

CONTEMPLATED CHANGE NOTICE



| | | | |
|--------------|--------------------------|--------------------|----------------------------------|
| PROJECT: | 1376 Carling Ave Phase 2 | CHANGE NOTICE No.: | Civil-CCN-001.3 |
| PROJECT No.: | MHnS #132600184 | DATE: | February 07 th , 2025 |
| TO: | Corsim | CONTRACTOR: | Core Civil |

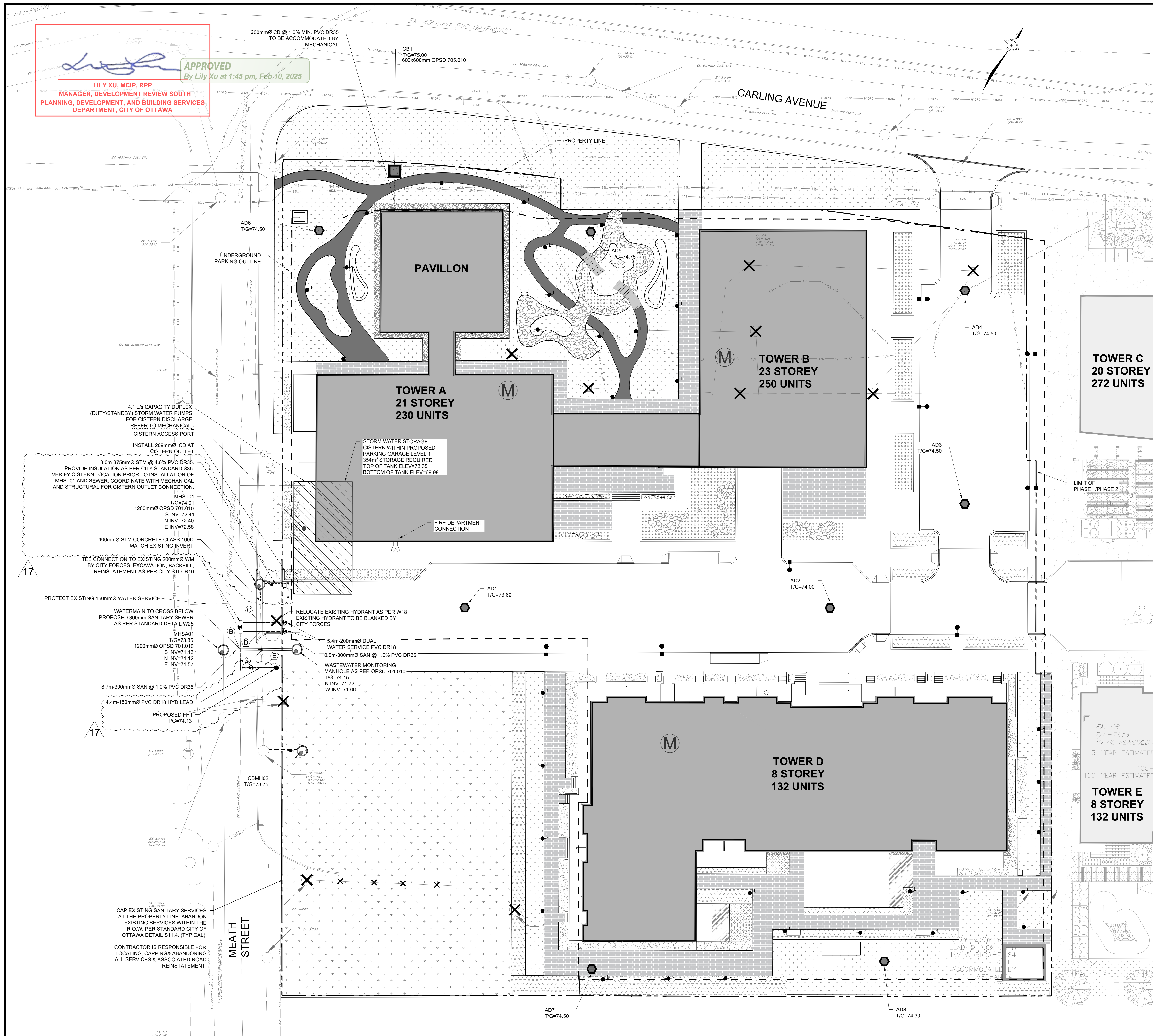
U:\132600184\10. CONSTRUCTION\02. CONTRACT ADMIN\CCN\CCN-001\1376 CARLING - CIVIL CCN-001.DOCX

The following changes are contemplated to the above project. Unless indicated otherwise, this is not an authorization to proceed. All changes that affect the contract amount shall only proceed under the authority of a Change Order. Change Orders will only be issued as the work is authorized by the owner. All costs that affect the contract amount shall be submitted to this office. All such costs are to be detailed, and each item tabulated separately.

1. **Title:** 1376 Carling Ave Phase 2 Civil CCN #1 revision 3
2. **Attachments:**
1376 Carling Ave Phase 2 – Site Servicing Plan – C001 – Revision 17
3. **References:**
1376 Carling Ave_Civil SI-003_January 10, 2024 Sanitary_Storm Service Adjustments.pdf
4. **Description:**
 1. The City of Ottawa requested additional space for the cut and cap of the existing 200mm watermain within Meath Street. The fire hydrant has been shifted east (further from the curb) as coordinated with the City of Ottawa.
 2. The storm maintenance holes (MHST01) and the 375mm storm sewer have been shifted north for a suitable cistern connection.
 3. The sanitary sewer and sanitary structures have been shifted south to accommodate additional room for the watermain installation.
 4. The new layout of the servicing requires adjustment to the proposed quantities. The following is a summary of the changes:
 - 4.1. Increase proposed 150mm PVC DR18 hydrant lead length to 4.4m from 2.9m.
 - 4.2. Increase proposed 300mm sanitary sewer length to 9.3m from 7.9m
 - 4.3. Provide insulation for the 375m storm sewer as per City standard S35.
 - 4.4. Shift MHST01 north and reconnect existing 406mm concrete storm sewer.
 5. Provide a quote for the incremental costs associated with the service relocations.
5. **Reason:**
Client request

Issued By:

Dillon O'Neil, B.Eng.
Morrison Hershfield



NOTES: GENERAL

1. COMPLETE ALL REMOVALS AND ABANDONMENTS IN ACCORDANCE WITH OPSS MUNI 510
2. COORDINATES ARE IN NAD 83 ZONE 18N WITH ZONE 18N WEST LONGITUDE (NAD 83) (ORIGINAL)
3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA PRIOR TO STARTING CONSTRUCTION
4. SERVICES ARE TO BE CONSTRUCTED TO 2m FROM FACE OF BUILDING
5. REFER TO FUNCTIONAL SITE SERVING AND STORMWATER MANAGEMENT DESIGN BRIEF, 1354 AND 1376 CARLING AVENUE DEVELOPMENT - PHASE 2 PREPARED BY MORRISON HERSHFIELD FOR SITE SERVING REPORT
6. REFER TO GEOTECHNICAL INVESTIGATION REPORT (NO. P63708-1 DATED APRIL 12, 2018) PREPARED BY PATERSON GROUP FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS
7. THE GEOTECHNICAL CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL
8. CONTRACTOR TO VERIFY ALL EXISTING UTILITY ELEVATIONS AT CONNECTION AND CROSSING LOCATIONS PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES
9. UNLESS DIRECTED OTHERWISE ANY DAMAGED ASPHALT OR CURB REGARDLESS OF WHETHER WITHIN OR EXTERNAL TO THE SITE SHALL BE REINSTATE IN ACCORDANCE WITH CITY STD. DET. R10 AND S1
10. UNLESS DIRECTED OTHERWISE THE CONTRACTOR SHALL REINSTATE ALL SIGNS, LIGHTING AND OTHER STREET FURNITURE DISTURBED BY THE WORK
11. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT TRAFFIC MANAGEMENT PLANS FOR WORK IN RIGHT OF WAY IN ACCORDANCE WITH OTM BOOK 7
12. CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S8 AND SHALL BE INSTALLED AT 50m INTERVALS IN ALL PIPE TRENCHES. CLAY SEAL TO EXTEND FULL TRENCH WIDTH AND FROM BOTTOM OF TRENCH EXCAVATION TO UNDERSIDE OF ROAD STRUCTURE, WITH A MINIMUM THICKNESS OF 1m ALONG PIPE
13. LOCATE AND CAP ANY EXISTING STORM, SANITARY AND WATER SERVICES AT THE PROPERTY LINE. ABANDON EXISTING SERVICES WITHIN THE R.O.W. PER STANDARD CITY OF OTTAWA DETAIL S11.4 (TYPICAL)
14. SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL PRECAST STRUCTURE, GRATES & COVERS, TRENCH DRAINS

SEWERS

14. ALL STORM SEWERS, SANITARY SEWERS AND CATCH BASIN LEADS SHALL BE PVC DR 35 UNLESS OTHERWISE SPECIFIED
15. REFER TO APPROPRIATE CITY STANDARD DETAILS FOR SEWER INSTALLATION
16. ALL SEWER MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2023 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS
17. MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES ON STORM SEWERS LESS THAN 900mm DIAMETER SHALL BE CONSTRUCTED WITH A 300mm SUMP. BENCHING SHALL BE INSTALLED IN MAINTENANCE HOLES ON STORM SEWERS 900mm AND ABOVE
24. STORM SEWER MAINTENANCE HOLE COVERS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S24.1 ON FRAMES TO DETAIL S25
25. CONTRACTOR SHALL MAINTAIN EXISTING SEWER FLOWS DURING CONSTRUCTION IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS
26. ALL MAINTENANCE HOLES, CATCHBASINS AND CLEANOUTS SHALL BE ADJUSTED TO POST-CONSTRUCTION GRADE
27. CITY INSPECTION OF ALL SEWERS SHALL BE REQUIRED IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. INSTALLATION OF BASE COURSE ASPHALT
28. BACKWATER VALVES SHALL BE INSTALLED ON NEW STORM AND SANITARY SERVICES AS PER CITY OF OTTAWA STANDARD DETAILS S14, S14.1, S14.2

WATERMAINS

37. ALL WATERMAIN MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2023 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER PERMIT AS REQUIRED FROM THE CITY OF OTTAWA, AND COMPLYING WITH ALL CITY OF OTTAWA REQUIREMENTS. THE CITY MAY REQUIRE THAT CERTAIN ACTIVITIES (E.G. VALVE OPERATION, CONNECTION OF NEW WATER SERVICE TO EXISTING WATERMAIN, DISINFECTION) BE CARRIED OUT ONLY BY CITY FORCES
39. ALL VALVES 300mm DIAMETER AND SMALLER SHALL INCLUDE A VALVE BOX AS PER W24
40. THE NEW WATERMAIN IS TO BE INSTALLED WITH A MINIMUM OF 2m COVER (INCLUDING HYDRANT LEAD) WHERE 2m COVER IS NOT POSSIBLE. PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAILS W22 & W23
41. THRUST RESTRAINT SHALL BE PROVIDED BY BOTH RESTRAINING/STAINING RINGS AND THRUST BLOCKS AT ALL DEAD END CAPS, PLUGS, VALVES, BENDS AND REDUCERS AS PER CITY OF OTTAWA STANDARD DETAILS W25.3, W25.4, W25.5 AND W25.8. ALL TEMPORARY THRUST RESTRAINTS ARE THE RESPONSIBILITY OF THE CONTRACTOR
42. TRACER WIRE SHALL BE PROVIDED FOR ALL NEW PVC WATERMAINS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAIL W36
43. CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL NEW WATERMAINS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAILS W36, W40, W41, W42 AND W43. CATHODIC PROTECTION OF EXISTING WATERMAINS SHALL ALSO BE PROVIDED AT CONNECTIONS BETWEEN EXISTING AND NEW WATERMAINS
44. ADJUST ALL VALVE CHAMBERS, VALVE BOXES AND HYDRANTS TO FINISHED GRADE

UTILITY NOTE

45. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, IN ADVANCE OF EXCAVATION WORK, AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION
46. ALL CROSSING OF EX UTILITIES TO BE IN ACCORDANCE WITH CITY STD. DET. S10

| PROPOSED HYDRANT LEAD TABLE | | | |
|-----------------------------|-------------------|-----------------|--|
| STATION | SURFACE ELEVATION | T/W/M ELEVATION | COMMENTS |
| 0+000 | 73.83 | 71.27± | TEE CONNECTION TO EXISTING 200mm WATERMAIN |
| 0+001.5 | 73.87 | 71.27± | 200mm VALVE AND VALVE BOX |
| 0+004.4 | 74.13 | 71.27± | HYDRANT |

| PROPOSED WATER SERVICE TABLE | | | |
|------------------------------|-------------------|-----------------|--|
| STATION | SURFACE ELEVATION | T/W/M ELEVATION | COMMENTS |
| 0+000 | 73.95 | 71.38± | TEE CONNECTION TO EXISTING 200mm WATERMAIN |
| 0+002.8 | 73.95 | 71.38± | CROSS UNDER 400mm STM |
| 0+005.0 | 73.99 | 71.38± | 200mm VALVE AND VALVE BOX |
| 0+005.4 | 74.00 | 71.38± | CAP 1.0m FROM BUILDING FACE |

| PROPOSED 200mm WATERMAIN TABLE | | | |
|--------------------------------|-------------------|-----------------|------------------------------|
| STATION | SURFACE ELEVATION | T/W/M ELEVATION | COMMENTS |
| 0+000 | 73.85 | 71.38± | WATER SERVICE TEE CONNECTION |
| 0+000.7 | 73.85 | 71.38± | 200mm VALVE AND VALVE BOX |
| 0+001.2 | 73.85 | 71.37± | WATER SERVICE TEE CONNECTION |
| 0+002.4 | 73.85 | 71.35± | 45 DEGREE ELBOW |
| 0+003.1 | 73.85 | 70.86± | 45 DEGREE ELBOW |
| 0+004.0 | 73.84 | 70.85± | CROSS UNDER SANITARY SEWER |
| 0+004.9 | 73.84 | 70.84± | 45 DEGREE ELBOW |
| 0+005.7 | 73.84 | 71.30± | 45 DEGREE ELBOW |
| 0+006.7 | 73.83 | 71.27± | HYDRANT LEAD TEE CONNECTION |

LEGEND

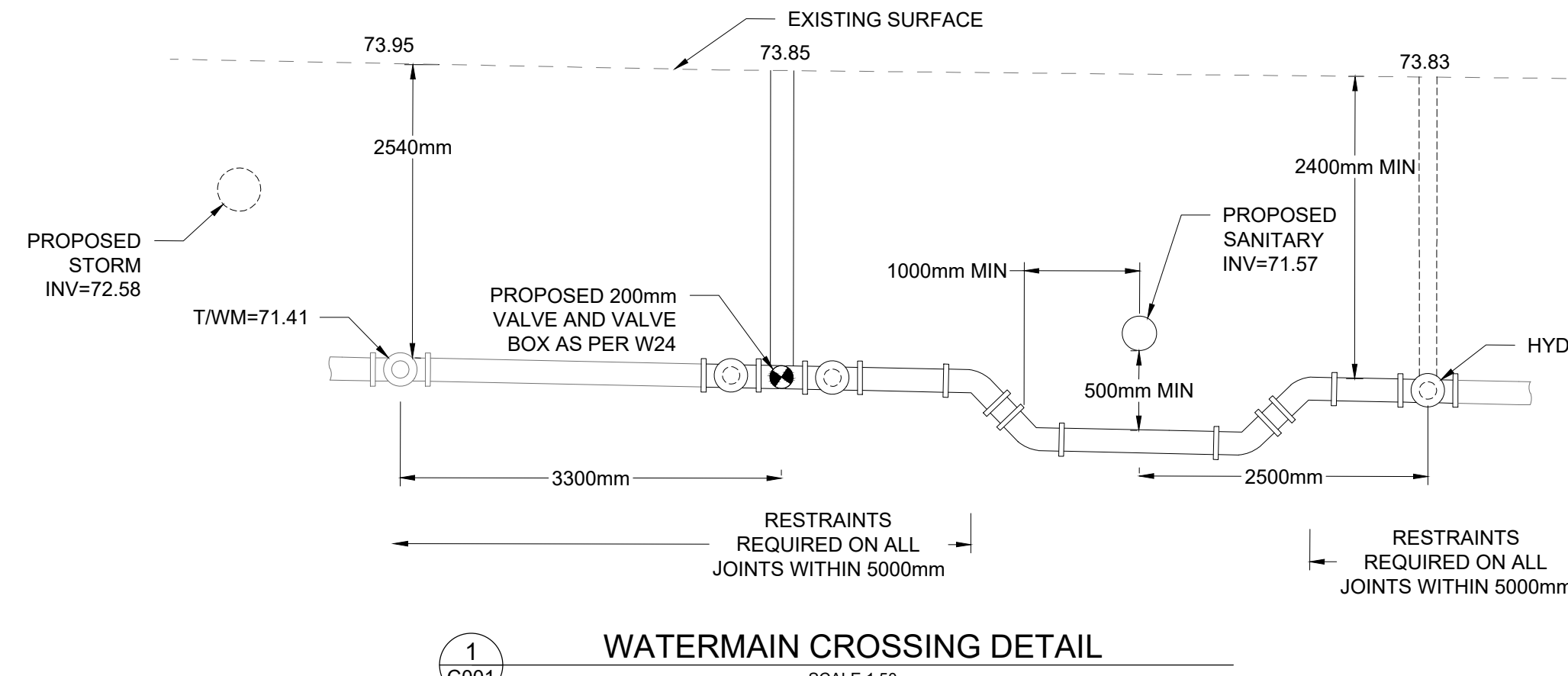
- NEW STORM SEWER
- NEW SANITARY SEWER
- NEW WATERMAIN
- NEW MANHOLE
- NEW CATCH BASIN
- NEW AREA DRAIN - TO BE CONNECTED TO MECHANICAL SYSTEM IN PARKING GARAGE
- NEW WATER VALVE AND VALVE BOX
- NEW FIRE HYDRANT
- NEW FIRE DEPARTMENT CONNECTION
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT STANDARD
- REMOVALS
- EXISTING WATERMAIN OR SEWER, VALVE CHAMBER, MAINTENANCE HOLE OR CATCH BASIN TO BE REMOVED OR ABANDONED (REMOVE IF WITHIN EXCAVATION LIMITS)
- WATER METER/ REMOTE METER
- PROPOSED LIGHT STANDARD A - REFER TO ELECTRICAL
- PROPOSED LIGHT STANDARD B - REFER TO ELECTRICAL

| PIPE CROSSING TABLE | | | | |
|---------------------|------------------------|------------------------|-----------|-------------------|
| CROSSING | LOWER PIPE | HIGHER PIPE | CLEARANCE | SURFACE ELEVATION |
| A | 300mm SAN OBV=71.92 | 406mm STM INV=72.49 | 0.57m± | 74.15m |
| B | 200mm WM OBV=70.85± | 200mm SAN INV=71.59 | NOTE 1 | 73.85m |
| C | 200mm WM OBV=71.38 | 406mm STM INV=72.43 | 1.05m± | 73.98m |
| D | 200mm WM OBV=71.37 | 406mm STM INV=72.44 | 1.07m± | 73.99m |
| E | 200mm WM OBV=71.27 | 406mm STM INV=72.48 | 1.21m± | 74.10m |

NOTE 1: 300mm SANITARY SEWER AT CROSSING 'B' AS PER CITY STANDARD W25 FOR MINIMUM 500mm BARREL SEPARATION

| SEWER STRUCTURE TABLE | | | | |
|-----------------------------|--------------------------|----------------------|--------------|----------------|
| NEW STRUCTURE | STRUCTURE TYPE | COVER TYPE | TOP OF GRATE | INVERT |
| MHST01 | 1200mm OPSD 701.010 | CITY STANDARD S 24.1 | 74.01m | 72.58m |
| MHSA01 | 1200mm OPSD 701.010 | CITY STANDARD S 24 | 73.85m | 71.57m |
| WASTEWATER SAMPLING CHAMBER | 1200mm OPSD 701.010 | CITY STANDARD S 24 | 74.15m | 71.72m |
| CB1 | 600mmx600mm OPSD 705.010 | CITY STANDARD S 19.1 | 75.00m | SEE MECHANICAL |

| AREA DRAIN TABLE | | | |
|------------------|------------------------|--------------|--|
| NEW STRUCTURE | STRUCTURE / COVER TYPE | TOP OF GRATE | |
| AD1 | S19.1 | 73.89m | |
| AD2 | S19.1 | 74.00m | |
| AD3 | S19.1 | 74.50m | |
| AD4 | S19.1 | 74.50m | |
| AD5 | S30 | 74.75m | |
| AD6 | S30 | 74.50m | |
| AD7 | S30 | 74.60m | |
| AD8 | S30 | 74.45m | |



OWNER

145 HOBSONS LAKE DRIVE SUITE 106
HALIFAX, NOVA SCOTIA
B3S 0H9
(902) 404-3499

| | | |
|-----|------------|--|
| 17 | 2025-02-06 | ISSUED FOR CIVIL CCN-001 REV. 3 |
| 16 | 2025-02-03 | ISSUED FOR CIVIL CCN-001 REV. 2 |
| 15 | 2025-01-14 | ISSUED FOR CIVIL CCN-001 REV. 1 |
| 14 | 2025-01-13 | ISSUED FOR CIVIL CCN-001 |
| 13 | 2024-12-04 | ISSUED FOR CIVIL SI-003 |
| 12 | 2024-11-20 | ISSUED FOR CIVIL SI-002 |
| 11 | 2024-07-02 | ISSUED FOR COORDINATION - BUILDING CHANGES |
| 10 | 2024-02-05 | ISSUED FOR CIVIL SI-001 |
| 9 | 2024-01-05 | ISSUED FOR CONSTRUCTION |
| 8 | 2023-07-27 | ISSUED FOR BUILDING PERMIT REV. 1 |
| 7 | 2023-03-17 | ISSUED FOR TENDER |
| 6 | 2023-02-15 | ISSUED FOR BUILDING PERMIT |
| 5 | 2022-08-02 | PROGRESS SET R5 |
| 4 | 2022-02-16 | ISSUED FOR SITE PLAN CONTROL R4 |
| 3 | 2021-12-15 | ISSUED FOR SITE PLAN CONTROL R3 |
| 2 | 2021-10-04 | ISSUED FOR SITE PLAN CONTROL R2 |
| 1 | 2021-06-16 | ISSUED FOR SITE PLAN CONTROL |
| No. | YYYY-MM-DD | ISSUED |

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STAMP

PERMIT TO PRACTICE

KEY PLAN

MORRISON HERSHFIELD

200 - 2932 Baseline Road
Ottawa, Ontario, K2H 1B1
Tel: (613) 739-2910

PROJECT

1354 & 1376 CARLING AVENUE
DEVELOPMENT - PHASE 2

PLAN NUMBER

18501

APPLICATION NUMBER

D07-12-21-0092

DRAWING

SITE SERVICING PLAN

| | | | | | |
|----------|----|-------------|------------|---------|-------|
| DESIGN | DO | DATE | 2024-01-05 | SCALE | 1:200 |
| DRAWN | SC | PROJECT NO. | 210292799 | | |
| CHECKED | NC | DRAWING NO. | C901 | VERSION | |
| APPROVED | JF | | | | |