

BUILDING MONITORING POINT RESPONSE LEVELS (TOTAL SETTLEMENT)

| DESCRIPTION | STATION | NORTHING | EASTING | REVIEW LEVEL (mm) | ALERT LEVEL (mm) |
|-------------|---------|----------|---------|-------------------|------------------|
|-------------|---------|----------|---------|-------------------|------------------|

SURFACE MONITORING POINT RESPONSE LEVELS (TOTAL SETTLEMENT)

| DESCRIPTION | STATION | NORTHING | EASTING | REVIEW LEVEL (mm) | ALERT LEVEL (mm) |
|-------------|----------|-------------|------------|-------------------|------------------|
| SMP | 0+217.00 | 5533984.763 | 634052.397 | 8 | 11 |
| SMP | 0+420.00 | 5533988.568 | 634236.189 | 8 | 11 |
| SMP | 1+026.50 | 5533641.063 | 634785.310 | 8 | 11 |
| SMP | 1+222.00 | 5533558.040 | 634962.305 | 8 | 11 |
| SMP | 1+462.50 | 5533455.927 | 635180.051 | 8 | 11 |
| SMP | 1+645.00 | 5533378.520 | 635345.322 | 8 | 11 |

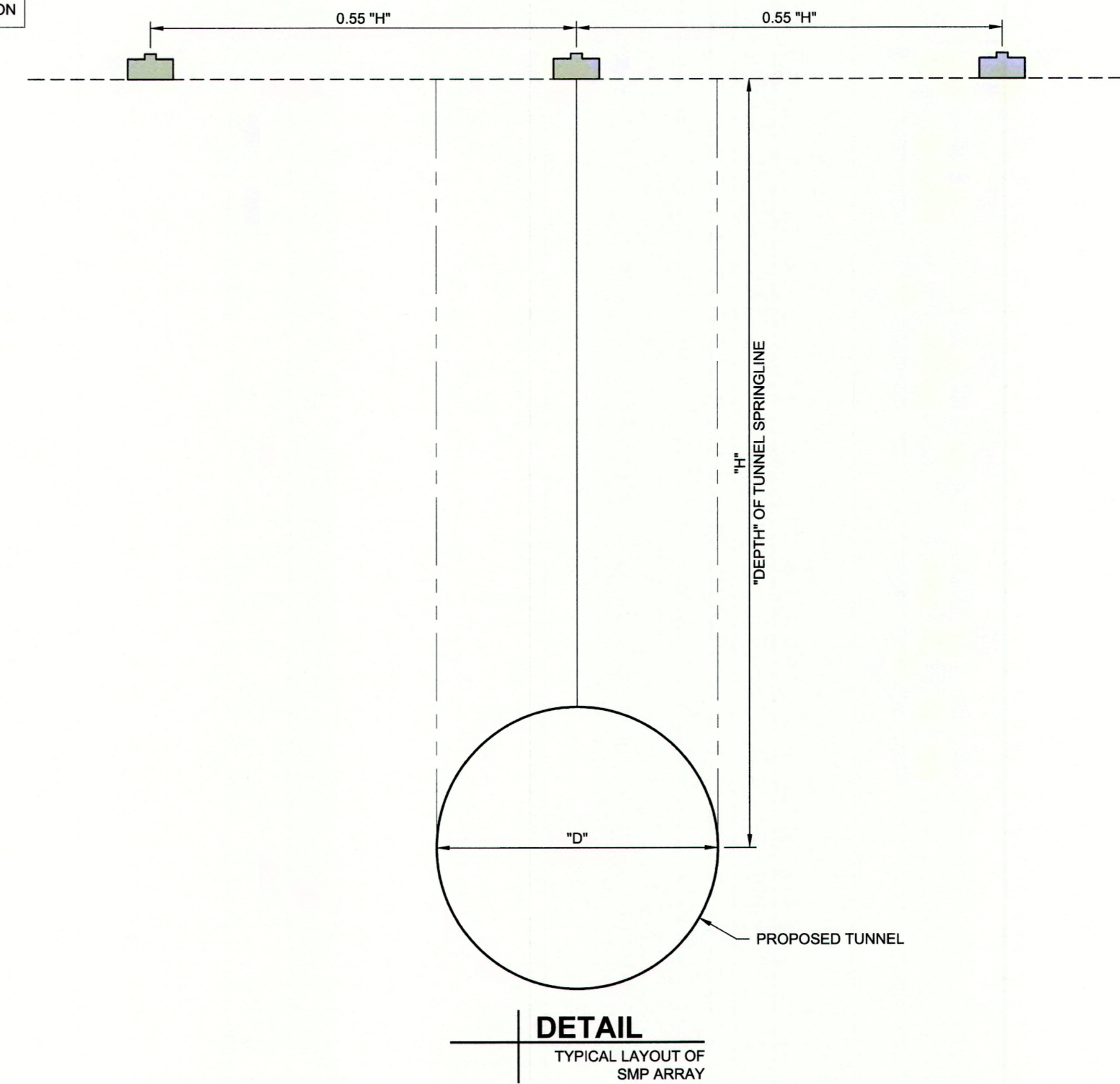
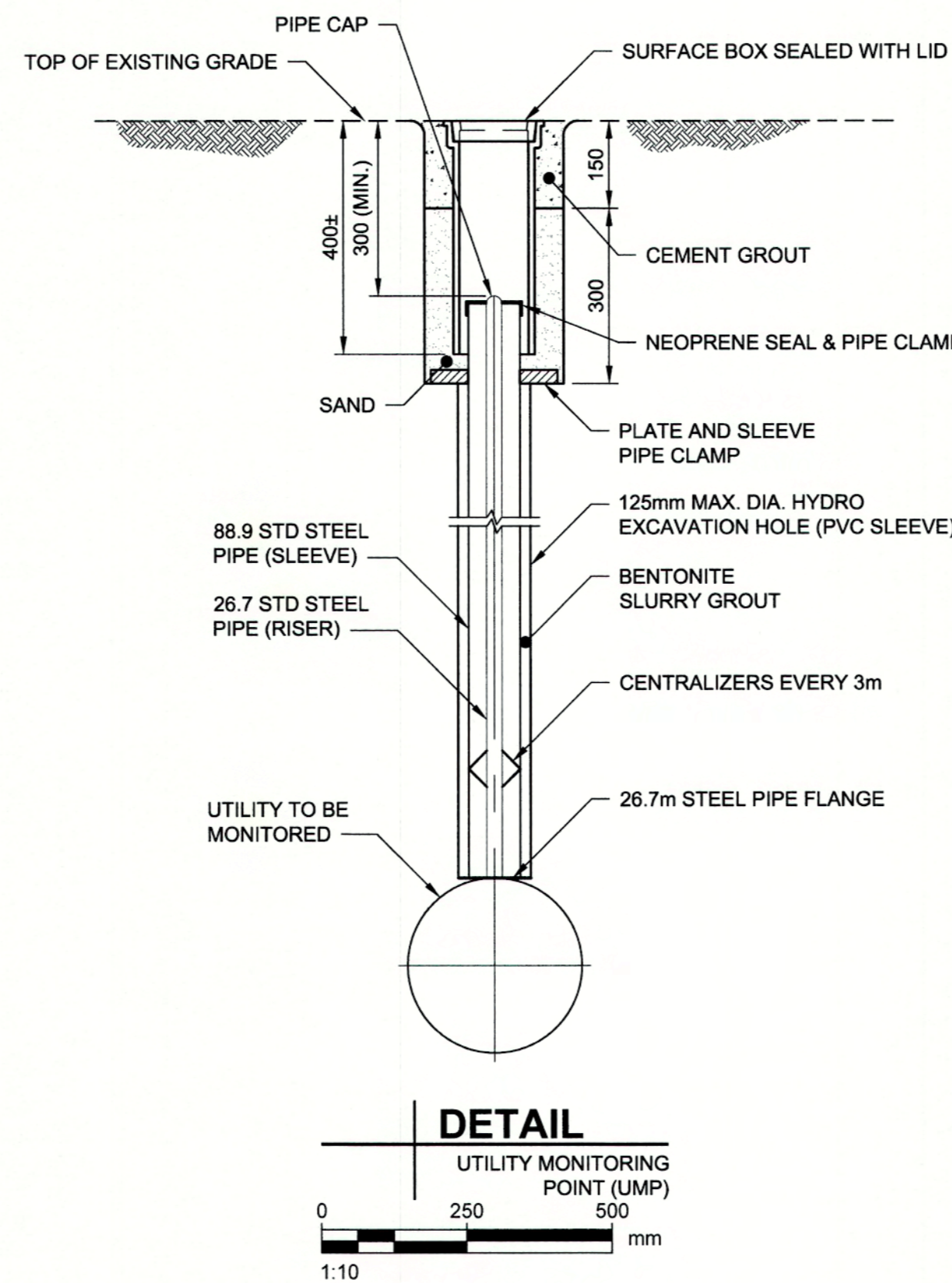
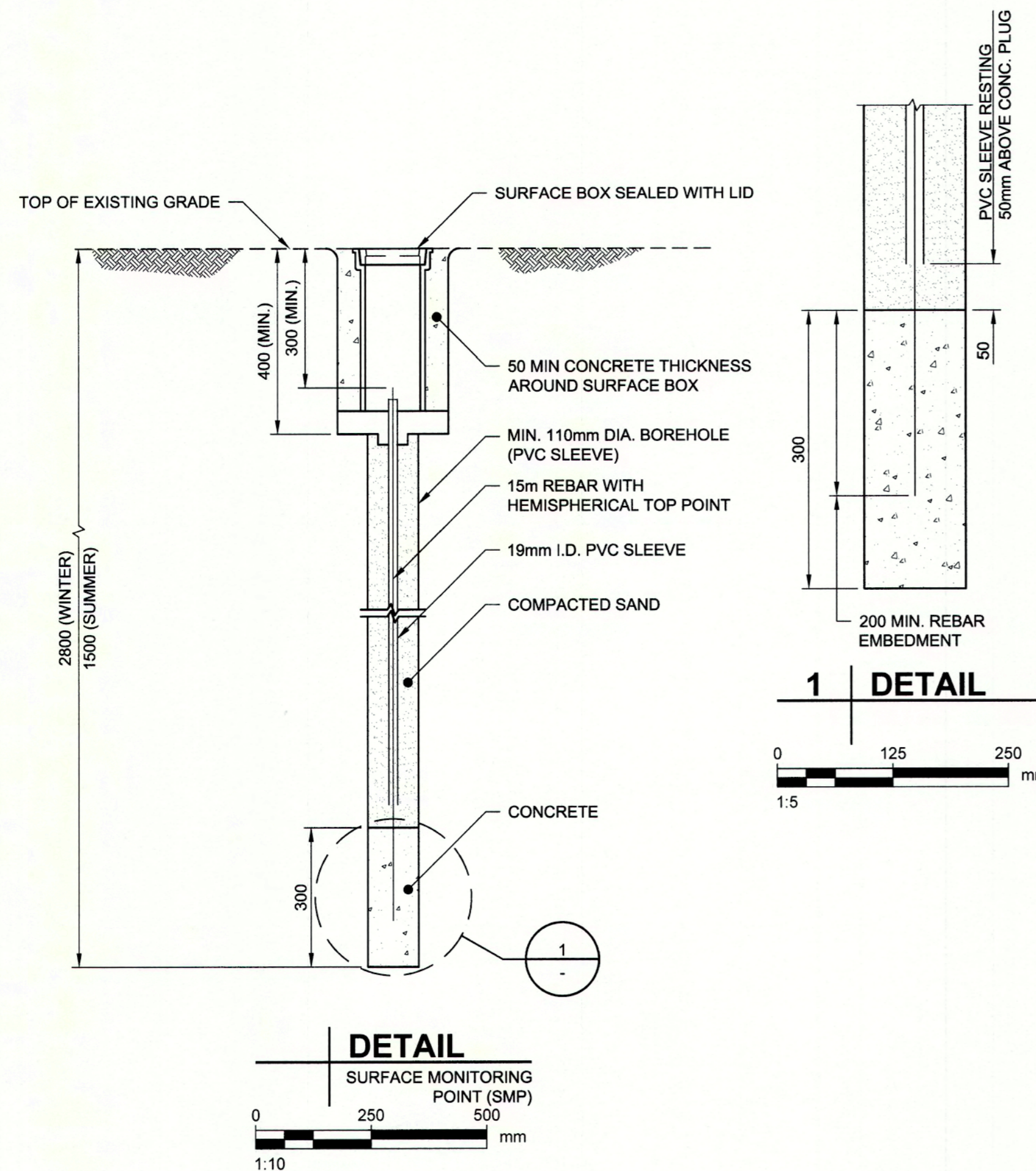
UTILITY MONITORING POINT RESPONSE LEVELS (TOTAL SETTLEMENT)

| DESCRIPTION | STATION | NORTHING | EASTING | REVIEW LEVEL (mm) | ALERT LEVEL (mm) |
|-------------|----------|-------------|------------|-------------------|------------------|
| UMP | 0+212.20 | 5533986.787 | 634048.088 | 8 | 11 |
| UMP | 0+412.60 | 5533901.713 | 634229.484 | 8 | 11 |
| UMP | 0+607.10 | 5533819.116 | 634405.604 | 8 | 11 |
| UMP | 1+211.50 | 5533562.492 | 634952.812 | 8 | 11 |
| UMP | 1+455.90 | 5533459.176 | 635174.245 | 8 | 11 |

INSTRUMENTS MONITORING SCHEDULE

| INSTRUMENTS | MONITORING SCHEDULE |
|-------------|---|
| SMP & UMP | DAILY WHEN ADVANCING TUNNEL FACE IS 20m AWAY TO REACH THE INSTRUMENT LOCATION AND 30m PAST THE UTILITY 1 READING 2 WEEKS AFTER TUNNEL PASSES INSTRUMENT LOCATION |
| BMP | DAILY READING WHILE ANY PORTION OF BUILDING FOOTPRINT IS WITHIN 20m OF ADVANCING TUNNEL 1 READING UP TO 2 WEEKS AFTER TUNNEL PASSES INSTRUMENT LOCATION |

NOTE:
SEE SPECIFICATIONS FOR RAILWAY MONITORING REQUIREMENTS.



ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: Dec 23, 2019

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| LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. | B.M. ELEV. <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> | | | | | | | | | | | | | | | | | AECOM DESIGNED BY: JAT CHECKED BY: [Signature] DRAWN BY: ADL APPROVED BY: [Signature] SCALE: HORIZONTAL AS NOTED VERTICAL AS NOTED DATE: 2019 12 20 PLOT DATE: 2019 12 20 | ENGINEER'S SEAL CONSULTANT DRAWING NUMBER C-5001 | THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION JEFFERSON EAST COMBINED SEWER RELIEF CONTRACT 5 - SEMPLE TRUNK SEWER STANDARD DETAILS MONITORING AND INSTRUMENTATION | SHEET 29 OF 30 CITY DRAWING NUMBER LD-9621 |
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| ISSUED FOR CONSTRUCTION NO. 0 DATE 19/12/23 BY ADL | REVISIONS NO. DATE BY | | | | | | | | | | | | | | | | | | | | |