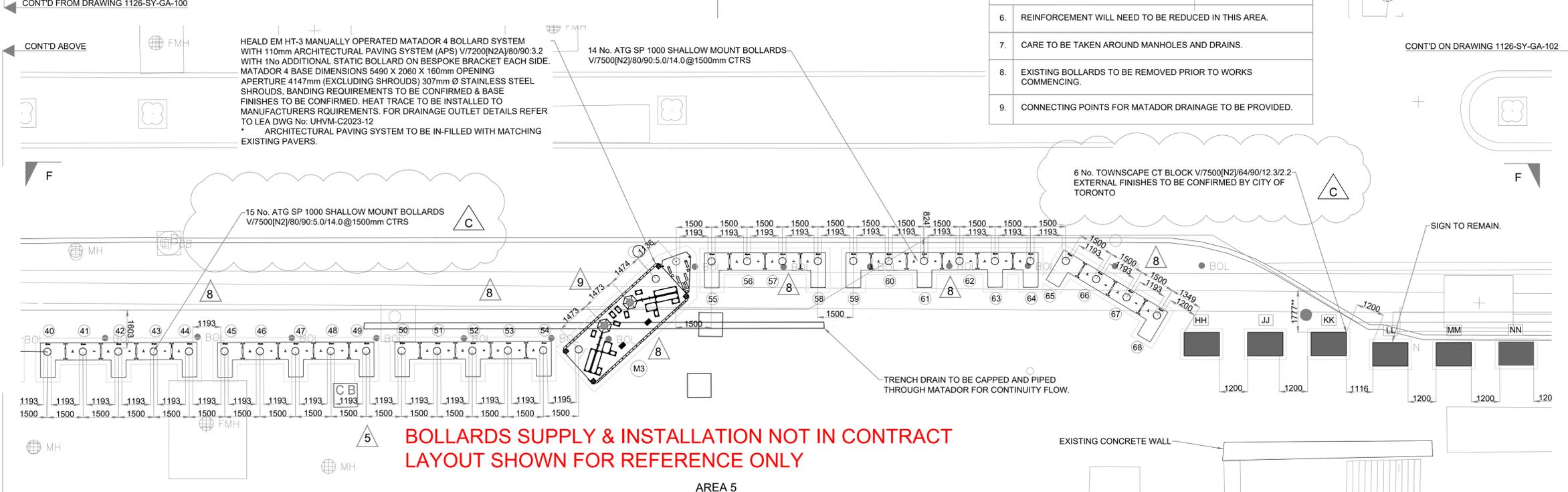
- NOTES**
- GENERAL**
- THIS DRAWING SHALL BE READ IN CONJUNCTION TO THE GENERAL NOTES IN DRAWING MP431-LCR-HVM-Z-NTS-0001.
 - DO NOT SCALE FROM THIS DRAWING.
 - ANY QUERIES ARE TO BE REFERRED BACK TO THE ENGINEER FOR CLARIFICATION.
 - ALL DIMENSIONS MARKED WITH ** SHALL BE CONFIRMED BY THE CONTRACTOR ON SITE.
 - ALL HVM LAYOUTS SHOULD BE CONFIRMED BY MAIN CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR CHECKING AND CLARIFICATION OF ANY DEVIATION FROM PLANNED DIMENSIONS.
 - TOLERANCE = +0, -10
- BLOCK - TOWNSCAPE CT BLOCK**
- BLOCK 1490mm WIDE x 990mm DEPTH x 600mm DEEP. FINISH TO BE CONFIRMED.
- BOLLARD - ATG SP 1000 SHALLOW MOUNT BOLLARDS**
- SHROUD STYLE TYPE B - Ø307mm O/D x 2mm x 1150mm TOP OF SHROUDS TO BE CONFIRMED.
- FINISHES: BANDING REQUIREMENTS & BASE FINISHES TO BE CONFIRMED.
- TO BE READ IN CONJUNCTION WITH DWG No:
- 1126-SY-GA-000
 - 1126-SY-GA-100
 - 1126-SY-GA-102
 - 1126-SY-GA-200
 - 1126-SY-GA-201
 - 1126-SY-GA-202
 - 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
- 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-C2023-08
 - UVHM-C2023-09

FOR SETTING OUT INFORMATION REFER TO DWG: 1126-SY-GA-000



AREA 4
FRONT STREET PLAN
SCALE 1:100

| 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. |



AREA 5
FRONT STREET PLAN
SCALE 1:100

| REV | DATE | DESCRIPTION | BY | CHKD | APVD |
|-----|----------|---------------------|-----|------|------|
| C | 11.12.23 | SCHEDULES REVISED | MJH | | |
| B | 05.12.23 | FOR TENDER | MJH | MJC | MJC |
| A | 06.10.23 | DESIGN FREEZE ISSUE | MJH | MJC | MJC |
| P01 | 08.09.23 | PRELIMINARY ISSUE | MJH | MJC | MJC |

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. 2021

| DRAWN BY: | DATE: | CHECKED BY: | DATE: | APPROVED BY: | DATE: |
|-----------|----------|-------------|----------|--------------|-------|
| MJH | 08.09.23 | MJC | 08.09.23 | | |

DRAWING TITLE:
UNION STATION TORONTO
FRONT STREET HVM PLAN

| SCALE: | DRAWING STATUS: | PROTECTIVE MARKING: |
|------------|-----------------|---------------------|
| 1:100 @ A1 | FOR TENDER | |

DRAWING NUMBER:
1126-SY-GA-101

REV:
C