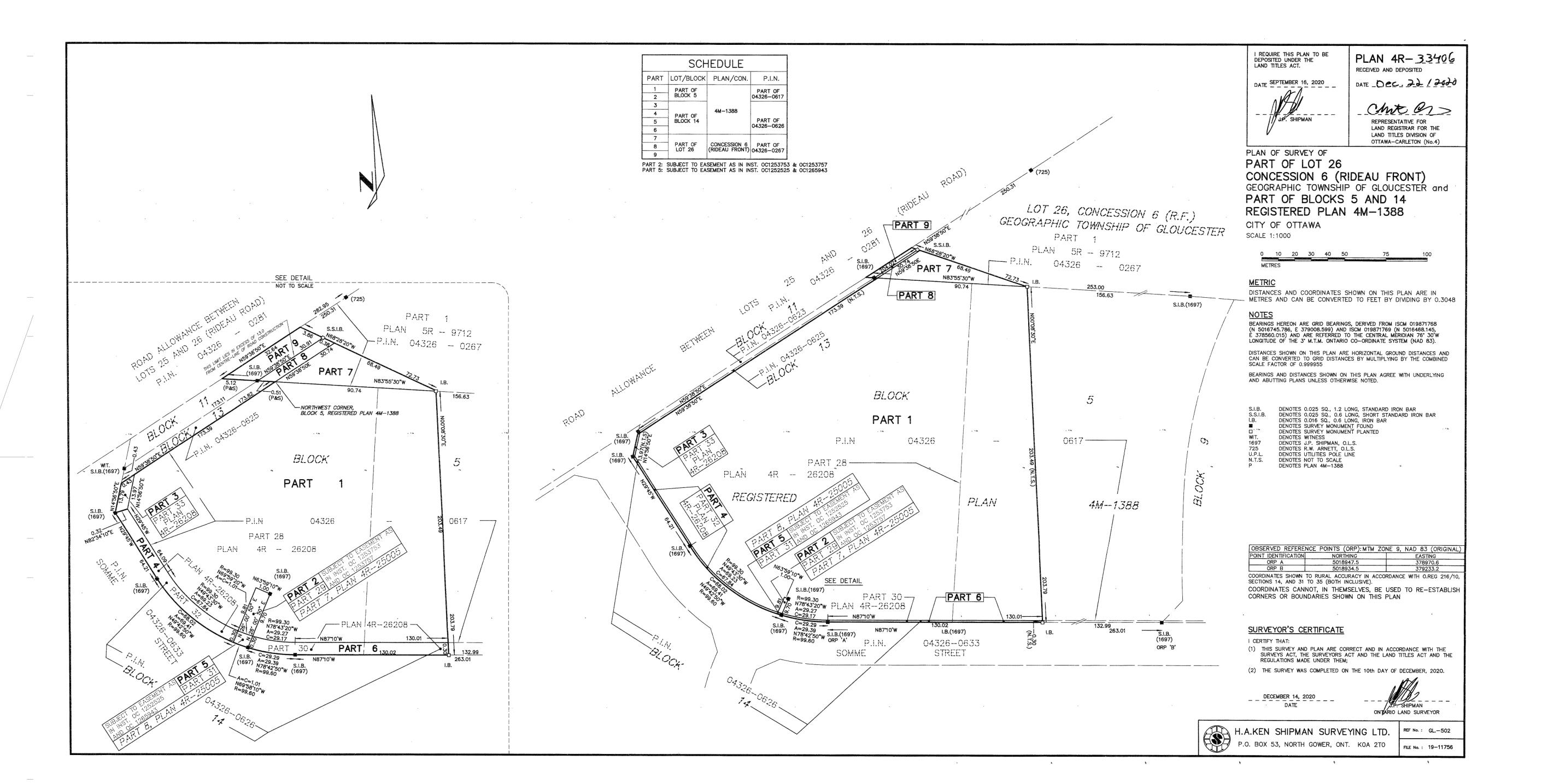
# FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

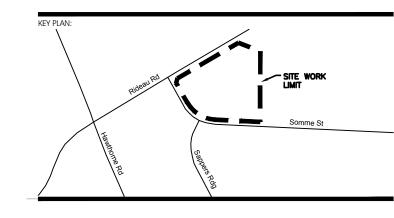
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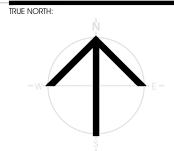
## LIST OF DRAWINGS

PLAN No:	DESCRIPTION
C001	COVER PAGE
C002	LEGAL PLAN
C003	TOPOGRAPHICAL SURVEY PLAN
C004	SEDIMENT AND EROSION CONTROL PLAN
C005	NOTES PLAN
C006A	GRADING PLAN
C006B	SECTIONS
C007	SITE SERVICING PLAN
C008	SEPTIC SYSTEM CONFIGURATION AND SECTIONS
C009	DETAILS PLAN
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# FASTFRATE





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CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-ING
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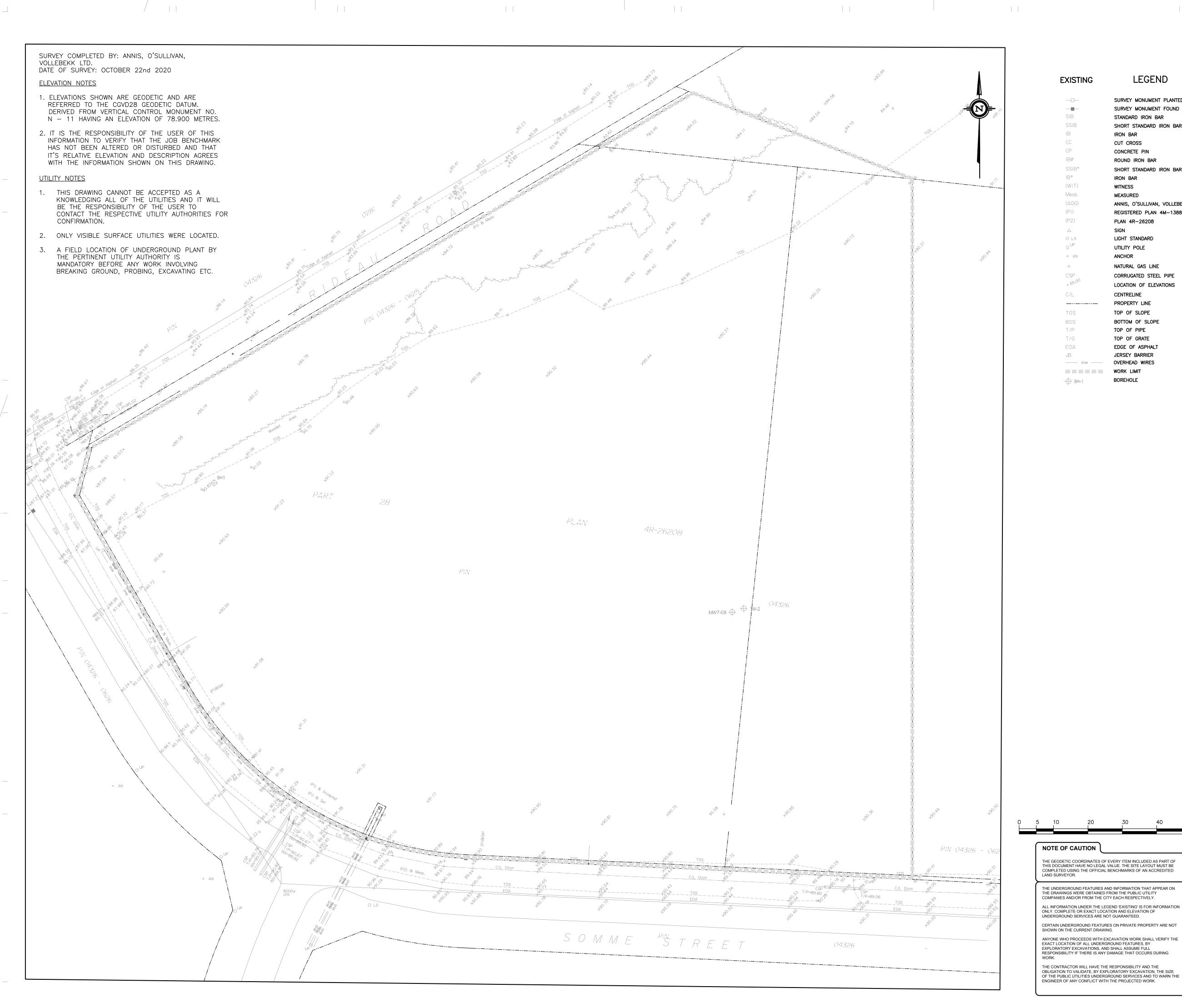
FASTFRATE OTTAWA WAREHOUSE
AND DISTRIBUTION FACILITY

SOMME ST. OTTAWA, ON

LEGAL PLAN

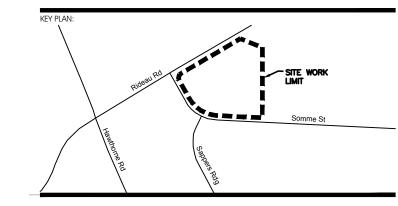
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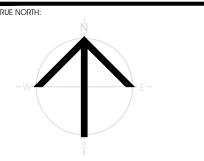
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CIVITAS ARCHITECTURE INC. OTTAWA, ON 14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9



FASTFRATE OTTAWA WAREHOUSE

AND DISTRIBUTION FACILITY SCALE: 1:500

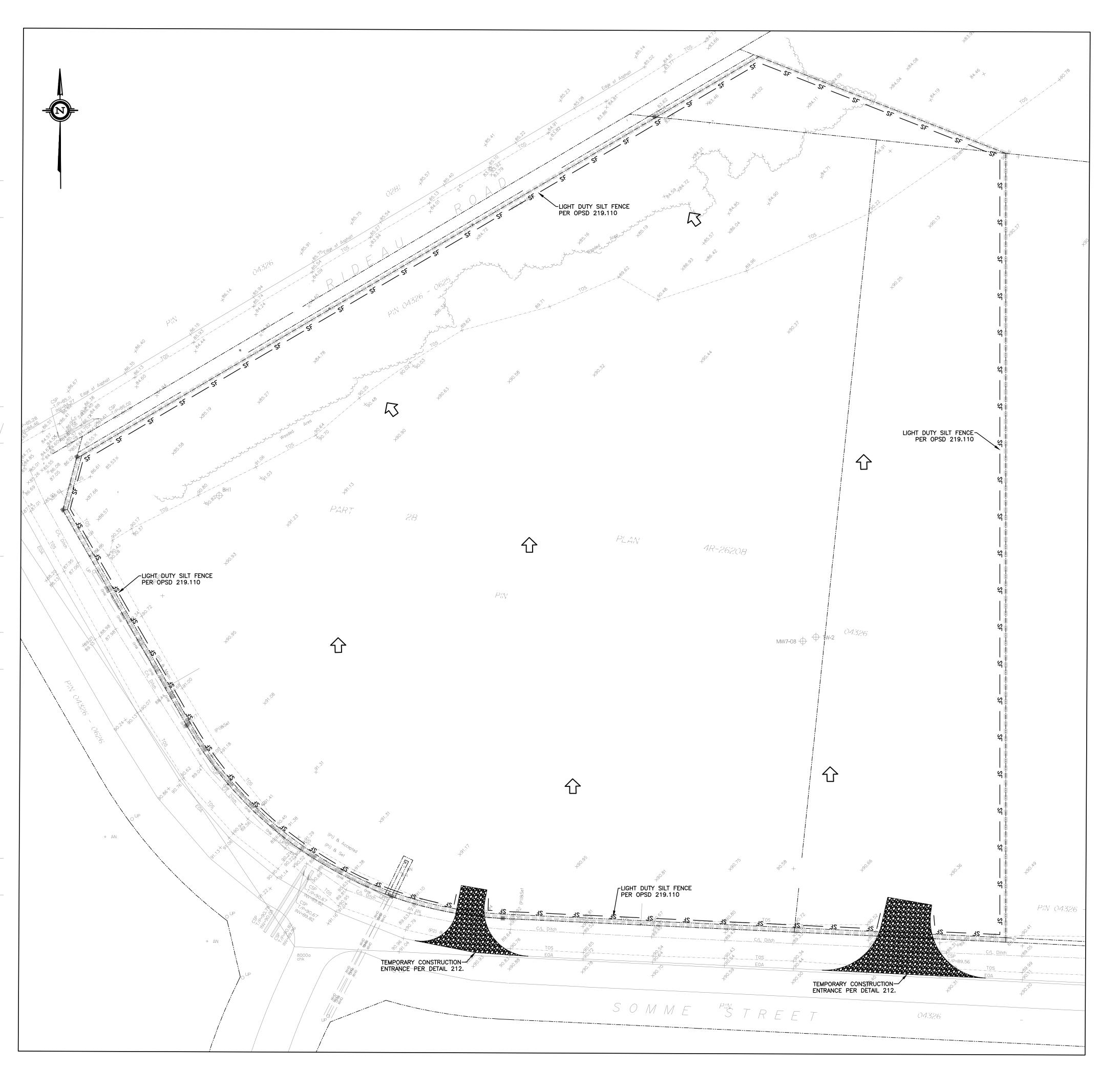
SOMME ST. OTTAWA, ON

**TOPOGRAPHICAL SURVEY PLAN** 

REVIEWED BY: APPROVED BY: PRINT DATE: REVISION NUMBER: ISSUED DATE:

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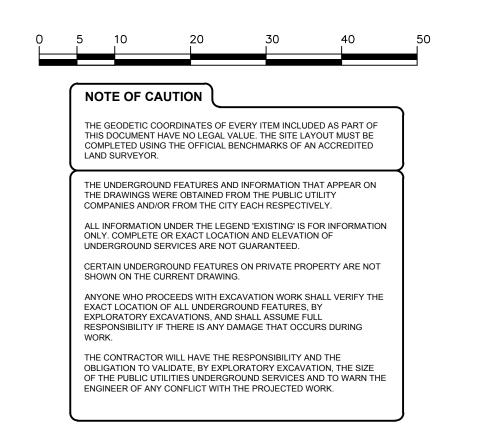
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#### SEDIMENT AND EROSION CONTROL - GENERAL NOTES

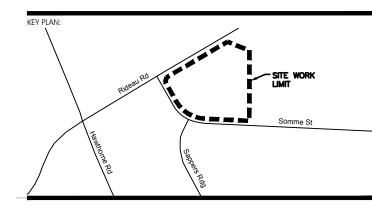
- 1.1. Unless otherwise indicated, all materials and construction methods to be in accordance with the requirements of the latest edition of the Ontario Provincial Standard Specifications and Drawings (OPSS and OPSD), the Ontario Ministry of Environment, Conservation and Parks (MECP), applicable Conservation authorities, the municipal standard specifications and drawings, and all other governing authorities as they apply.
- 1.2. Wherever standards, laws and/or regulations are mentioned they refer to their current versions,
- Specifically, sediment and erosion control measures to be constructed as per OPSS.MUNI 805.
- 1.4. The Contractor must implement best management practices and provide adequate sediment and erosion control measures during construction:
- Prevent soil erosion which can result from stormwater runoff or wind erosion during construction;
   Prevent sediment deposits in the storm sewer and/or collecting streams and;
- Prevent air pollution from dust and particulate matter.
- Provisions must be made for sediment and erosion control measures prior to stripping the site of vegetation and other deleterious materials. Measures such as phase stripping, vegetation buffer zones, silt fences, straw bales, sediment traps/basins, rock checks, etc. must be constructed and maintained in order to control sediment, as required by the provincial and municipal governing authorities.
- The Contractor must set up the measures shown on the plan, inspect them frequently and clean and repair or replace the deteriorated structures.

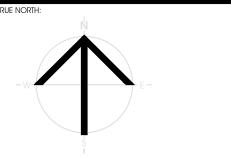
When storing soil on site in piles the Contractor must cover each pile with tarps, straw or a geotextile

- 8
  When the sediment and erosion control measures have to be removed in order to complete a portion of
- the work, these same measures must be reinstated.
- fabric to avoid fine particle transport by wind and/or streaming rain water.
- The light duty silt fence barrier must be installed as per OPSD 219.110.
- 1.10. At all times the Contractor must maintain the municipal access roads clean and free of sediments. When cleaning the access roads, the Contractor must take the necessary precautions to clear the surfaces covered with sediment prior to cleaning with water.
- 1.11. For dust control, Contractor to apply calcium chloride (Type I OPSS 2501 and CAN/CGSB-15-1) and water with equipment approved by the Owner's representative at rate in accordance to OPSS.MUNI 506 when directed by Owner's representative.
- At the end of the construction period, the Contractor is responsible for removal of the temporary sediment and erosion control measures and reconditioning the affected areas.
- 1.9. This plan is a "Living Document" which may be revised in the event that the control measures are not sufficient.









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PROJECT TITLE:

FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

SCALE: 1:500

SOMME ST. OTTAWA, ON

RAWING TITLE:

SEDIMENT AND EROSION CONTROL PLAN

DRAWN BY:
DATE:

REVIEWED BY:
APPROVED BY:
PRINT DATE:
ISSUED DATE:
AUGUST 13, 2021

CLIENT PROJECT #:

DRAWING NUMBER:

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REVISION NUMBER:

PROJECT #:

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the trunk of existing trees and shrubs; Prune tree branches, shrubs and roots as needed to

Machinery must be clean and kept clean to limit any grease or oil deposits inside the work area;

must include at least 30 m of absorbent booms, a box of absorbent pads and solid absorbent

In the event of a spill the Contractor must immediately report to the Spills Action Centre of the

The Contractor must ensure the following measures are implemented regarding the handling of

MECP at 1-800-268-6060. Hydrocarbons and contaminated soils will be recovered by a specialized

Concrete should either be mixed away from the site or should be prepared on paved surfaces if

carried out within 30 m of a watercourse or wetland and should take place outside of the work site;

All concrete trucks should collect their wash water and recycle it back into their trucks for disposal

Excess concrete must be disposed off-site at a location that meets all regulatory requirements;

all elements to be removed and demolished. No claim will be accepted due to a poor evaluation of the

The Contractor must protect and maintain in service the existing works which must remain in place. If

The Contractor must entirely remove the demolition wreckage from the construction site in accordance

The Contractor must discard recyclable demolition materials in collaboration with a regional

The Contractor is responsible for locating existing public utilities and (if required) submit a request for

the interruption of public utility services, such as gas, telephone, power, cable, sewers, watermain, etc.

2.8. Unless otherwise specified, all materials, products and others coming from the demolition belong to the

Surfaces and works located outside of the construction work limit must be reinstated as they were

All granular fill must be placed in maximum 200 mm thick loose lifts and compacted using suitable

All soft, wet or disturbed areas revealed under surface compaction must be removed to a minimum

depth of 500 mm and replaced with compacted suitable subgrade fill (i.e. OPSS Granular 'B' Type II

material) and an approved non-woven geotextile per OPSS 1860 as directed by the Geotechnical

Engineer. Transition around sub-excavations where backfill and native material are not of similar nature.

(QP, as per the definition under O.Reg 153/04), characterize the soil and dispose off-site all materials

OPSS.MUNI 180. Prior to the start of work the Contractor must provide the name and location of the

Contractor must obtain from the Receiving Sites QP documents confirming that the site has the right to

accept the contaminated material. During the work, the Contractor must provide the Consultant copies

The Contractor is responsible for providing a confirmation that the imported material used as subgrade

fill is free of any contaminants, as per O.Reg 153/04, such as Petroleum Hydrocarbons (C10-C50),

3.5. If contaminated material is encountered during the work, the Contractor must retain a Qualified Person

recycling company. The Contractor must be able to provide proof, upon request, that the materials

with the requirements of the MECP and in accordance with OPSS.MUNI 180 and OPSS.MUNI 510.

the satisfaction of the Owner's representative and without additional expense to the Owner.

2.4. The Contractor must carry out necessary saw cuts even if they are not shown on the drawings.

2.3. The Contractor must perform the nessessary clearing and grubbing in accordance with

material (powder or granules). The kit must be stored near the location of work and machinery, and

complete the work.

OPSS.MUNI 201.

request, copies of the disposal tickets.

before beginning of work.

methods as per the requirements.

of all reports signed by the Receiving Site's QP.

4. EXCAVATION AND BACKFILL

O.REG. 406/19.

'B' Type II Material.

vibrations be limited

2.7. The Contractor must conduct all removals required to make the work complete.

The existing Well will be abandoned in accordance with O.Reg 903.

hauled off site and disposed as per provincial and municipal regulations.

shall be sloped at 5 horizontal to 1 vertical, within 1.8 m of finished surface

chromium, copper, tin, manganese, molybdenum, nickel, lead and zinc.

4.1. Subgrade preparation must be completed as per Section "3.0 General Subgrade Preparation".

any buildings, paved areas, pipe bedding, and other settlement sensitive structures.

compacted in thin lifts to a minimum density of 98% of their respective SPMDD.

construction operations to maintain a cooperative environment with the residents.

and 40 Hz). These guidelines are for current construction standards.

4.2. The management of excess materials to comply with OPSS.MUNI 180 and any excess soils with

Topsoil and deleterious fill, such as those containing organic materials, must be stripped from under

Non-specified existing fill along with on-site excavated soil can be used as general landscaping fill

where settlement of the ground surface is of minor concern. These materials should be spread in thin

lifts and at least compacted by the tracks of the spreading equipment to minimize voids. If these

Structural fill used for grading beneath the footings of buildings, building floor slabs, sidewalks,

pavements and slab on gradesigns and light standards must consist of OPSS Granular 'A' or Granular

Construction operations could cause vibrations, and possibly, sources of nuisance to the community.

Therefore, means to reduce the vibration levels as much as possible must be incorporated in the

The following construction equipments could cause vibrations: piling equipment, hoe ram, compactor,

dozer, crane, truck traffic, etc. Vibrations, caused by blasting or construction operations could cause

detrimental vibrations on the adjoining buildings and structures. Therefore, it is recommended that all

Two parameters determine the recommended vibration limit, the maximum peak particle velocity and

the freguency. For low freguency vibrations, the maximum allowable peak particle velocity is less than

that for high frequency vibrations. As a guideline, the peak particle velocity should be less than 15 mm/s

between frequencies of 4 to 12 Hz, and 50 mm/s above a frequency of 40 Hz (interpolate between 12

Considering there are several sensitive buildings in close proximity to the subject site, consideration to

lowering these guidelines is recommended. These guidelines are above perceptible human level and, in

some cases, could be very disturbing to some people. A pre-construction survey is therefore required to

minimize the risks of claims during or following the construction of the proposed building.

materials are to be used to build up the subgrade level for areas to be paved, they should be

Birds sting period, which is April 15 to August 15).

risk of ground contamination from petroleum products:

sight on the work site for the duration of the construction period;

kept within easy reach at all times to ensure a rapid response;

only small quantities are required (i.e. minor repairs)

off-site at a location meeting all regulatory requirements.

detected, the necessary corrective action must be taken immediately:

1.3. Wherever standards, laws and/or regulations are mentioned they refer to their current versions, modifications included.

1.4. The boreholes and test pits shown on the plan are for information purposes only. Their location on the plan is approximate. The Contractor must refer to the boreholes and test pit records to obtain information about observed stratigraphy on site.

1.5. The Contractor is responsible for obtaining all permits required to complete all works and bear cost of same, including road cut permit and water permit and their associated costs.

1.6. The Contractor is responsible for the coordination of his activities with others on site.

1.7. The location of existing underground municipal services, wells, and public utilities as shown on the plans are approximate. The Contractor must determine the exact location, size, material and elevation of all existing utilities (on-site and off-site) prior to any excavation work. Damage to any existing services, wells and/or existing utilities during construction, whether or not shown on the drawings must be repaired by the Contractor at his own expense.

1.8. Site preparation includes clearing, grubbing, stripping of topsoil, demolition, removal of unsuitable materials, cut, fill and rough grading of all areas to receive finished surfaces.

1.9. All material must be compacted as per the requirements of the governing authority and be approved by 2. DEMOLITION AND REMOVALS the Consultant prior to delivery to the site.

1.10. Compaction must conform to the following requirements: Exposed subgrade & building pad preparation:

95% Standard Proctor maximum dry density (SPMDD)

Granular subbase foundations: 100% Standard Proctor maximum dry density (SPMDD)

Granular base foundations:

100% Standard Proctor maximum dry density (SPMDD)

Asphalt pavement: As per OPSS.MUNI 310

Roller compacted concrete pavement

98% Mix Design Density Subgrade fill (pavement areas - OPSS Select Subgrade Material):

98% Standard Proctor Maximum Dry Density (SPMDD)

Structural fill (building footprints, foundation slabs, OPSS Granular 'A' or Granular 'B' Type II Material):

100% Standard Proctor Maximum Dry Density (SPMDD)

1.11. If groundwater is encountered during construction, dewatering of excavations could be required as per OPSS.MUNI 518. It is assumed that groundwater may be controlled by sump and pumping methods. As required under the "Ontario Water Resources Act (OWRA)", the Contractor must register all water taking activities on Ontario's "Environmental Activity and Sector Registry (EASR)" if water taking exceeds 50,000 I/day, and obtain a "Permit to Take Water (PTTW)" if water taking exceeds 400,000 l/day. Furthermore, Contractor must provide all necessary measures required to ensure dewatering operations does not affect in any way the integrity of the existing surrounding buildings and must plan his work accordingly. Water Taking and Discharge Plan to be prepared by a Qualified Person as stipulated under O.Reg. 63/16.

1.12. Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements and as follows:

1.12.1. Provide flocculation tanks, settling basins, or other treatment facilities to remove suspended solids or other materials to within the required parameters of the receiving body before discharging to storm sewers, watercourses or drainage areas.

1.12.2. Before discharging to storm sewers, watercourses or drainage areas, discharge water must be sampled and tested to ensure quality requirements in accordance with City of Ottawa Sewer Use By-Law No. 2003-514 and the MECP are adhered to. The Contractor is to perform all additional sampling and testing as required by City of Ottawa. All associated fees to be paid by the

Where water is not suitable for discharge into the adjacent storm sewers, watercourses or drainage areas it must be discharged into the on-site sanitary sewer collection system, or disposed off-site at an approved disposal facility.

1.13. The Contractor must maintain benchmarks and landmark references as is. Otherwise, these references will be repositioned by a certified land surveyor at the Contractor's expense.

1.14. The Contractor is the only person in charge of safety on the building site. The Contractor is responsible for providing adequate protection of the workers, other personnel and the general public, protection of materials, as well as maintaining in good condition the completed works and works to be completed. The Contractor must supply, install and maintain an appropriate safety fence along the work perimeter until the work is complete.

The Contractor must provide at any time: - A sufficient number of barriers, posters, guards and others to ensure safety;

Necessary conveniences for the completion of the work such as heating, lighting, ventilation, etc.

1.15. Temporary excavations in the overburden must be completed as per the requirements of the Occupational Health and Safety Act (OHSA), O. Reg. 213/91, Part III - Excavations. The side slopes of excavations in the soil and fill overburden materials should either be cut back at acceptable slopes or should be retained by shoring systems from the star of the excavation until the

structure is backfilled. The excavation side slopes above the groundwater level extending to a maximum depth of 3 m should be cut back at 1H:1V or flatter. The flatter slope is required for excavation below groundwater level. The subsurface soil is considered to be Type 3 soil according to the Occupational Health and Safety Act and Regulations for Construction Projects. Slopes in excess of 3 m in height should be periodically inspected by the geotechnical consultant in order to detect if the slopes are exhibiting signs of distress.

1.16. The Contractor must pace deliveries and removals in order to minimize and control stockpiles.

1.17. Stockpile material must be stored away from excavations at a distance at least equal to the depth of the excavation. Construction traffic should be limited near open excavation.

1.18. Cleanliness on the site The Contractor must clean roadways at his own cost as directed by the Owner's representative; All site roads and walkways to and from the construction zone must be kept clean at all times, from

mud, dirt, granular material, debris, etc.; The Contractor must leave the work area clean at the end of each day;

Materials and equipment must be laid out in an organized and safe manner;

All material, equipment and temporary structures which are no longer necessary for the execution of the Contract must be removed from the site;

If required the Contractor must use screens, bulkheads, or any other recognized means in order to

reduce noise, dust, interference, obstruction, etc., in conformity with the requirements of the provincial and municipal authorities having jurisdiction.

1.19. During the construction period the Contractor is responsible for installing and maintaining temporary traffic signage, including traffic signs, traffic markings and temporary traffic lights, and flagmen, as 4.6. required by the Owner, the Consultant, the Municipality, the MTO, and other governing authorities.

1.20. The Contractor must control surface runoff from precipitation during construction.

1.21. Where trees and other vegetation are proposed within close proximity to hard surfacs (i.e. sidewalks or pavement structures) it is recommended that the vegetation be panted in CU-Structural Soils or approved equivalent. Under the areas of hard surfaces, the CU soil should be compacted to 100% SPMDD using suitable compaction equipment. The CU-structural soil must extend at least 1.0 m below grade and extend to a 3.0 m radius around the trees/vegetation

1.22. Protection of existing trees and shrubs:

- The contractor must ensure that the existing trees and shrubs that are to remain on site will be protected throughout the construction phase in order to minimize the risk of damaging the trunks and branches and to avoid the compaction of the roots. As required, the Contractor must coordinate his work with other professionals to ensure that the

existing tree and shrub protection measures are in place prior to any other work and that these measures are maintained until the work is complete;

The Contractor must protect the existing trees in accordance with OPSS.MUNI 801 and OPSD

The Contractor must define paths for heavy machinery before construction to avoid compaction of the roots of existing trees and shrubs;

· The Contractor cannot store material at the base of trees and shrubs; The Contractor cannot backfill 5. PAVEMENT STRUCTURES, CURBS, AND SIDEWALKS

5.1. Construction of granular foundation must conform to OPSS.MUNI 314. The Contractor must perform any tree cutting prior to April 15 (i.e. outside of the core Migratory

5.2. Granular materials used on site must conform to the requirements of OPSS.MUNI 1010.

1.23. The Contractor must ensure the following mitigation measures are implemented in order to reduce the Road cut reinstatement as per City of Ottawa Detail R10 with surface course key.

Where the proposed pavement structure abuts the existing pavement, the pavement structure should The list of persons and agencies to contact in the event of an emergency must be posted in plain match the existing pavement layers.

Construction of asphalt must conform to OPSS.MUNI 310 and OPSS.MUNI 313. Frequent inspections must be performed to detect any oil, fuel, grease or other leaks. If a leak is

Paving must not be carried out if the roadbed is frozen or wet · An emergency kit for the recovery of petroleum products must be kept on site at all times. The kit

> The granular grade must be free of standing water at the time of hot mix asphalt placement. The surface of a pavement upon which hot mix asphalt is to be placed must be dry at the time of hot mix asphalt placement. Following the final compaction of a hot mix asphalt course, a 4 hour minimum time laps must be respected before placing a new new hot mix asphalt course. Additionally, the temperature of the previous course must be 50 °C or less.

> 5.5.3. As per OPSS.310.07.06.02, the asphalt base course must not be placed unless the air temperature at the surface of the road is a minimum of 2°C and rising.

As per OPSS.310.07.06.02, the asphalt surface course must not be placed unless the air temperature at the surface of the road is a minimum of 7°C and rising.

Asphalt concrete material must conform to OPSS.MUNI 1150 for Hot Mix Asphalt and OPSS.MUNI The washing of concrete trucks and other equipment used for mixing concrete should not be 1151 for Superpave and Stone Mastic Asphalt Mixtures. Minimum Performance Graded (PG) 58-34 asphalt cement must be used for this project.

5.7. Asphalt mix design must be reviewed and approved by a Geotechnical Engineer before paving.

5.8. Concrete curbs must conform to OPSS 353.MUNI.

2.1. The Contractor must visit the premises in order to be fully aware of existing conditions on site, including 5.9. Concrete Toe-wall to be per OPSD 3120.100 Type I

5.10. Elevation at top of concrete curbs to be 150 mm above the asphalt, unless otherwise indicated on the

they are damaged, the Contractor must immediately make the replacements and necessary repairs to 5.11. Concrete sidewalks must conform to OPSS.MUNI 351.

duration of the curing period.

5.12. For all concrete placement during cold weather Contractor must place material in accordance to

5.12.1. When ambient air temperature is 5°C or less, forms for concrete work must be left in place for the

When the ambient air temperature is below 0°C at the time of placing, components must be cured

with moisture vapour barrier. Contractor must conform to OPSS.MUNI 904.07.11 for Control of Temperature when subjected to

were properly recycled and that the chosen recycling company is recognized in the recycling field. All other demolition materials must be disposed off-site at authorized licensed landfills and in conformity with the applicable laws and regulations. The Contractor must be able to provide, upon 5.13. Construction of Roller-Compacted Concrete Pavement as follows: Subgrade to be prepared as specified, and contoured for efficient drainageConstruction of

> Roller-Compacted Concrete Pavement as follows: Subgrade to be prepared as specified, and contoured for efficient drainage

Concrete should be transported in dump trucks and placed using asphalt pavers. If placed in more than one lift, subsequent lift should be placed within 60 minutes of placing

the bottom lift. Roller compacted concrete must be compacted using 10 ton dual drum vibratory roller within 15 to 45 minutes of placement with 4 to 6 passes, until lift deflects uniformly under roller, and

no pumping, shiny or pasty surface is observed. The desired density is 98% of the mix design density.

Transverse saw joints must be placed at 5 m on centres. Longitudinal saw joints must be placed at 0.2 m from the edges, and every 8m subsequently

6. BUILDING PAD PREPARATION

3. GENERAL SUBGRADE PREPARATION 6.1. The Building Pad shall be prepared prior to Dynamic Compaction (DC) to a level that will allow the finished grade to be 450mm below the Finish Floor Elevation (FFE). The Contractor shall assume that Earth removal must be inspected by an experienced Geotechnical Engineer to ensure that all the total settlement after DC will be 300mm. Therefore, the Building Pad finished grade Prior DC shall unsuitable materials are removed prior to the placement of fill, including concrete and/or others, and to be 91.850m confirm the compaction degree and condition of the founding soils. All unsuitable materials must be

6.2. The Building Pad footprint shall extend 2m past the perimeter of the proposed building footprint. Subgrade must be approved by experienced geotechnical personnel before proceeding with placement

The final layer of the building pad (Working Pad) shall consist of compacted 600 mm of Granular B

The Building Pad shall be excavated to 91.850m minus (-) 600mm = 91.250m in Cut areas and or raised to 91.250m plus (+) 600mm = 91.850m in Fill areas.

using excavated surplus materials from the site as per the Excavated Materials Management 6.6. Fill must be place in lifts no greater than 200mm thick and compacted to the specified density using

In addition to the 600mm Granular pad specified above, in fill areas, the Building Pad shall be raised

suitable compaction equipments from the contaminated area in accordance with the requirements of the MECP O.Reg 406/09 and The building pad preparation must include a 20 m wide temporary access road (up to the property line)

around the building and, between the building and the access street. The contractor must be intended Receiving Site (s) where the contaminated materials will be disposed to the Consultant. The responsible for maintaining the temporary access roads in good and tidy condition at all times to the satisfaction of the Owner and / or Consultant. All temporary access roads constructed within future pavement areas must consist of compacted granular materials as per pavement infrastructure details. All temporary access roads constructed within future landscaped areas must consist of compacted

OPSS Select Subgrade Material to allow heavy equipment traffic. Polycyclic Aromatic Hydrocarbons (PAH), and metals like mercury, silver, arsenic, cadmium, cobalt, 6.8. If the building is constructed during the winter period, the Contractor must be responsible for the snow removal and spreading of abrasive throughout the construction work by the building contractor and his

7. EXCAVATED MATERIAL MANAGEMENT

7.1. During site preparation excavation work, the Contractor shall ensure that the excavated existing fill material remains on-site as much as possible and is incorporated within its work. All surplus excavation of existing Fill material shall be managed as per the following priorities

Surplus excavated materials may come from excavation required to construct the proposed ponds and parking areas at specified finished elevations.

First, surplus excavated materials shall be incorporated within the Building Pad Preparation to raise the Pad to the required elevation and allowing for the Working Pad layer mentioned at 6.3

Second, surplus materials shall be used to backfill the Vegetated Retaining wall.

The remaining surplus material shall be remove off-site as per the specification herein.

**SERVICES NOTES** 

1. MUNICIPAL SERVICES - GENERAL

1.1. Unless otherwise indicated, all materials and construction methods to be in accordance with the requirements of the latest edition of the Ontario Provincial Standard Specifications and Drawings (OPSS and OPSD), the Ontario Ministry of Environment, Conservation and Parks (MECP), applicable Conservation Authorities, the municipal standard specifications and drawings, and all other governing authorities as they apply.

Wherever standards, laws and/or regulations are mentioned they refer to their current versions,

1.3. The boreholes and test pits shown on the plan are for information purposes only. Their location on the plan is approximate. The Contractor must refer to the boreholes and test pit records to obtain information about observed stratigraphy on site.

1.4. The location of existing underground municipal services and public utilities as shown on the plans are 3.4approximate. The Contractor must determine the exact location, size, material and elevation of all existing utilities (on-site and off-site) prior to any excavation work. Damage to any existing services and/or existing utilities during construction, whether or not shown on the drawings must be repaired by the Contractor at his own expense.

1.5. The Contractor is responsible for obtaining all permits required to complete all works and bear cost of same, including water permit and associated costs.

1.6. The Contractor is responsible for the coordination of his activities with others on-site.

1.7. Terminate and plug all service connections at 1.0 meter from edge of the building.

1.8. The Contractor must complete compaction as per OPSS.MUNI 501 and note the following requirements for service trenching:

95% Standard Proctor Maximum Dry Density Pipe bedding Trench backfill and pipe cover 95% Standard Proctor Maximum Dry Density

1.9. The Contractor is responsible for making or arranging all connections to the existing sewers as per municipal requirements. Prior to connection, the Contractor must provide, to the Engineer and the City for approval, all test results performed on the internal services. Test results must include C.C.T.V. inspection of sewers, infiltration/exfiltration tests for sewers and manholes, deformation tests of sewers, watermain hydrostatic leakage test, flushing and disinfecting operations, and bacteriological water 3.12. Storm manholes and manhole/catchbasins to be as per OPSD 701.010 and must be equipped with

1.10. The Contractor must determine the exact invert (geodetic elevation), diameter and construction material 3.13. Storm manhole frame and cover to be as per OPSD 401.010 Type "A" closed cover. of the existing conduits at the proposed connections. He must also carry out, if necessary, exploratory excavations in order to determine the exact location and inverts of existing duct banks. This information must immediately be provided to the Engineer prior to start undertaking any municipal services work

3.14. When a minimum cover of 1.5 meters is not reached, frost protection is required. and a 48 hour period must be allocated to the Engineer for design review.

1.11. The Contractor is responsible for all excavation, backfill and reinstatement of all areas disturbed during construction to existing conditions or better and all associated works to the satisfaction of the Engineer 4. SANITARY SEWER and municipal authorities.

Asphalt reinstatement must be in accordance with OPSS.MUNI 310.

Landscape areas to be reinstated with 150 mm of topsoil and sod in accordance with OPSS.MUNI 802 and OPSS.MUNI 803.

1.12. It is recommended that a trench box be used at all times to protect personnel working in trenches with steep or vertical sides. Services are expected to be installed by "cut and cover" methods and excavations should not remain open for extended periods of time.

1.13. The pipe bedding for sewer and water pipes must consist of at least 150 mm of OPSS Granular A material The material must be placed in maximum 300 mm thick lifts and compacted to a minimum of 95% of its SPMDD. The bedding material should extend at least to the spring line of the pipe.

thick loose lifts and compacted to a minimum of 95% of its SPMDD. 1.15. Where hard surface areas are considered above the trench backfill, the trench backfill material within the frost zone (about 1.8 m below finished grade) must match the soils exposed at the trench walls to

to at least 300 mm above the obvert of the pipe. The material must be placed in maximum 300 mm

minimize differential frost heaving. The trench backfill must be placed in maximum 300 mm thick loose lifts and compacted to a minimum of 95% of the material's SPMDD..

1.16. Dewatering of pipeline, utility and associated structure in rock excavations to be completed as per 4.7. Adjustment or rebuilding of sanitary manholes to be completed as per OPSS 408. OPSS.MUNI 403.

1.17. Trenching, backfilling and compacting must conform to OPSS.MUNI 401

4.10. Sanitary manholes to be as per OPSD 701.010 and must be equipped with safety platform as per Watermain, water service connections and associated appurtenances must be constructed in accordance with the Ontario Provincial Standard Specifications. Specifically watermains must conform

Watermain must be constructed as per OPSS.MUNI 441 and specifically OPSD 802.010 for earth compacted to 95% Standard Proctor Maximum Dry Density.

2.3. Watermain pipe materials must be class 150 PVC DR 18 or approved equivalent, unless otherwise shown on the Drawings. Materials must conform to OPSS 441.

All watermain must be installed with a minimum of 2.40 meters cover from finished grade. Where a minimum of 2.40 meters cover is not reached, thermal insulation is required as per City of Ottawa 4.14. When a minimum cover of 1.8 meters is not reached, frost protection is required. Details W22 and W23.

2.5. Watermain service connections must be installed a minimum of 2.40 meters from any catchbasin, manhole or object that may contribute to freezing. Thermal insulation must be installed as per City of Ottawa Details W22 and W23 where 2.40 meters of separation cannot be achieved.

2.6. Cathodic protection (if required) must be installed as per City of Ottawa Details W40 and W42.

2.7. Restraints must be as per City of Ottawa Details W25.5 and W25.6.

All valves must open in a counter clockwise direction;

Designed for cold water working pressure of 1035 kPa;

Types must be one of the following: Valves less than 75 mm to be brass or bronze gate valves;

2.8. Valves to be installed as per OPSS 441 and conform to the following:

Valves greater than or equal to 75 mm, and less than or equal to 300 mm, to be cast or ductile iron

Valves greater than 300 mm up to and including 500 mm to be gate or butterfly valves; Valves greater than 500 mm to be butterfly valves.

2.9. A continuous 12 gauge copper tracer wire must be installed over all watermains. Tracer wire must be

2.10. Valve box assembly to be as per City of Ottawa Detail W24.

tied to all fire hydrants.

Contract Administrator.

2.11. When a watermain pipe crosses a sewer pipe, installation must be as per City of Ottawa Detail W25.2.

2.12. Watermains must be thoroughly flushed and cleaned to remove all dirt and debris prior to the disinfection process.

2.13. All watermains must be hydrostatically and bacteriologically tested as per provincial and municipal regulations. It is the Contractor's responsibility to ensure that all requirements are followed.

supervision of the Contract Administrator. The test section will be either a section between valves or the completed watermain. Test pressure to be 1035 kPa. 2.15. Flushing and Disinfecting to be completed as per OPSS 441.07.25 under the supervision of the

2.14. Hydrostatic testing to be completed as per OPSS 441.07.24. Testing must be completed under the

2.16. Contractor must coordinate the supply and installation of water meter and remote water meter for the building with the mechanical enginee

3. STORM SEWER

Storm sewers, laterals and storm service connections must be constructed in accordance with the Ontario Provincial Standard Specifications. Specifically storm sewers must conform to OPSS.MUNI

PVC storm sewer material to conform to OPSS.MUNI 1841. PVC storm sewers to be installed as per OPSD 802.010 for earth excavation and 802.013 for rock excavation. Bedding and cover material to be OPSS Granular 'A'.

The allowable deflected pipe diameter when using flexible pipe is as follows: 3.3.

Pipes 100 to 750 mm: 7.5% of the base inside diameter of the pipe Greater than 750 mm: 5.0% of the base inside diameter of the pipe

Final backfill material for storm sewers must be approved native material or select subgrade material in conformance with OPSS.MUNI 212.

Storm sewer pipes must be type PVC SDR-35, unless noted otherwise on the drawings.

Culverts, when double barreled, must be spaced laterally by 300mm between each barrel.

provided to the Engineer in two (2) copies and the C.C.T.V. inspection in DVD format only. Storm manholes, manhole/catchbasins, catchbasins, ditch inlets and valve chambers to be installed as

All storm sewers to be C.C.T.V. inspected by the Contractor as per OPSS.MUNI 409. Report must be

Adjustment or rebuilding of manholes, manhole/catchbasins, catchbasins, ditch inlets and valve chambers to be completed as per OPSS 408.

3.10. Excavating, backfilling, and compacting for manholes, manhole/catchbasins, catchbasins, ditch inlets and valve chambers to be completed as per OPSS 402.

Storm manhole, manhole/catchbasin and catchbasin excavations to be backfilled with OPSS Granular

'B' compacted to 99% Standard Proctor Maximum Dry Density (SPMDD). Joints between sections must

be wrapped in a non-woven geotextile.

safety platform as per OPSD 404.020 when exceeding 5.0 m to the lowest invert.

3.15. For building roof drain sizes and location refer to architectural and mechanical drawings.

per OPSS 407.

Sanitary sewers, laterals and service connections must be constructed in accordance with the Ontario Provincial Standard Specifications. Specifically sanitary sewers must conform to OPSS.MUNI 410.

PVC sanitary sewer pipe material to type PVC SDR-35, conforming to OPSS.MUNI 1841. PVC sanitary sewers to be installed as per OPSD 802.010 for earth excavation and 802.013 for rock excavation. Bedding and cover material to be OPSS Granular 'A'.

The allowable deflected pipe diameter when using flexible pipe is as follows:

Pipes 100 to 750 mm: 7.5% of the base inside diameter of the pipe

1.14. The cover material, which must consist of OPSS Granular A, will extend from the spring line of the pipe 4.4. Final backfill material for sanitary sewers must be approved native material or select subgrade material in conformance with OPSS.MUNI 212.

> All sanitary sewers to be C.C.T.V. inspected by the Contractor as per OPSS.MUNI 409. Report must be rovided to the Engineer in two (2) copies and the C.C.T.V. inspection in DVD format only.

4.6. Sanitary manholes to be installed as per OPSS 407.

Greater than 750 mm: 5.0% of the base inside diameter of the pipe

4.8. Excavating, backfilling, and compacting for sanitary manholes to be completed as per OPSS.MUNI 402.

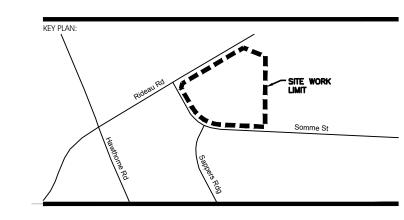
4.9. Sanitary manholes to be backfilled with OPSS Granular 'B' compacted to 99% Standard Proctor Maximum Dry Density (SPMDD). Joints between sections must be wrapped in a non-woven geotextile.

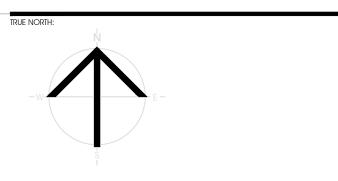
OPSD 404.020 when exceeding 5.0 m to the lowest invert. 4.11. Sanitary manhole frame and cover to be as per OPSD 401.010 Type "A" closed cover.

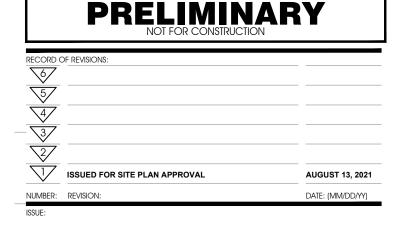
excavations and 802.013 for rock excavation. Bedding and cover material to be OPSS Granular 'A' 4.12. A maintenance hole drop structure tee is to be used as per OPSD 1003.010 when the drop from the inlet invert to the outlet invert is greater than 600 mm and less than 1200 mm. A drop structure wye is to be used as per OPSD 1003.020 when the drop exceeds 1200 mm.

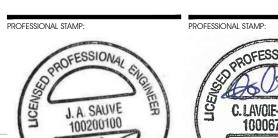
> 4.13. Sanitary service connections to rigid main sewer pipe to be as per City of Ottawa Detail S11. Connections to flexible main sewer pipe to be as per City of Ottawa Detail S11.1

4.15. Benching is required inside the concrete bottom of sanitary manholes as per OPSD 701.021.











WWW.CIVITAS-INC.CA



CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9

AND DISTRIBUTION FACILITY **SCALE: NONE** 

SOMME ST.

OTTAWA, ON

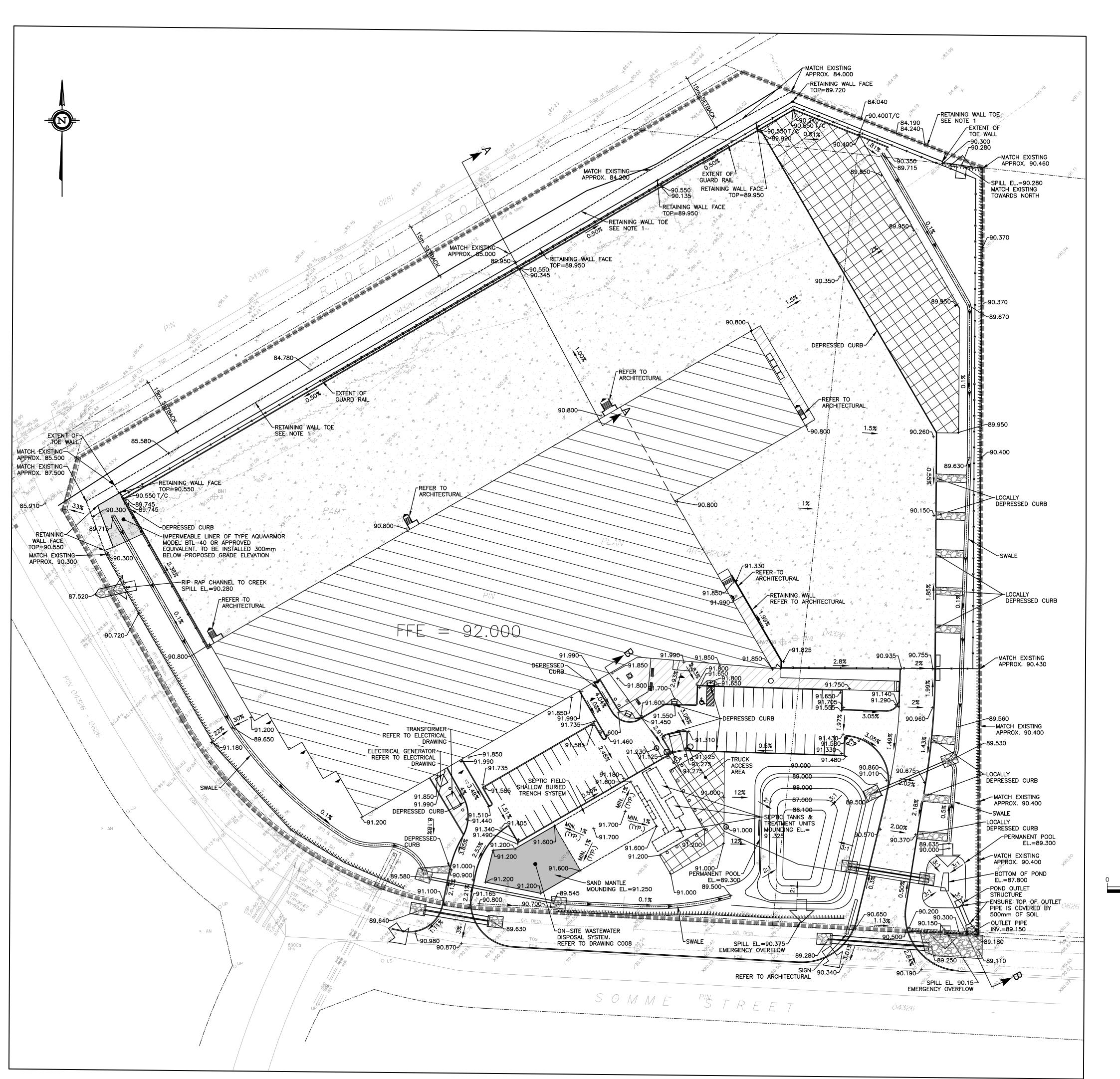
FASTFRATE OTTAWA WAREHOUSE

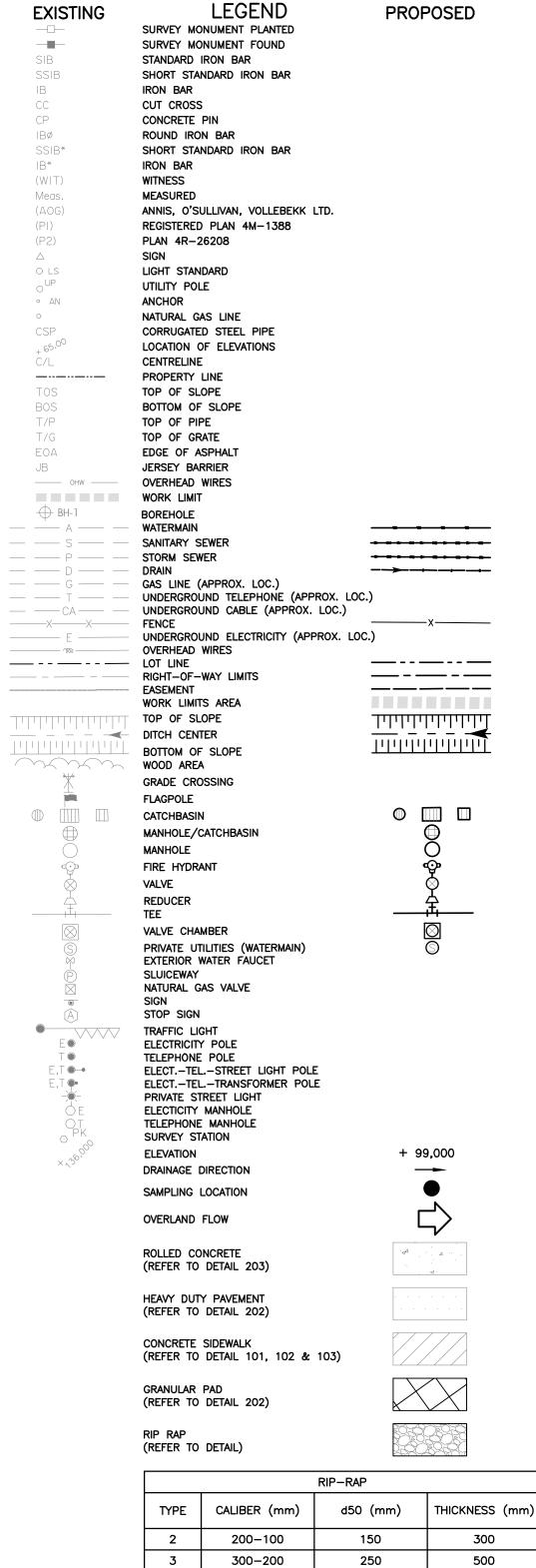
REVIEWED BY APPROVED BY: PRINT DATE:

ISSUED DATE: AUGUST 13, 2021 CLIENT PROJECT #: A001083

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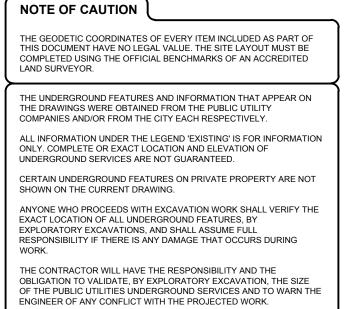
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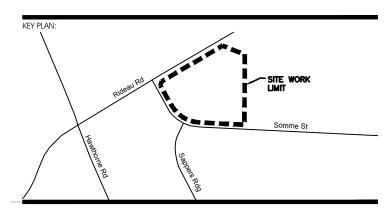


NOTES

1. TOE OF RETAINING WALL SHOWN AT WIDEST LOCATION. LOCATION VARIES WITH HEIGHT OF WALL. 2. RIP RAP SIZE IN MUNICIPAL ROW TO BE TYPE 3; RIP RAP SIZE ON SITE TO BE TYPE 2.

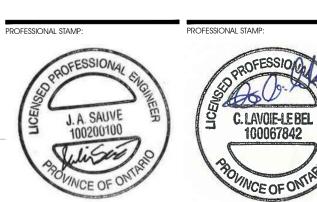








AUGUST 13, 2021
DATE: (MM/DD/YY)







FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

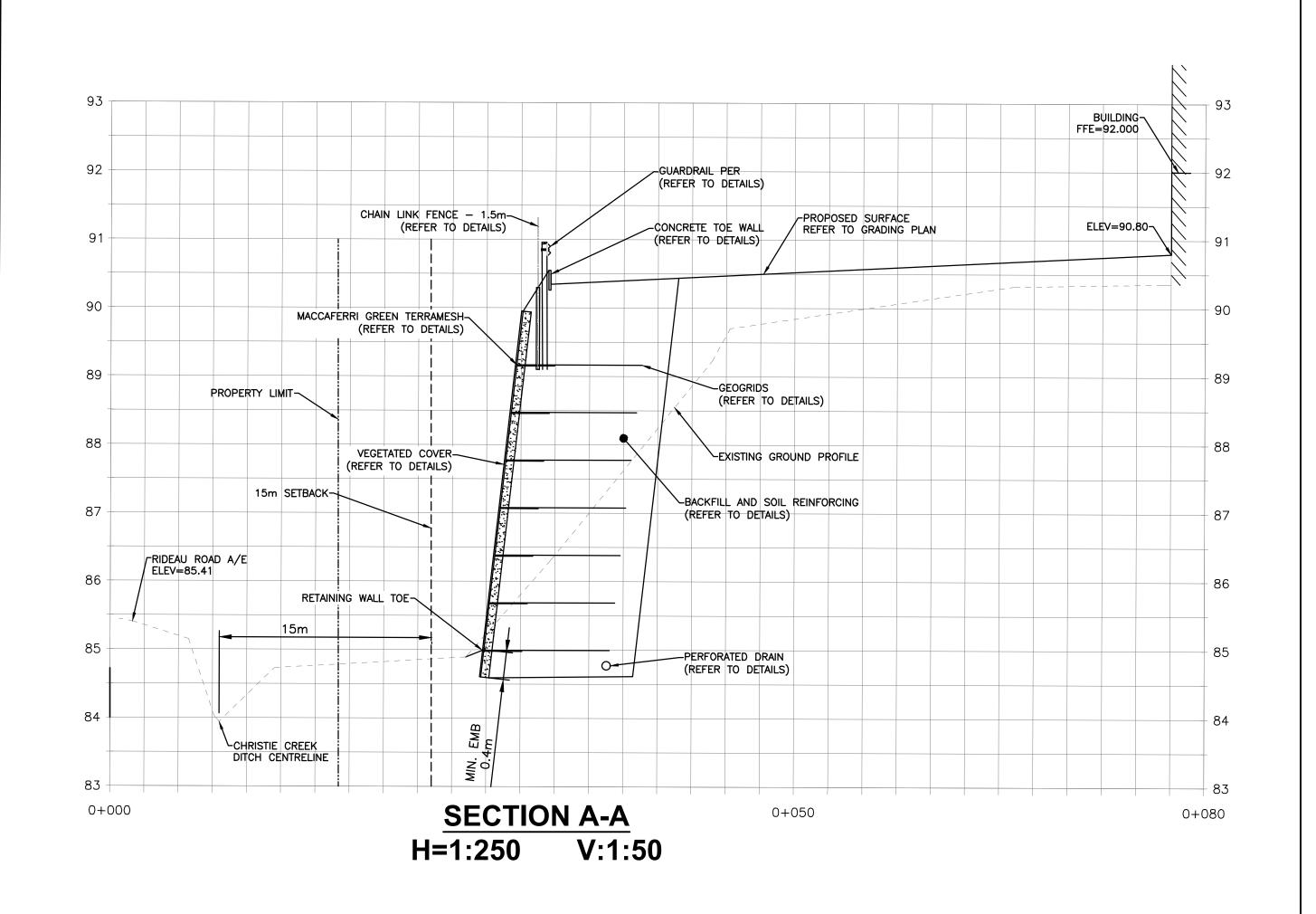
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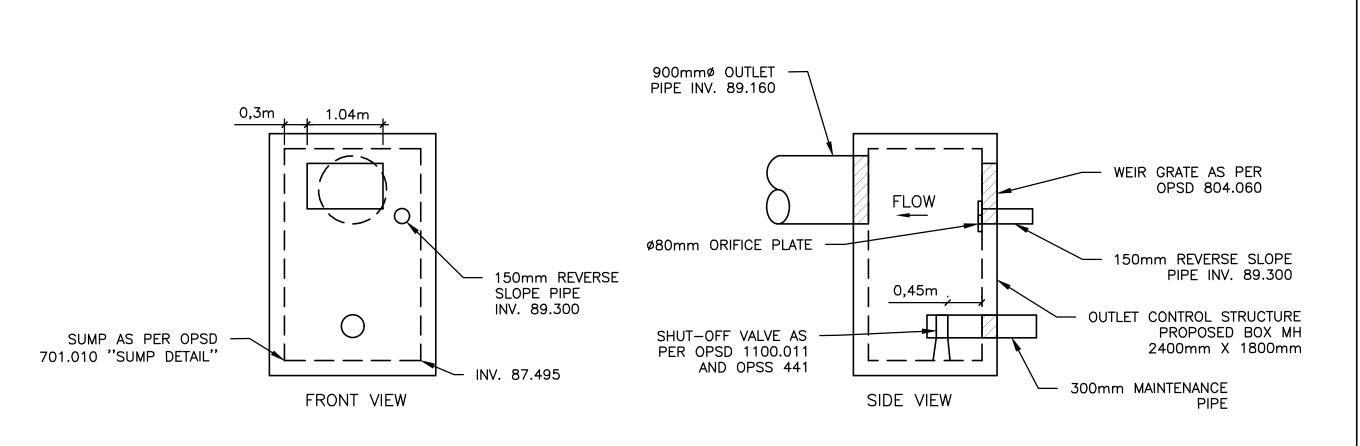
SOMME ST. OTTAWA, ON

**GRADING PLAN** 

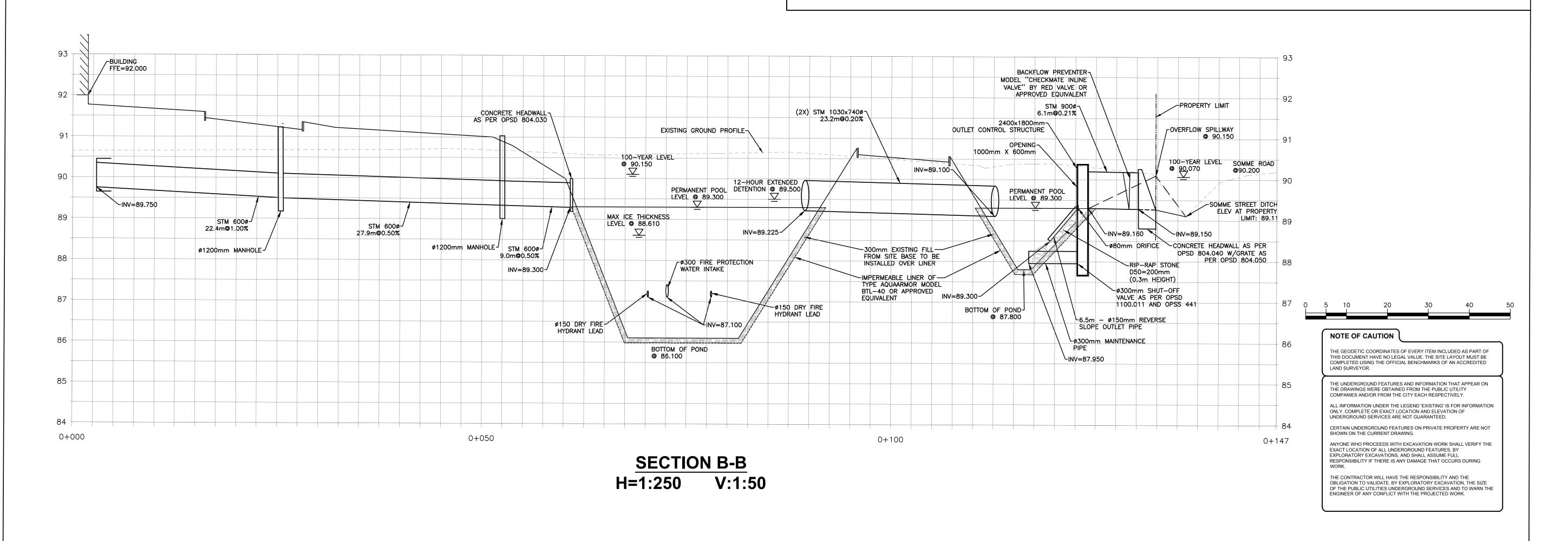
REVIEWED BY: J.SAUVE APPROVED BY: PRINT DATE: REVISION NUMBER: ISSUED DATE: AUGUST 13, 2021 CLIENT PROJECT #: A001083

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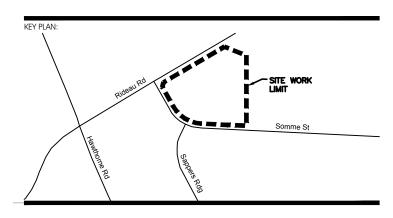


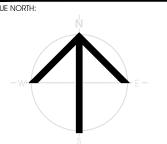


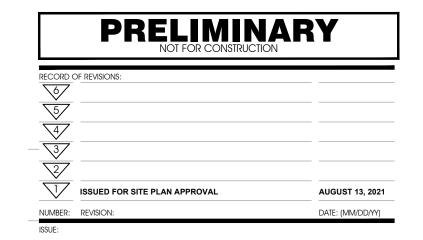
# OULTET CONTROL STRUCTURE DETAILS SCALE: NTS

















PROJECT TITLE:

FASTFRATE OTTAWA WAREHOUSE

AND DISTRIBUTION FACILITY

SCALE: 1:500

SOMME ST. OTTAWA, ON

SECTIONS

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DATE:
REVIEWED BY: J.SAUVE
APPROVED BY:
PRINT DATE:
ISSUED DATE: AUGUST 13, 2021

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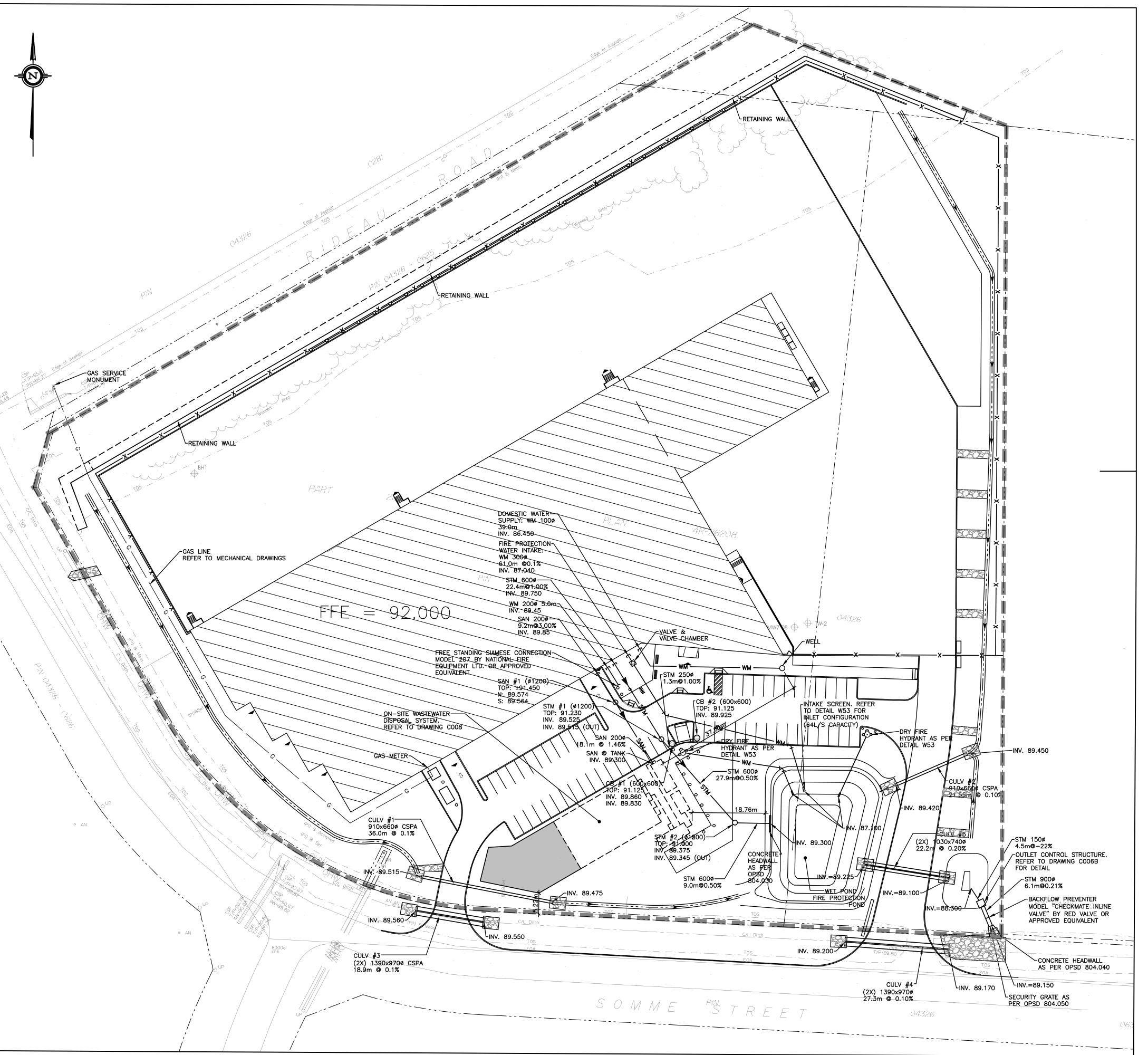
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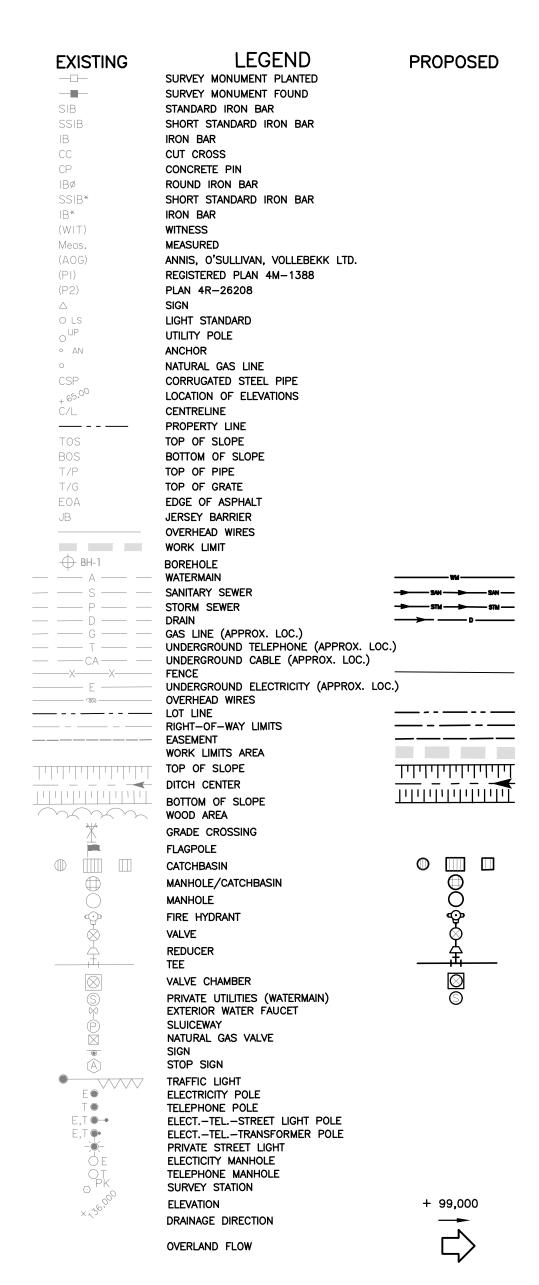
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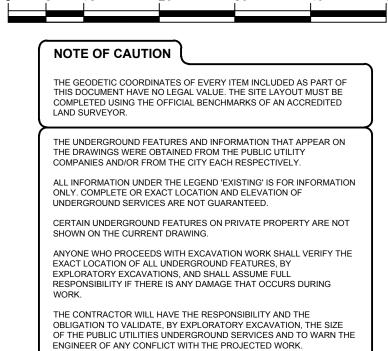
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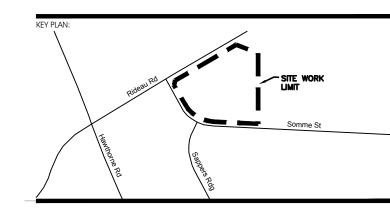
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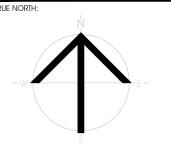












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FASTFRATE OTTAWA WAREHOUSE
AND DISTRIBUTION FACILITY

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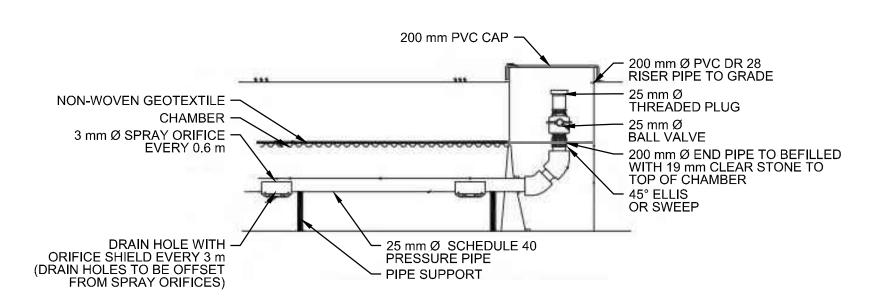
# SITE SERVICING PLAN

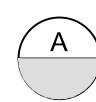
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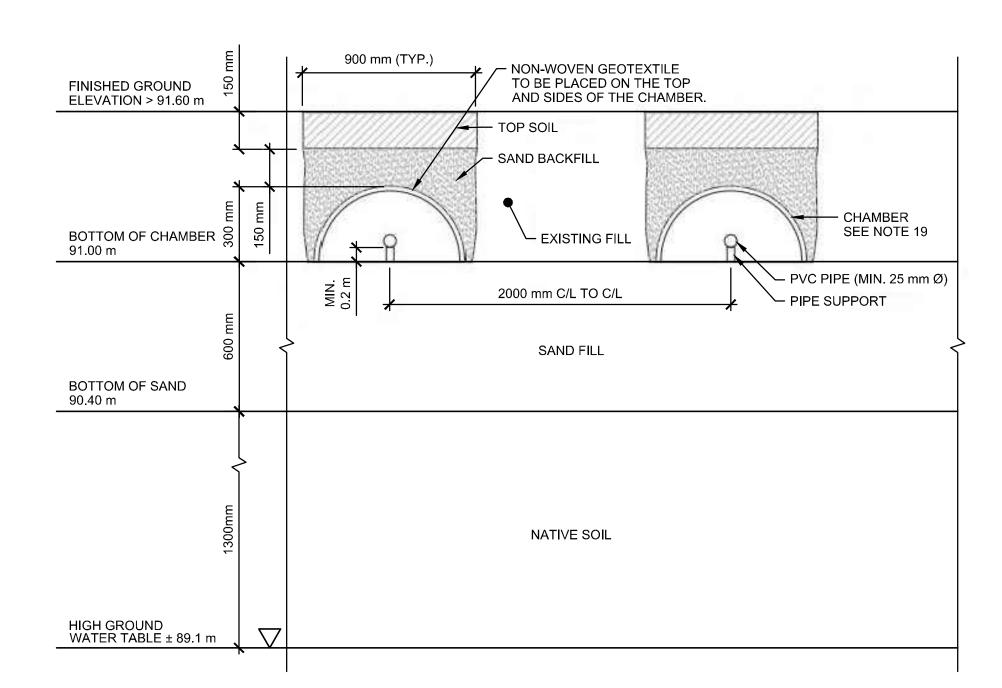
# **PLAN VIEW - SEPTIC SYSTEM**

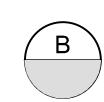
MANTLE SURFACE AREA



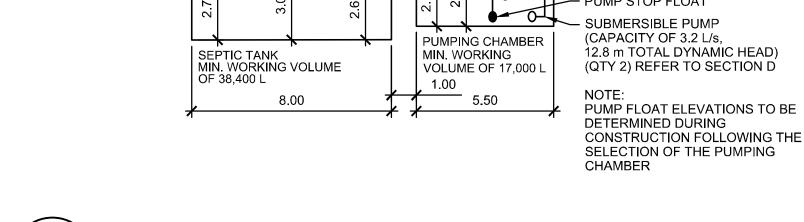


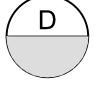
### SHALLOW BURIED TRENCH ENDPORT SCALE: N.T.S.





## SHALLOW BURIED TRENCH DETAIL SCALE: N.T.S.





RECYCLE LINE

OF 38,400 L

LEVEL IV TREATMENT UNIT

WATERLOO BIOLFILTER

MIN. WORKING VOLUME

PROVIDE MINIMUM TWO (2) ACCESS -

ACCESS TO BE MINIMUM 610 mm Ø

AND ACRESS RISER c/w ACCESS

COVER FOR SEPTIC TANK.

91.1 mASL

# SECTION VIEW OF SEPTIC TANK, PUMPING CHAMBER PUMPS AND DISCHARGE PIPE

GROUND OVER THE SEPTIC TANK

AND THE PUMPING CHAMBER TO BE MOUND AND SLOPED TO PROMOTE RUNOFF FROM THE SEPTIC TANK AND PUMPING CHAMBER

@ MIN. 2% SLOPE

PVC SCHEDULE 40 PIPE

PROVIDE MINIMUM ONE (1) ACCESS

ACCESS TO BE MINIMUM 610 mm Ø

AND ACRESS RISER c/w ACCESS

COVER FOR PUMPING CHAMBER

PUMP START FLOAT

**CLASS 4 SEPTIC SYSTEM NOTES** 

ONTARIO BUILDING CODE (OBC) PART 8.

CONTRACTOR ORDERING THE TANKS.

TO BE APPROVED BY THE ENGINEER.

CHAMBER IS GRAVITY DRIVEN.

BOTTOM AND SIDES.

TO BE PROVIDED.

AS PER THE OBC.

OVERTOP OF THE TANK.

MATERIAL TO THE SITE.

THE ENGINEER.

NETWORK.

BIOFILTER.

OF 38,400 L (THREE TIMES THE DAILY DESIGN FLOW).

3. THE SEPTIC SYSTEM TANK, PUMPING CHAMBER, AND LEVEL IV

TO ENGINEER. ENGINEER TO APPROVE TANKS PRIOR TO THE

4. PROPOSED CHANGES TO SEPTIC SYSTEM DESIGN BY CONTRACTOR

5. SANITARY FLOWS FROM THE WAREHOUSE BY GRAVITY TO THE SEPTIC

TANK. THE EFFLUENT FROM THE SEPTIC TANK TO THE PUMPING

6. THE SEPTIC, PUMPING CHAMBER, AND LEVEL IV TREATMENT UNIT TO

FOLLOWING EFFLUENT OBJECTIVES: CBOD5 = 10 MG/L AND TSS = 10

9. THE SIMPLEX PUMP IN THE LEVEL IV TREATMENT UNIT RECIRCULATES A PORTION OF THE EFFLUENT TO THE INLET OF THE SEPTIC TANK.

BIOFILTER BASKET, HOUSING TWO BASKETS FILLED WITH BIOFILTER

MEDIUM. THE PUMP TANK EFFLUENT TO BE EVENLY DISTRIBUTED OVER THE SURFACE OF THE MEDIUM. A PASSIVE CHARCOAL VENTING

11. ALL PUMPS TO BE OPERATED BY WATERLOO SMART PANEL(S). THE

WATERLOO SMART PANEL SHALL PROVIDE REMOTE MONITORING,

12. PROVIDE ACCESS FROM GRADE TO SEPTIC TANK EFFLUENT FILTER

13. PROVIDE SEPTIC TANK EFFLUENT FILTER PER OBC REQUIREMENTS

15. PRIOR TO PLACEMENT OF THE IMPORTED SAND FILL ANY SURFICIAL

16. THE EXISTING FILL MATERIAL IS TO BE COMPACTED TO ENSURE

17. ALL SAND FILL (SEPTIC SAND) TO HAVE A MINIMUM AND MAXIMUM

RESPECTIVELY. SAND TO HAVE A MAXIMUM 5% FINES PASSING

THROUGH A NO. 200 SIEVE. CONTRACTOR TO SUBMIT GRADATION

MATERIAL TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERING

18. CONTRACTOR TO SUBMIT WORKING DRAWINGS FOR: SEPTIC TANK, SEPTIC TANK APPURTENANCES, PUMPING CHAMBER, PUMPING

CHAMBER APPURTANENCES, ALL PUMPS, WATERLOO BIOFILTER

BALL VALVES, THREADED PLUG, PIPES, REDUCERS, PVC CAPS,

19. APPROVED CHAMBERS FOR SBT INCLUDE: CULTEC RECHARGER

20. SEPTIC TANK, PUMPING CHAMBER, AND LEVEL IV TREATMENT UNIT

LOADING. ALL TANKS TO CONFORM TO NATIONAL STANDARDS OF CANADA CAN/CSA B66-10 AND CSA A23.4-19. CONTRACTOR TO SUBMIT

DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER

LEVEL FLOATS, SBT CHAMBERS, PIPE SUPPORTS, CHECK VALVES,

GEOTEXTILE, ORFICE SHEILDS TO BE REVIEWED AND ACCEPTED BY

150XLHD OR APPROVED EQUAL. CONTRACTOR TO SUBMIT WORKING

TANKS TO BE PRE-CAST CONCRETE. CONCRETE AND RATED FOR H-20

WORKING DRAWINGS FOR REVIEW AND APPROIVAL BY THE ENGINEER.

CURVES AND PERCOLATION TEST RESULTS FOR PROPOSED SAND FILL

PERCOLATION RATES OF 6 MINUTES/CM AND 10 MINUTES/CM

UNEVEN SETTLEMENT DOES NOT OCCUR.

ORGANICS ARE TO BE REMOVED FROM THE SBT BED AND MANTLE

DESIGNED FOR A MINIMUM CAPACITY OF 25,000 L/DAY.

14. ALL TANKS TO BE DESIGNED FOR A MINIMUM OF 2m OF BURIAL

CONTROL, AND DATALOGGING OVER A STABLE WIRELESS CELLULAR

BE WRAPPED IN MEL-ROL (OR APPROVED EQUAL) ON THE TOP,

7. THE LEVEL IV TREATMENT UNIT TO BE PROVIDED BY WATERLOO

8. THE LEVEL IV TREATMENT SYSTEM TO BE DESIGNED FOR THE

10. THE PUMP TANK EFFLUENT TO BE DOSED TO THE WATERLOO

1. THE SEPTIC SYSTEM AND ALL APPURTENANCES SHALL ADHERE TO

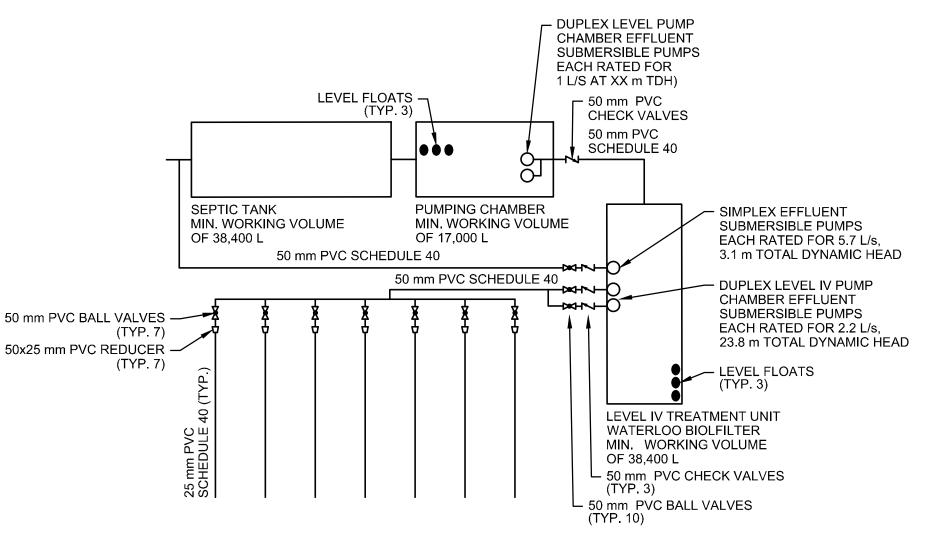
2. THE DAILY DESIGN FLOW IS 12,800 L/DAY. THE SEPTIC TANK AND LEVEL IV TREATMENT UNIT TANK SHALL HAVE A MINIMUM WORKING VOLUME

TREATMENT UNIT SHOWN ON THE DRAWINGS ARE APPROXIMATE

SIZES. CONTRACTOR TO SUBMIT CUTSHEETS OF PROPOSED SEPTIC

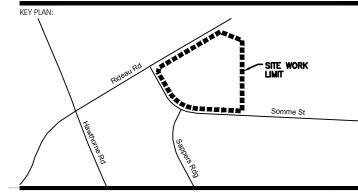
SYSTEM TANK, PUMPING CHAMBER, AND LEVEL IV TREATMENT TANK

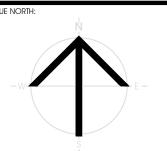
SCALE: N.T.S.



# PROCESS FLOW SCHEMATIC

SCALE: N.T.S





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RECORD (	OF REVISIONS:	
6		
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$\frac{\mathbf{v}}{2}$		
Ť	ISSUED FOR SITE PLAN APPROVAL	AUGUST 13, 202
NUMBER:	REVISION:	DATE: (MM/DD/YY)





WWW.CIVITAS-INC.CA



CIVITAS ARCHITECTURE INC. OTTAWA, ON 14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9



- FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

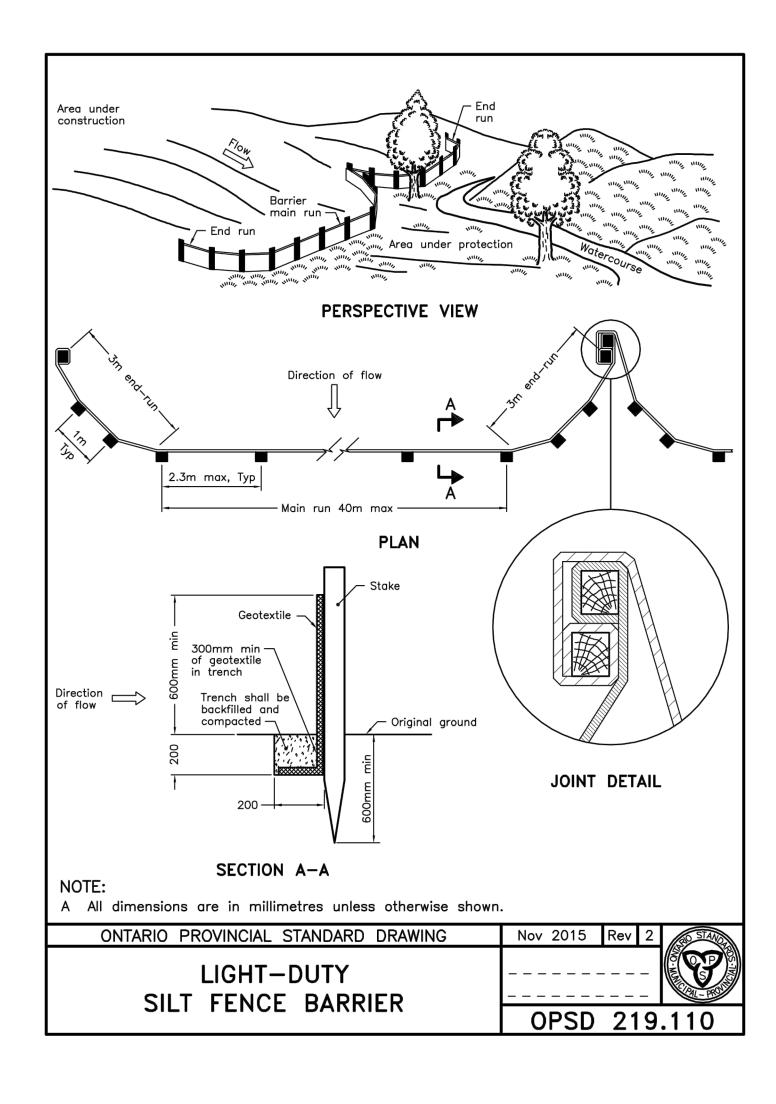
SCALE: NONE

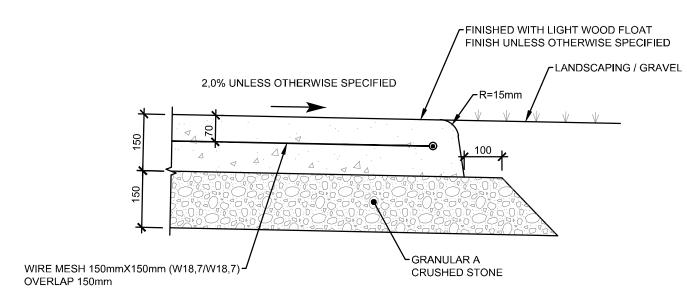
SOMME ST. OTTAWA, ON

> SEPTIC SYSTEM CONFIGURATION **AND SECTIONS**

Drawn by: Date:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	K.SCHMIDT	C008
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	REVIOLON NOTVIDEN.
CLIENT PROJECT #:		PROJECT #:
		A0010

CONSULTANT DRAWINGS. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE ARCHITECT. COPPRIGHT RESERVED. ALL PARTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT THE EXPRESSED PERMISSION FROM THE ARCHITECT.

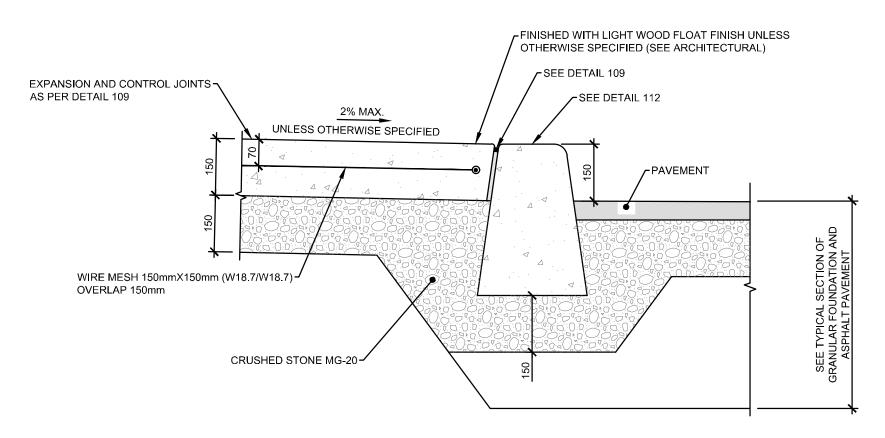




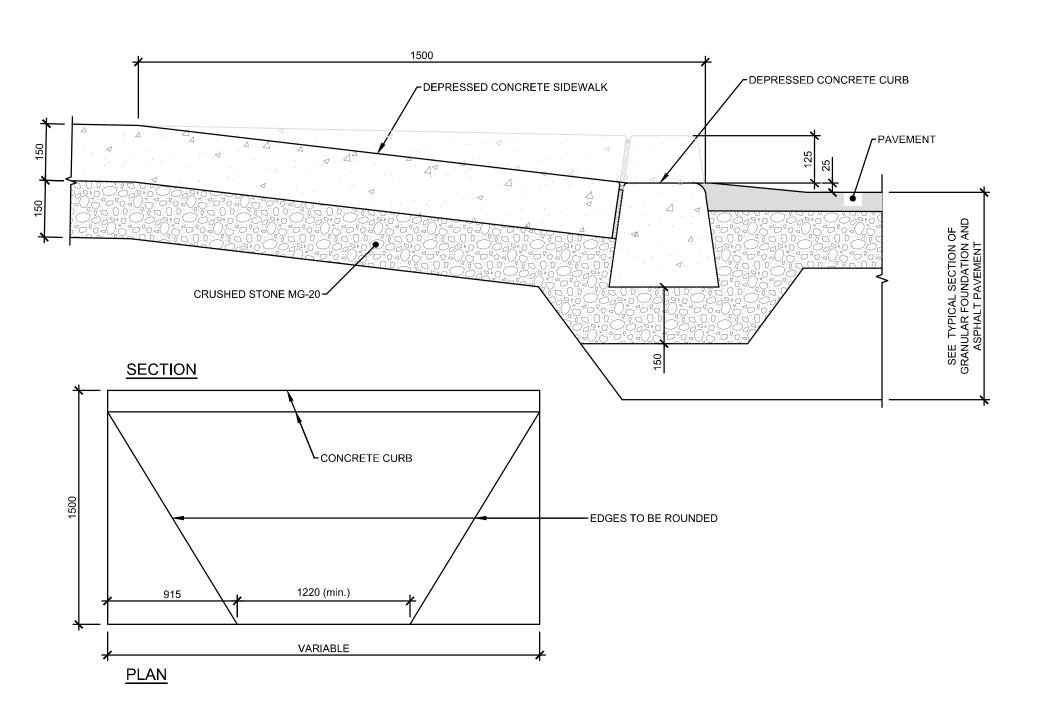
#### NOTES:

- CONCRETE CLASS: C-2;

- WATER/BINDER MAX. RATIO: 0.45;
   MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 32 MPa;
- GRANULARS MAXIMAL NOMINAL Ø: 20mm;
   AIR CONTENT: 5% TO 8%;
- SLUMP: 80mm ± 30mm FOR FIXE FORMWORK
  30mm ± 30mm FOR SLIDING FORMWORK;
   CONTROL AND EXPANSION JOINTS AS PER DETAIL 109.
  - SLAB SIDEWALK
    AUCUNE / NTS

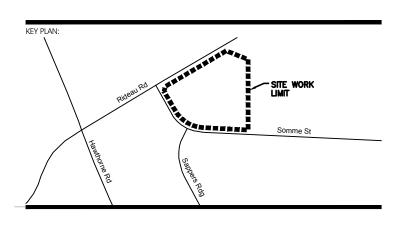


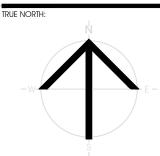
102 SIDEWALK - BUILDING TYPE - SLAB AND CURB



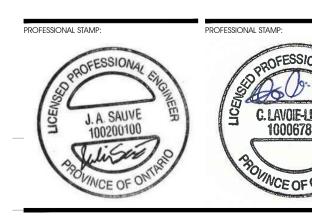
DEPRESSED SIDEWALK TYPE SLAB AND CURB AUCUNE / NTS







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	ISSUED FOR SITE PLAN APPROVAL REVISION:	DATE: (MM/DD/YY)





CIVITAS ARCHITECTURE INC.

14 CHAMBERLAIN AVENUE, SUITE 101

CANADA K1S 1V9

WWW.CIVITAS-INC.CA

DISSULTANT LOGO:



PROJECT TITLE:

- FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

SCALE: NONE

SOMME ST. OTTAWA, ON

\_ \_\_ \_ \_ \_

DETAILS

DRAWN BY:
DATE:

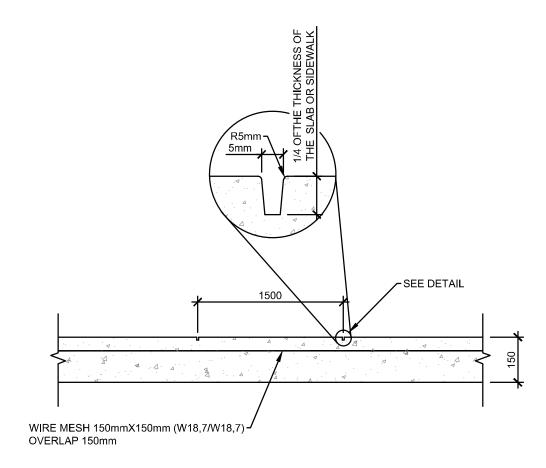
REVIEWED BY:
APPROVED BY:
PRINT DATE:
ISSUED DATE:
AUGUST 13, 2021

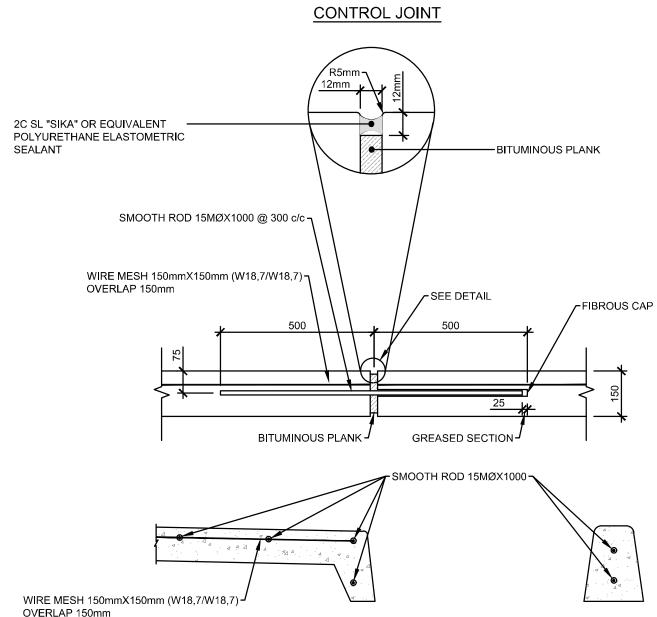
CLIENT PROJECT #:

PROJECT #:

A001083

DO NOT SCALE THIS DRAWING. USE FIGURE DIMENSIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL, AND OTHER CONSULTANT DRAWINGS. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE ARCHITECT. COPYRIGHT RESERVED. ALL PARTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT THE EXPRESSED PERMISSION FROM THE ARCHITECT.





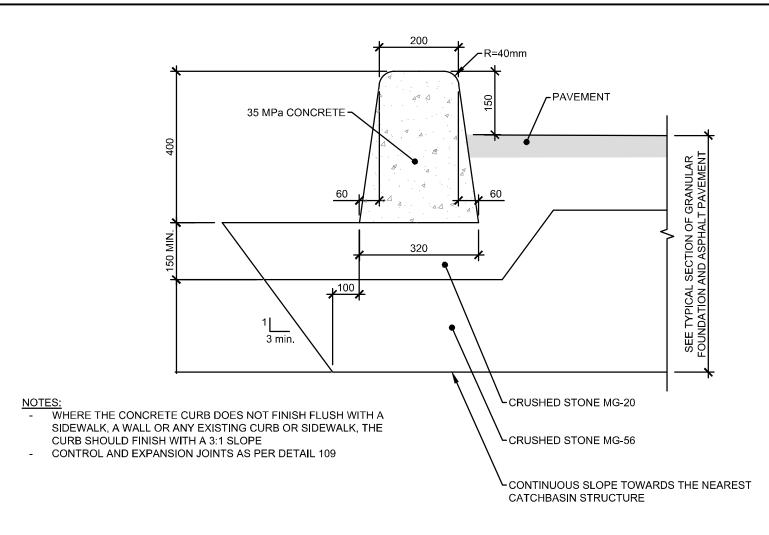
#### CONSTRUCTION AND EXPANSION JOINT

NOTES:

- EXPANSION JOINTS OF CONCRETE WORK AT 6,0m C/C MAX. DIRECTION CHANGE AND
- AT CONTACT WITH CONCRETE STRUCTURES
  EDGES AND CONTROL JOINTS SHALL BE GROOVED, TOOLED AND BURNISHED WITH BRONZE EDGERS AND GROOVERS.

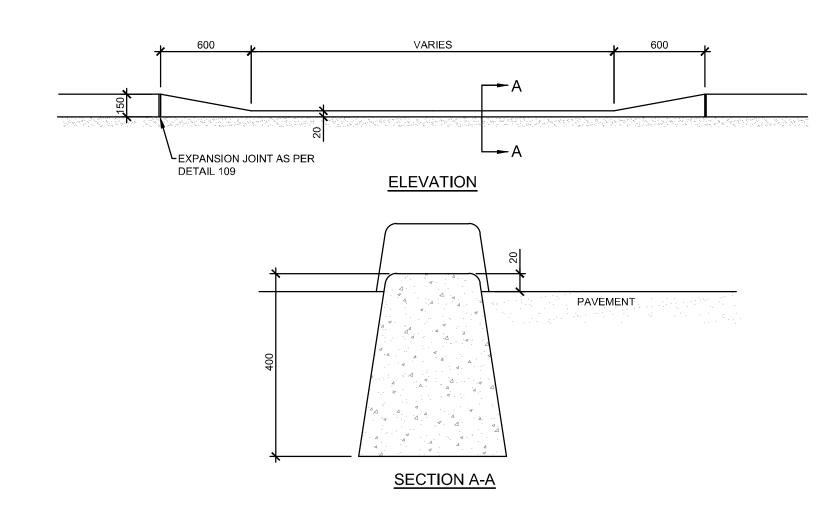


EXPANSION, CONTROL AND CONSTRUCTION JOINTS FOR CONCRETE WORK



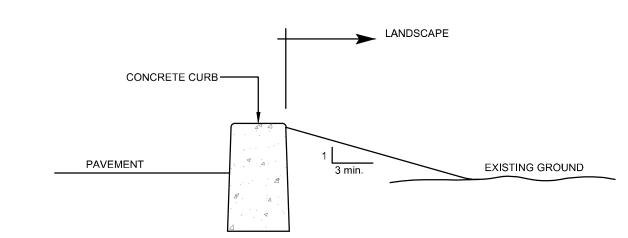


#### CONCRETE CURB DETAIL (TYPICAL) AUCUNE / NTS

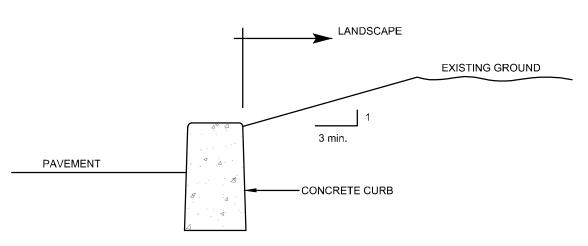




# DEPRESSED CONCRETE CURB AUCUNE / NTS



#### SIDE VIEW - LOWER EXISTING GROUND

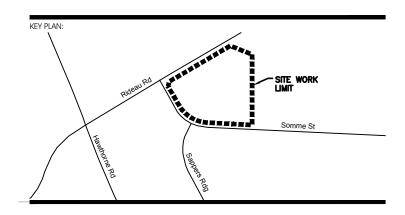


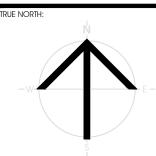
#### SIDE VIEW - UPPER EXISTING GROUND



TYPICAL SECTION - LANDSCAPE CONCRETE CURB







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1/	ISSUED FOR SITE PLAN APPROVAL	AUGUST 13, 2021
NUMBER:	REVISION:	DATE: (MM/DD/YY)





CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742.7482
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC.CA



- FASTFRATE OTTAWA WAREHOUSE

AND DISTRIBUTION FACILITY

SCALE: NONE

SOMME ST. OTTAWA, ON

DETAILS

C010 REVIEWED BY: APPROVED BY: PRINT DATE: REVISION NUMBER: ISSUED DATE: AUGUST 13, 2021 A001083

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GATE LEAVES GREATER THAN 3.6m IN WIDTH ARE SUPPLIED WITH DIAGONAL BRACES.

NOTE:

1. ALL FASTENERS MADE OF GALVANIZED STEEL (NO ALUMINUM) 2. TOP OF RAIL TYPE "KNUCKLE/KNUCKLE" (NO POINTY EDGE)

3.5mm DIA. BOTTOM WIRE FASTENED

TOP OF RAIL

-MESH : GAUGE 6

➤ FASTENERS AT

400mm c/c

GROUND LINE

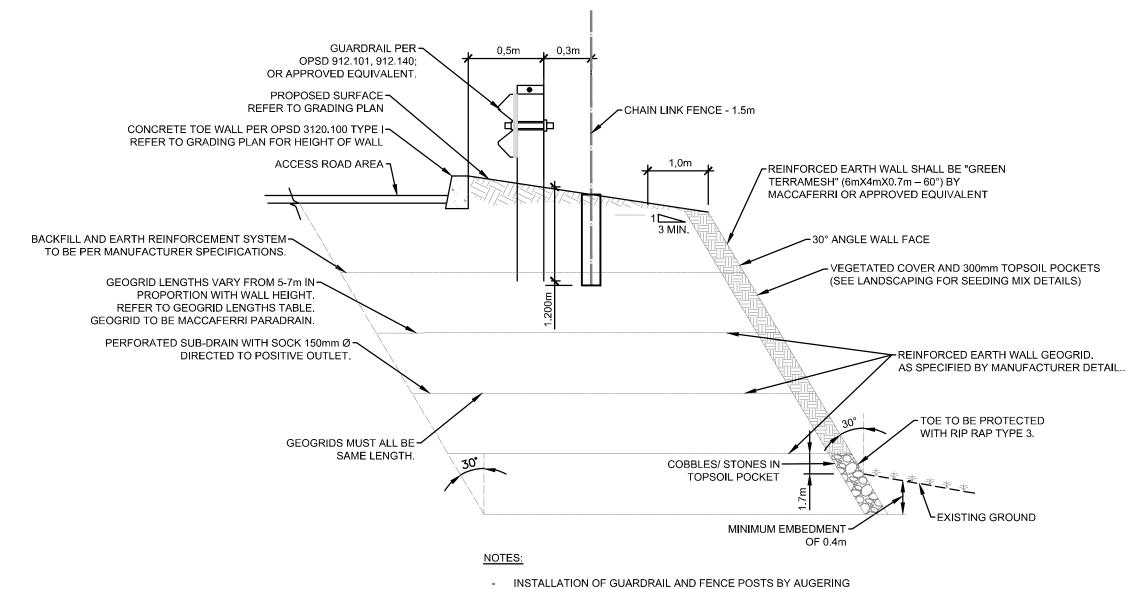
40 TO 75mm CLEARANCE

NON PAINTED

IN GALVANIZED STEEL



## CHAIN LINK FENCE



STRICTLY PROHIBITED.

STRUCTURE MUST BE FOUNDED ON APPROVED COMPETENT SOIL

APPLIED LOAD = 175kPA SHOP DRWAINGS FOR EARTH WALL DESIGN, SIGNED AND SEALED BY AN ENGINEER LICENSED IN ONTARIO SHALL BE SUBMITTED.

A TRANSITION IS REQUIRED WHERE SUBGRADE FILL MATERIAL HAS

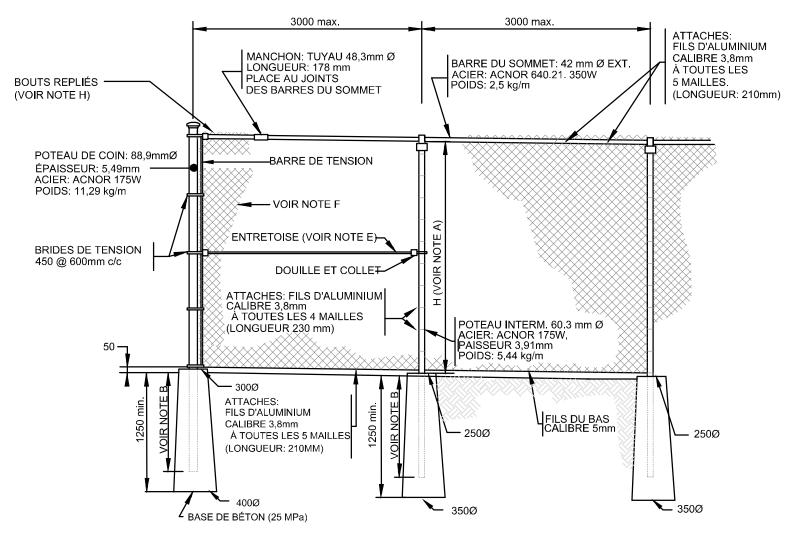
DIFFERENT FROST SUCEPTIBILITY. TRANSITION SHALL REACH A MAXIMUM DEPTH OF 1.8m BELOW PROJECTED PAVEMENT ELEVATION.

GEOGRID L	ENGTH TABLE
Н	REINFORCED PARADRAIN LENGTH Lg (m)
UP TO 4.9 m	5 m
4.91 m TO 6.3 m	6 m
6.31 m TO 7 m	7 m

LOAD TABLE						
PARAMETERS	REINFORCED SOIL	RETAINED SOIL	FOUNDATION SOIL			
UNIT WEIGHT, Kn/m³	21.2	19	20			
ANGLE OF INTERNAL FRICTIONS, φ	32	30	30			
COHESION, KPA	0	0	0			
SURCHARGE LOAD AWAY FROM BACKSLOPE, kPA		17.00				



TYPICAL SECTION - RETAINING WALL, GUARDRAIL AND FENCE AUCUNE / NTS

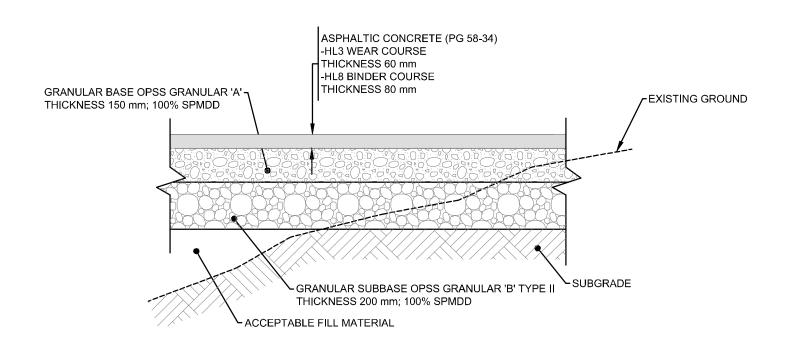


#### NOTES:

- A. FENCE HEIGHT: 1.5 m.
- B. LENGTH OF UNDERGROUND POLES: 1.1 m
- C. CORNER POST: 88.9 mmØ WITH TWO SPACERS.
- D. REINFORCING POST: 88.9 mmØ EVERY 60 m WITH TWO SPACERS. E. SPACERS: 42.2 mmØ, 350W ACNOR STEEL.
- F. GALVANIZED GRILLING-008; COVERED WITH VINYL (BLACK) FOR A TOTAL GAUGE #9E-008; CONFORMS TO CAN/CGSB-138.1 (TYPE 1. CATEGORY A, MEDIUM STYLE)
- SPACING OF 50mm X 50mm. G. ALL METAL PARTS ARE GALVANIZED.
- H. THE ENDS OF THE MESHES AT THE TOP AND BOTTOM MUST BE FOLDED INWARDS SO AS NOT TO HAVE PRICKLY TIPS.
- I. THE WIRE MESH AND METAL PARTS MUST BE BLACK WITH PVC STRAP "SUPER PRIVACY" (BLACK) IN THE PLACES INDICATED ON THE OVERALL PLAN
- J. MEASUREMENTS ARE IN MILLIMETRES

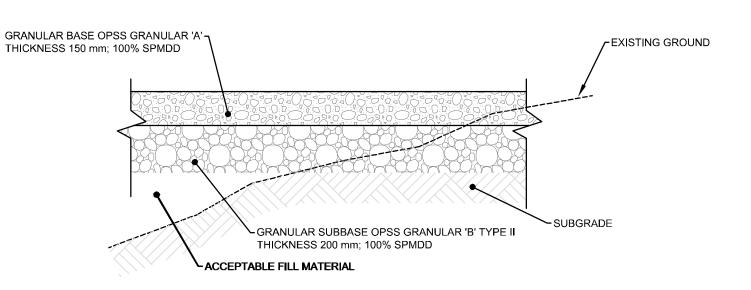


GALVANIZED METAL MESH FENCE 1.8m HIGH AUCUNE / NTS





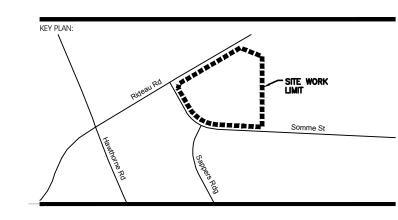
TYPICAL SECTION - GRANULAR FOUNDATION AND ASPHALT PAVEMENT (HEAVY DUTY) AUCUNE / NTS

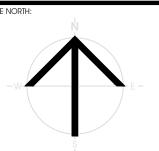




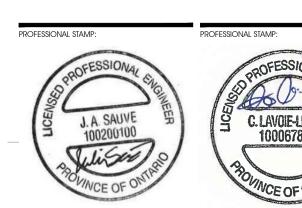
TYPICAL SECTION - GRANULAR PAD













CIVITAS ARCHITECTURE INC. OTTAWA, ON 14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC.CA



- Fastfrate Ottawa Warehouse AND DISTRIBUTION FACILITY

SCALE: NONE

SOMME ST. OTTAWA, ON

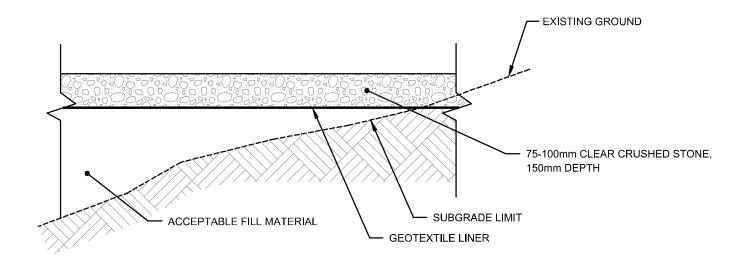
**DETAILS** 

DRAWN BY: DATE:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	J.SAUVE	C011
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	REVIOLON NOIVIBER.
CLIENT PROJECT #	:	PROJECT #:
		A001083

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TYPICAL SECTION - GRANULAR FOUNDATION
AND CONCRETE PAVEMENT (HEAVY DUTY)

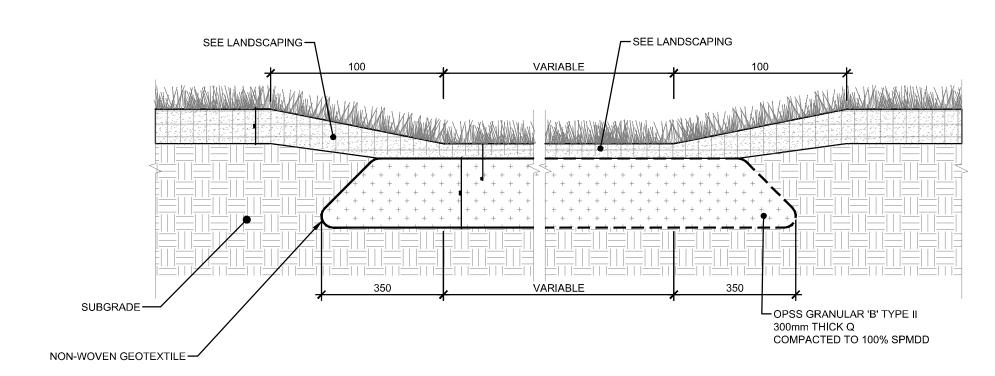
AUCUNE / NTS





TYPICAL SECTION - TEMPORARY CONSTRUCTION ENTRANCE

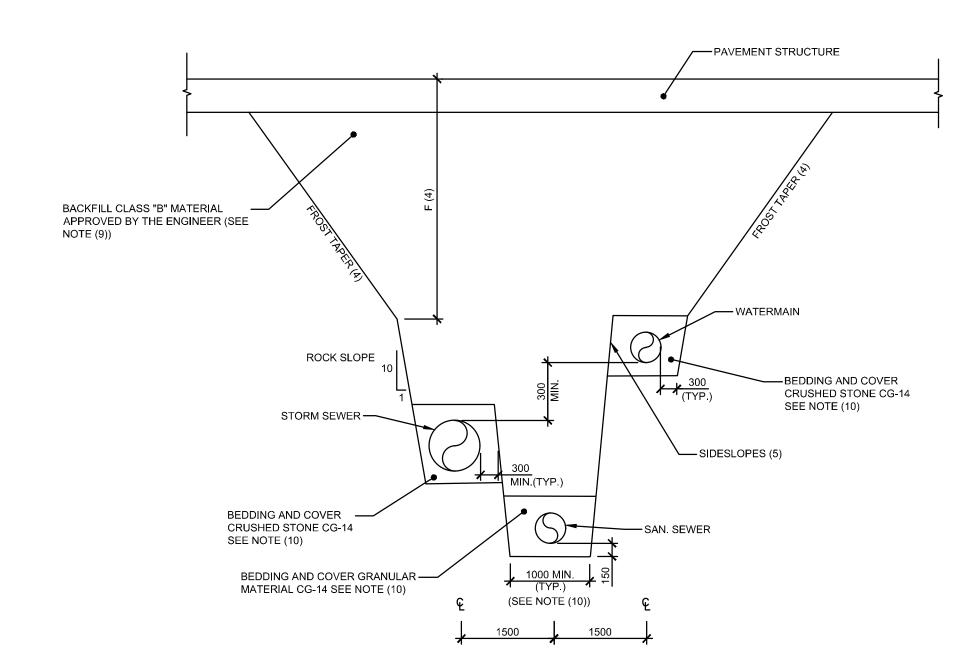
AUCUNE / NTS





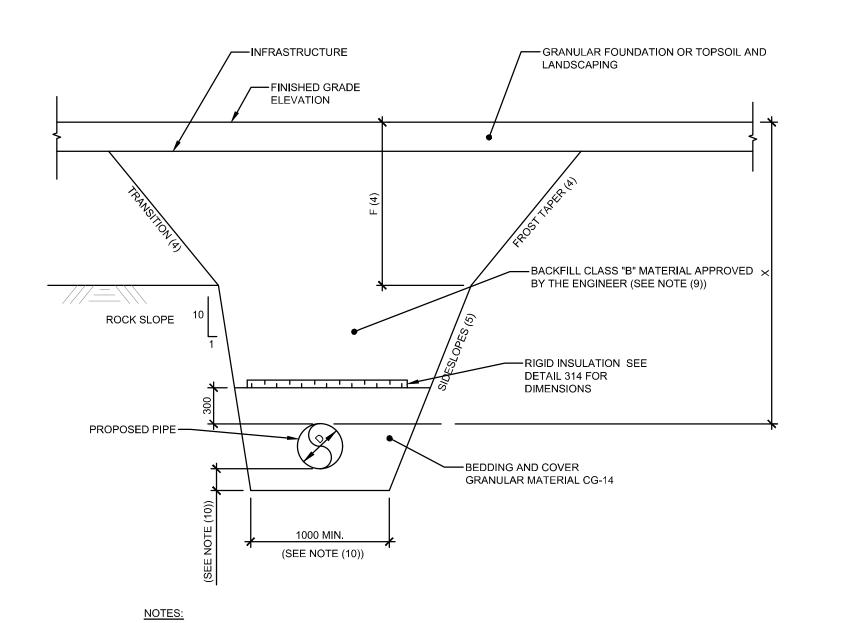
SEPTIC SYSTEM MAINTENANCE TRUCK ACCESS AREA

AUCUNE / NTS





TYPICAL SECTION SINGLE TRENCH - MULTIPLE PIPES
AUGUNE //NITS

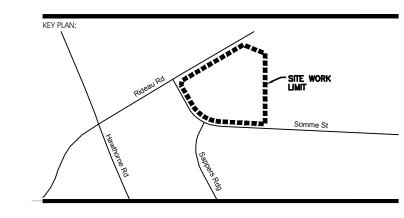


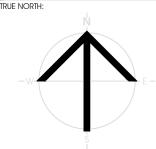
A - WHEN X < 1,8m, INSULATION IS REQUIRED FOR WATERMAIN B - WHEN X < 1,5m, INSULATION ID REQUIRED FOR SEWER



TYPICAL SECTION FROST PROTECTION FOR SEWERS, CATCHBASIN LEAD AND WATERMAIN AUCUNE / NTS







	FOR CONSTRUCTION	
RECORD OF REVISIONS:		
5		
4		
27		
ISSUED FOR SITE PLAN A	APPROVAL	AUGUST 13, 2021
NUMBER: REVISION:		DATE: (MM/DD/YY)





CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.74
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-IN



PROJECT TITLE:

- FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

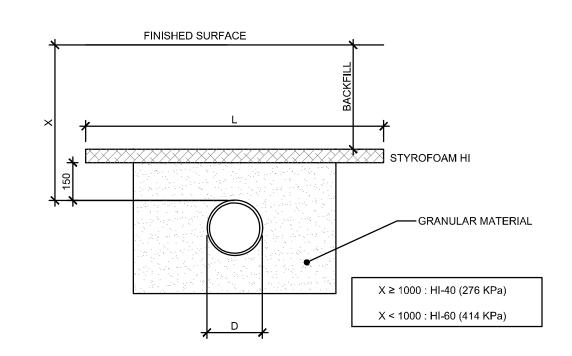
SCALE: NONE

SOMME ST. OTTAWA, ON

**DETAILS** 

DRAWN BY: DATE:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	J.SAUVE	C012
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	REVIOLON NOTIFICATION
CLIENT PROJECT #	:	PROJECT #: <b>A00108</b>

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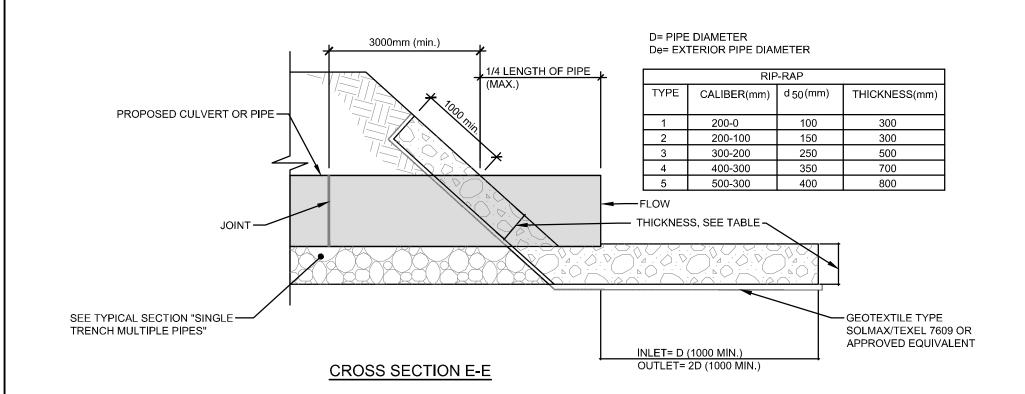


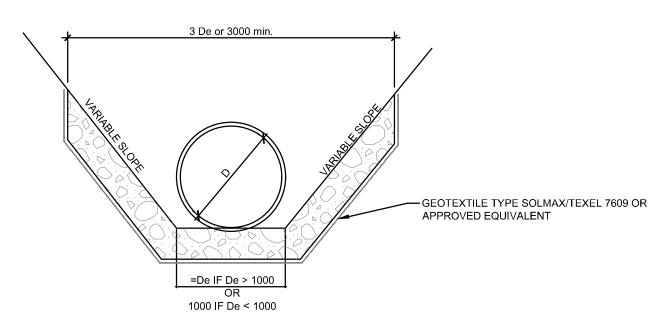
MIMIMO	M WIDTH C	F ISULAT	ION TABL	E (L)	1				INSUL/ THICK
x D	≤150	200	250	300	375	450	525	600	ITIION
750	1650	1700	1750	1800	1875	1950	2025	2100	11
1000	1150	1200	1250	1300	1375	1450	1525	1600	1
1250	650	700	750	800	875	950	1025	1100	7
1500	600	600	600	600	600	600	600	600	7
1750	600	600	600	600	600	600	600	600	5

L= INSULATION WIDTH (mm) D= PIPE DIAMETER (mm)

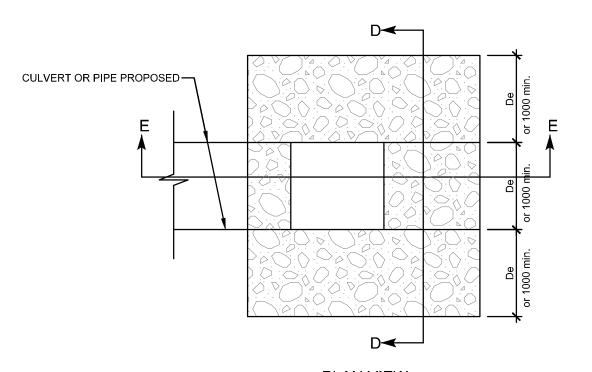


## PIPE INSULATION (1.8m COVER)





CROSS SECTION D-D

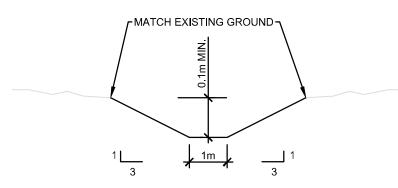


PLAN VIEW



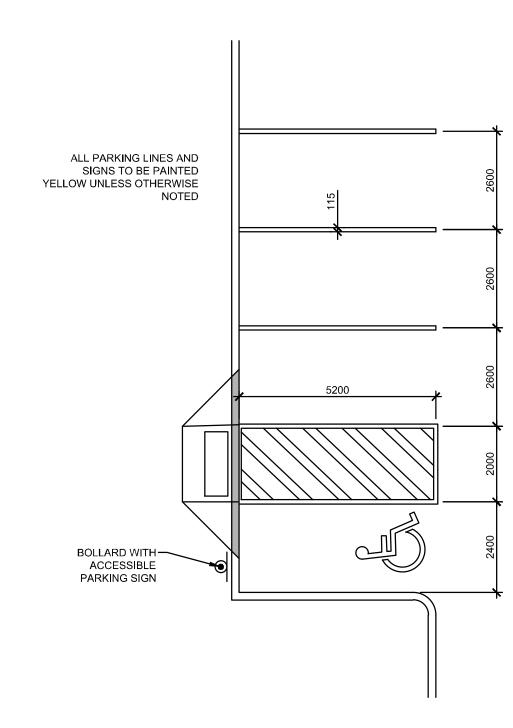
INLET/OUTLET FOR CULVERT OR PIPE DETAIL (TYPICAL)

AUCUNE / NTS





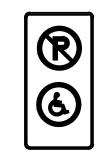
SWALE (TYPICAL) AUCUNE / NTS

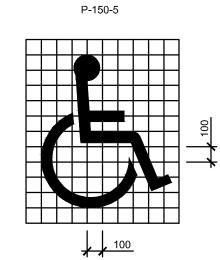




TYPICAL PARKING STALLS

#### ACCESSIBLE PARKING SIGN

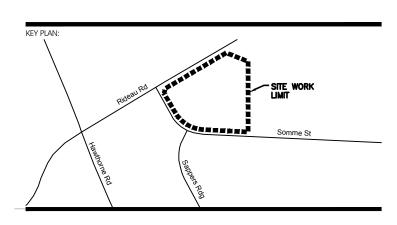






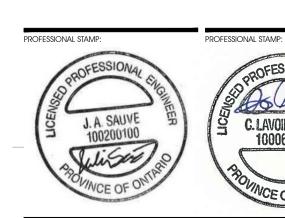
ACCESSIBLE PARKING SIGN AND MARKING







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Ť	ISSUED FOR SITE PLAN APPROVAL	AUGUST 13, 2021
NUMBER:	REVISION:	DATE: (MM/DD/YY)
ISSUE:		





CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742.7482
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC.CA



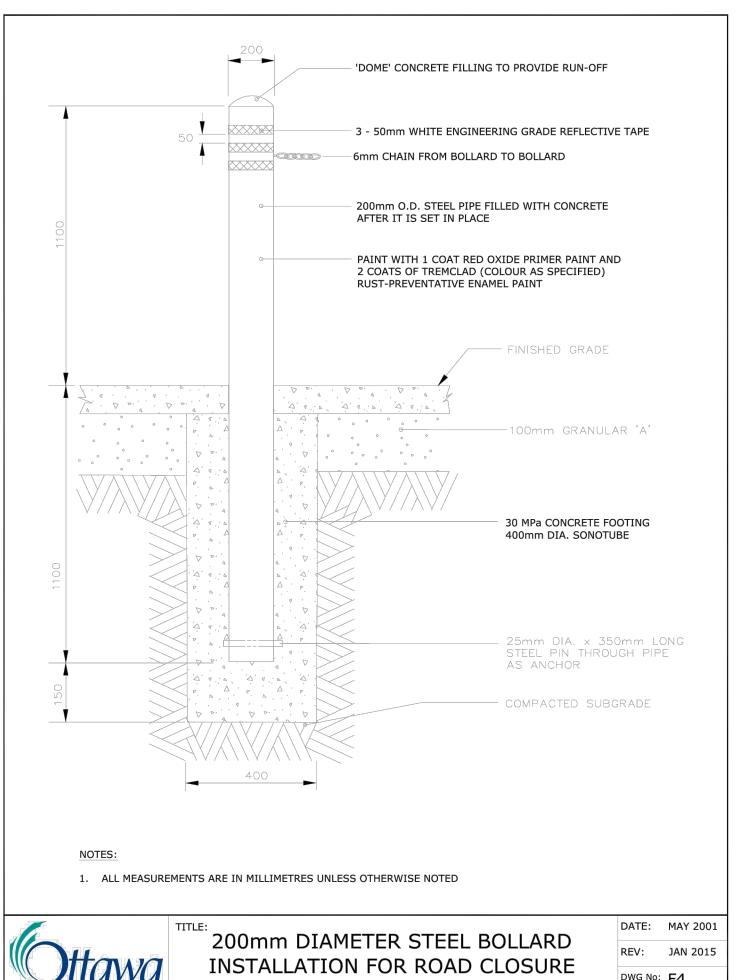
- FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

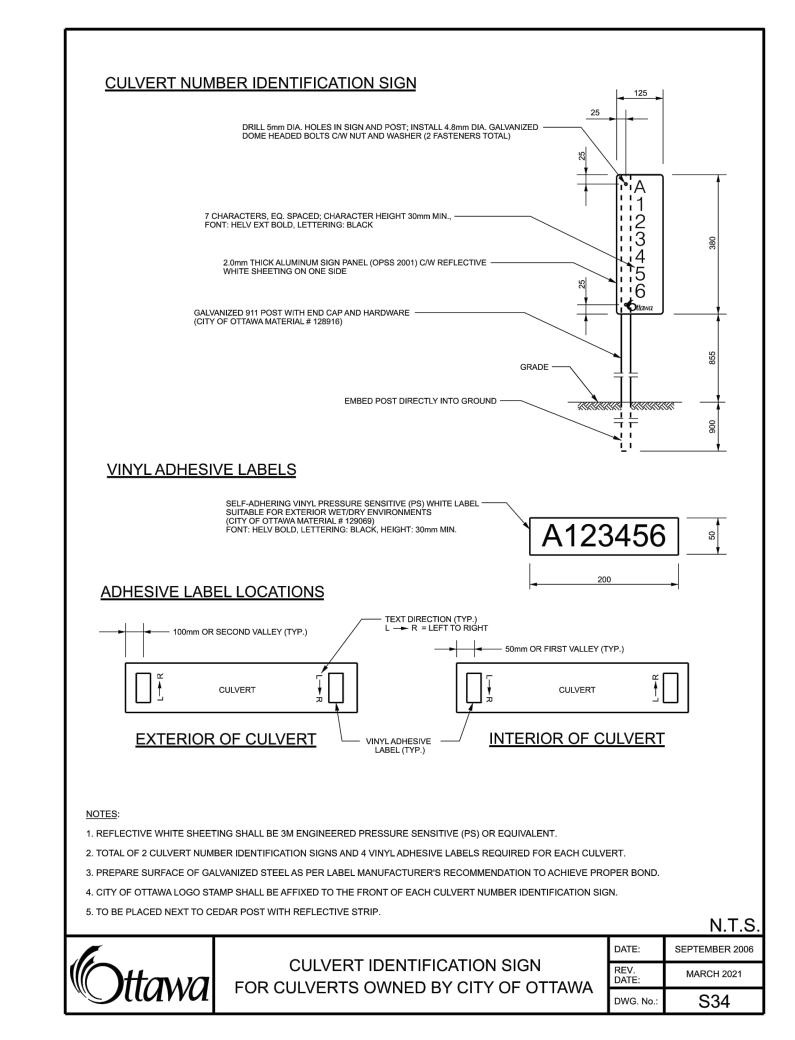
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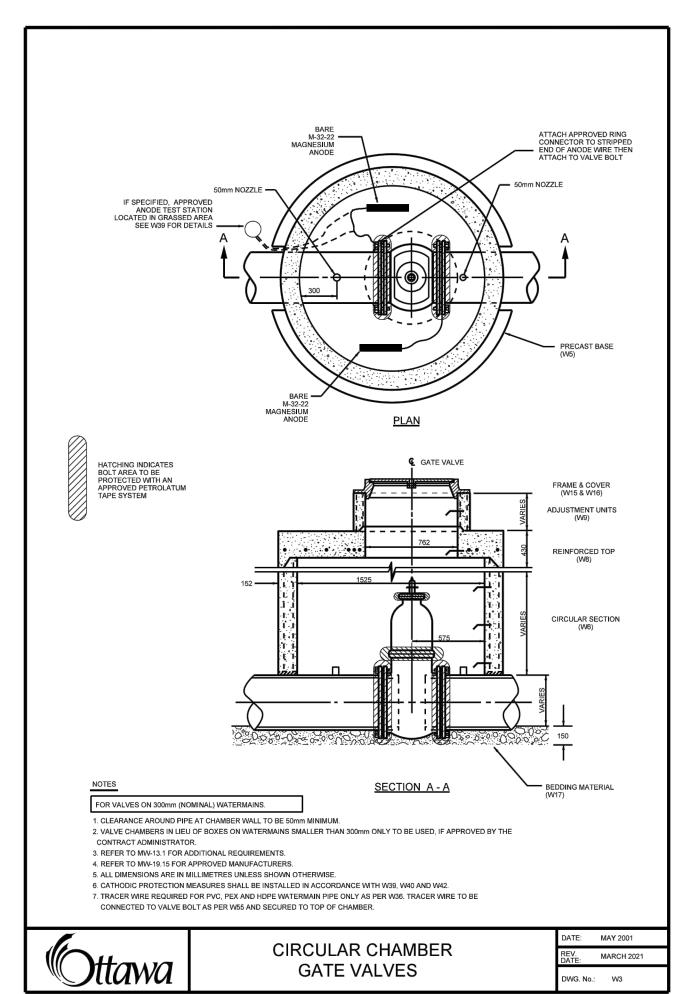
SOMME ST. OTTAWA, ON

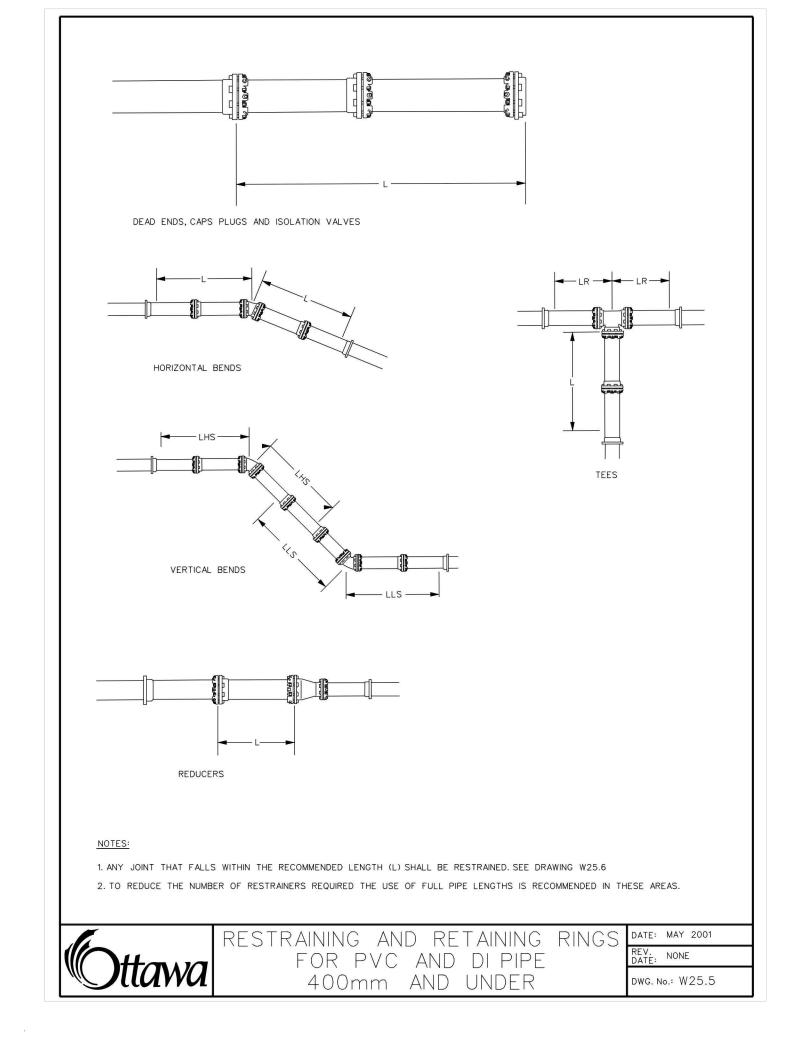
## DETAILS

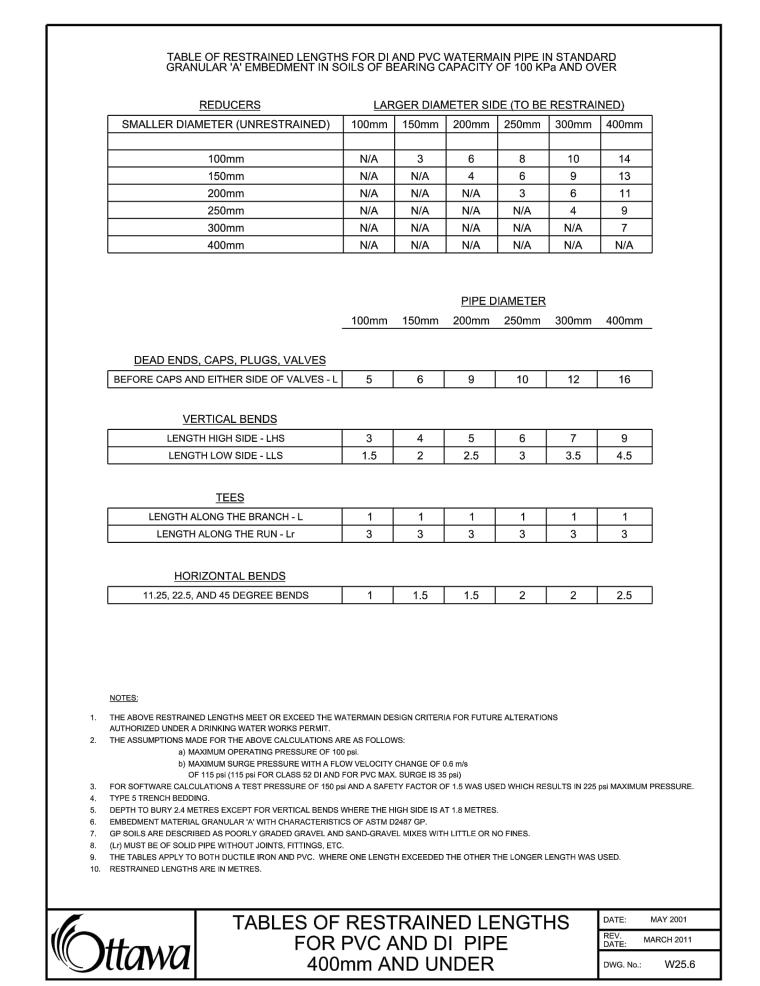
DRAWN BY: DATE:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	J.SAUVE	C013
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	. KEYOLOW VOWIDEN.
CLIENT PROJECT #:		PROJECT #: <b>A001083</b>



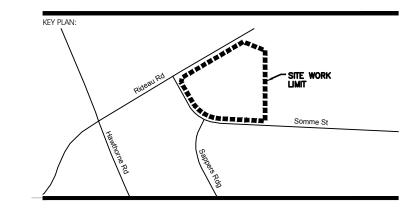


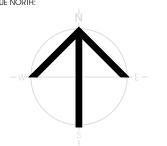




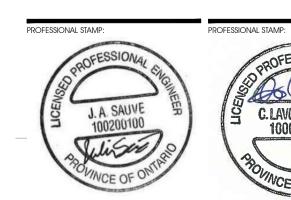








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NUMBER:	REVISION:	DATE: (MM/DD/YY)		





CIVITAS ARCHITECTURE INC. OTTAWA, ON 14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC.CA



- FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

SCALE: NONE

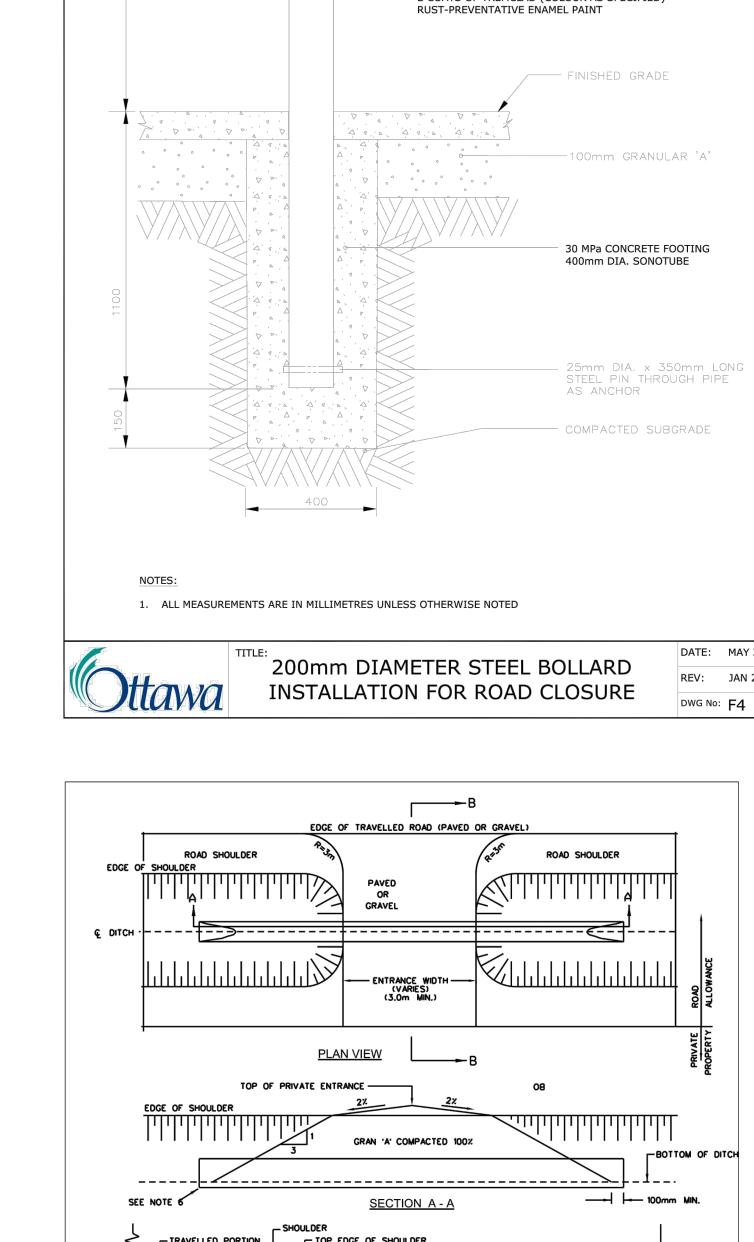
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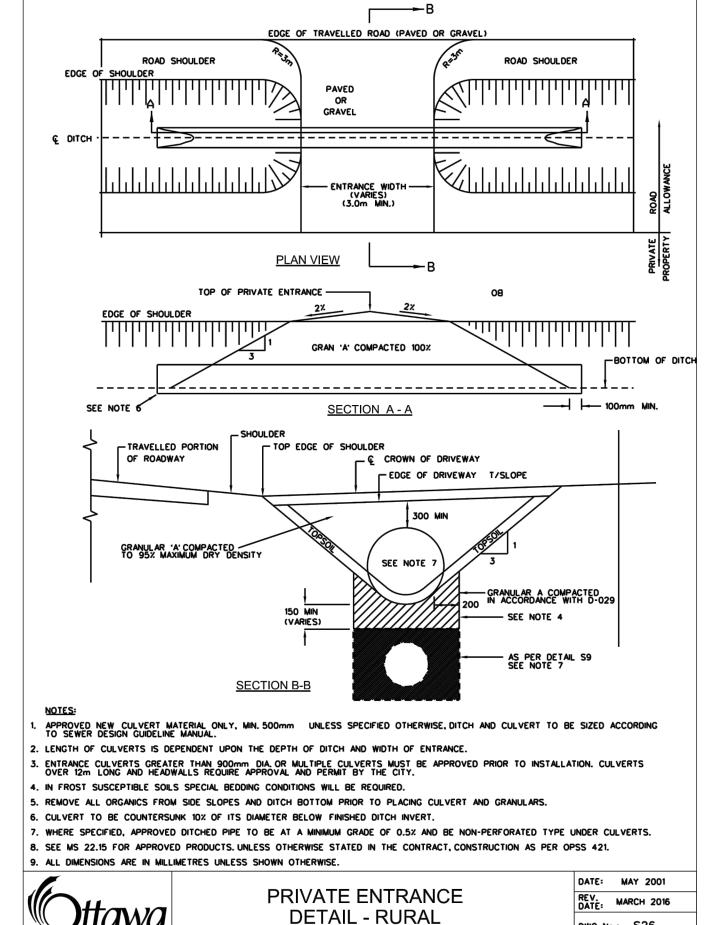
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REVIEWED BY:

APPROVED BY: PRINT DATE: REVISION NUMBER ISSUED DATE: AUGUST 13, 2021 CLIENT PROJECT #: A001083

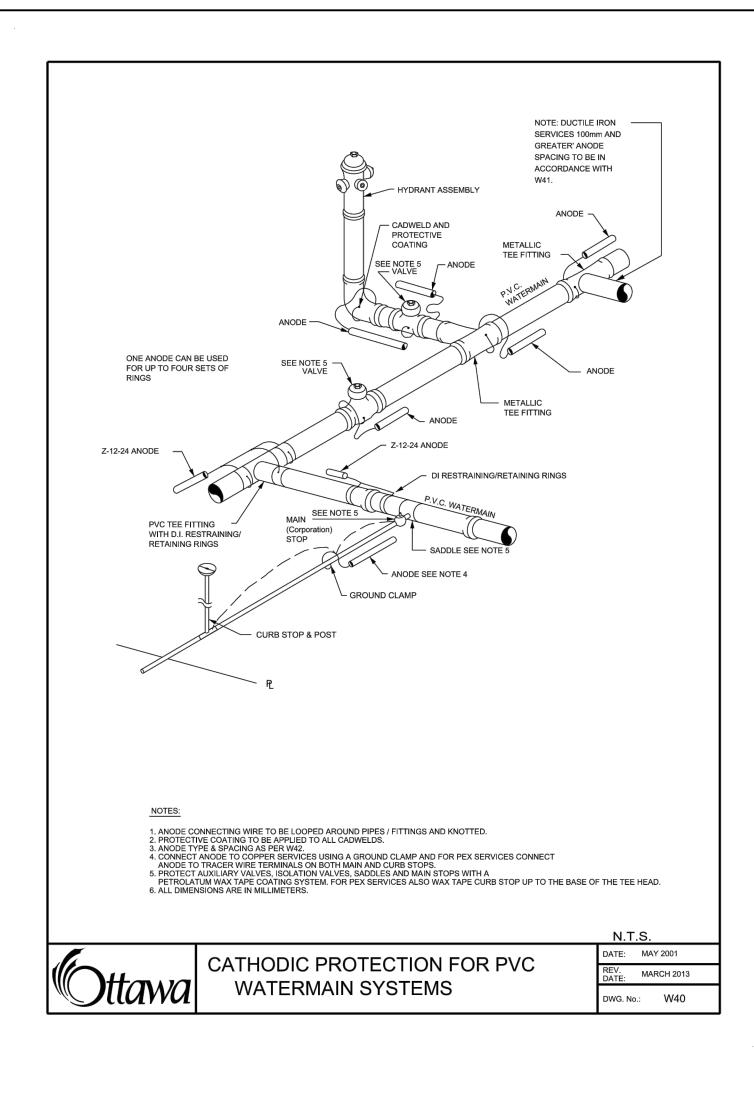
DRAWING IS TO BE READ IN CONJUNCTION WITH ALL STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL, AND OTHER CONSULTANT DRAWINGS. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE ARCHITECT. COPYRIGHT RESERVED. ALL PARTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT THE EXPRESSED PERMISSION FROM THE ARCHITECT.

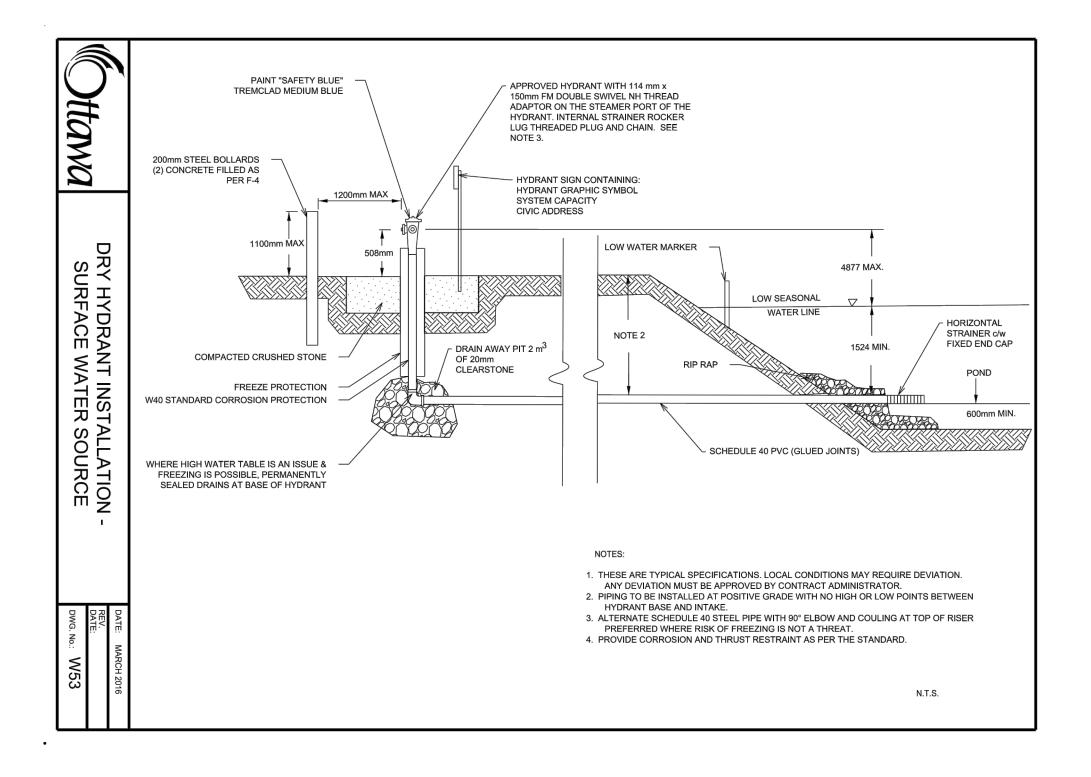


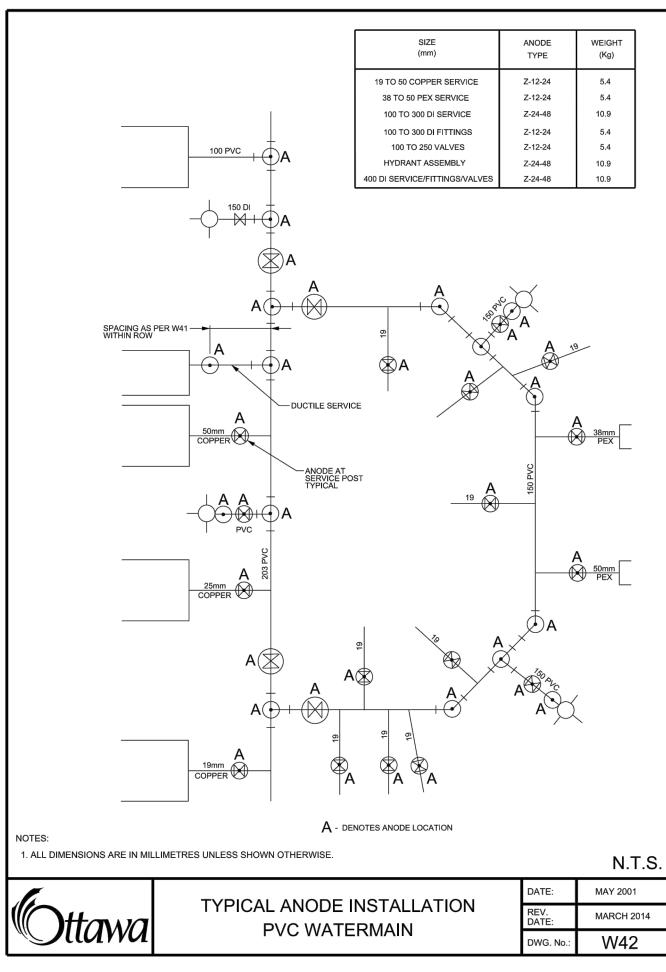


DWG. No.: S26

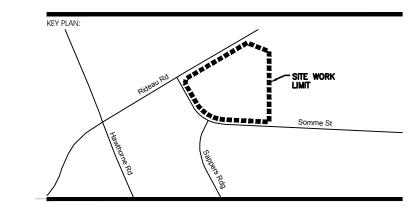


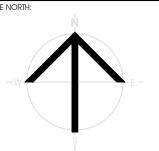




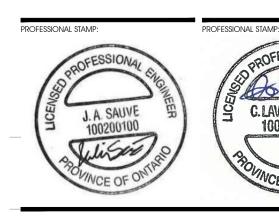








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NUMBER:	REVISION:	DATE: (MM/DD/YY)





CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742.:
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC



PROJECT IITLE:

FASTFRATE OTTAWA WAREHOUSE

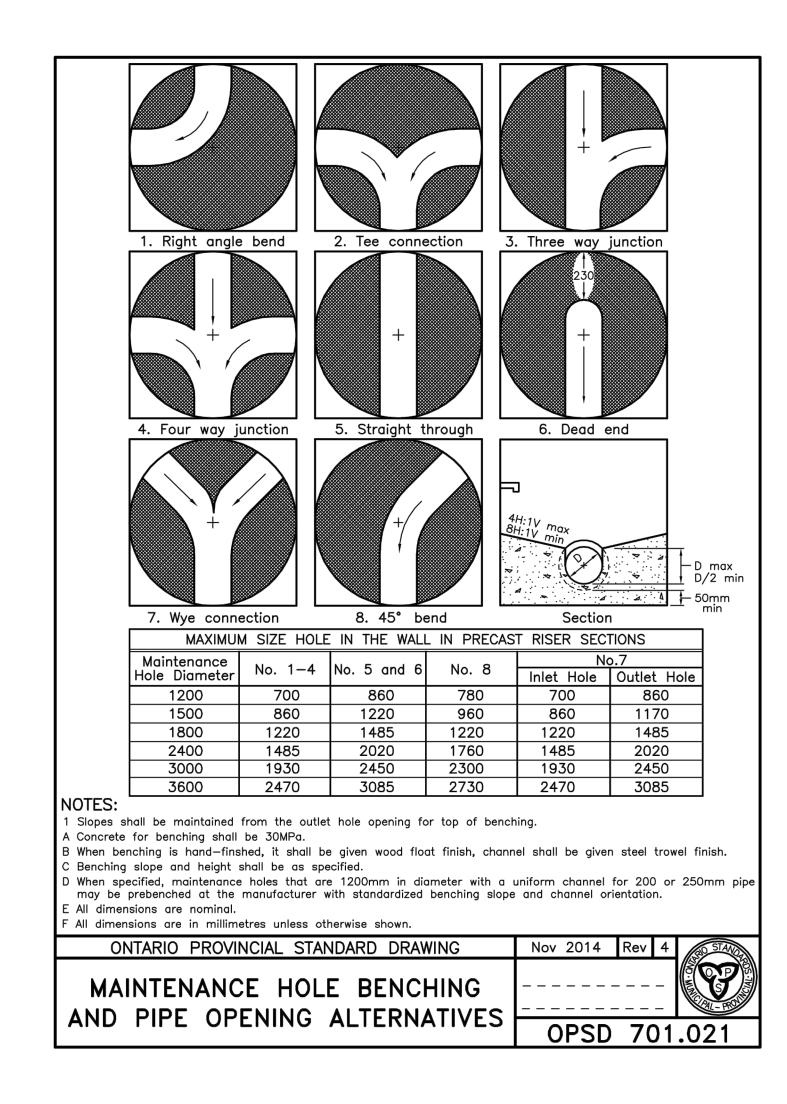
AND DISTRIBUTION FACILITY

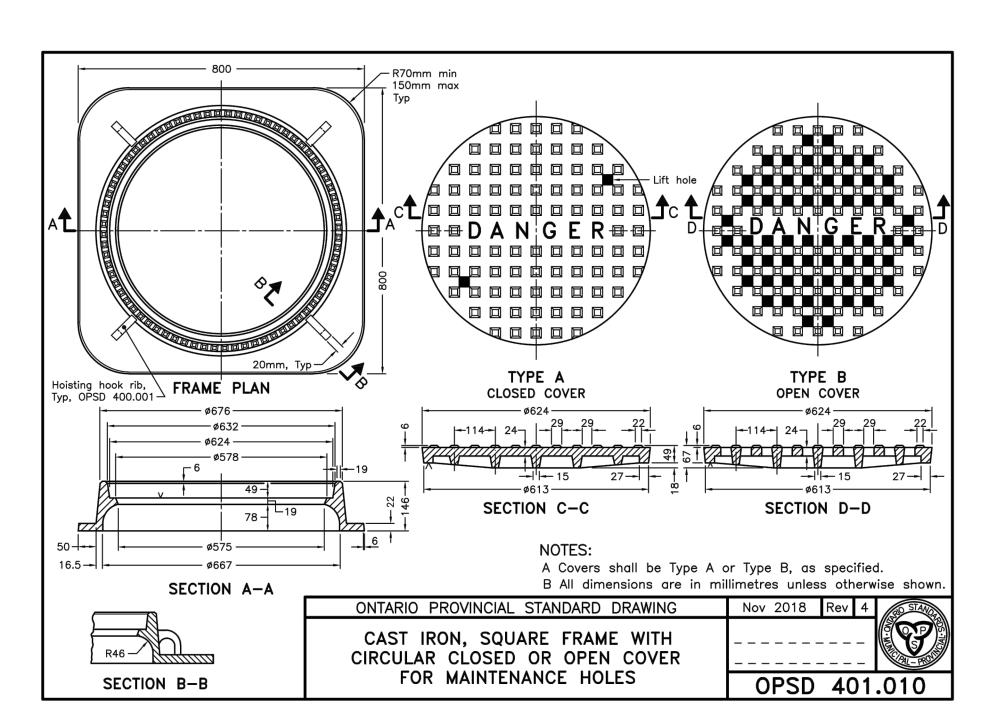
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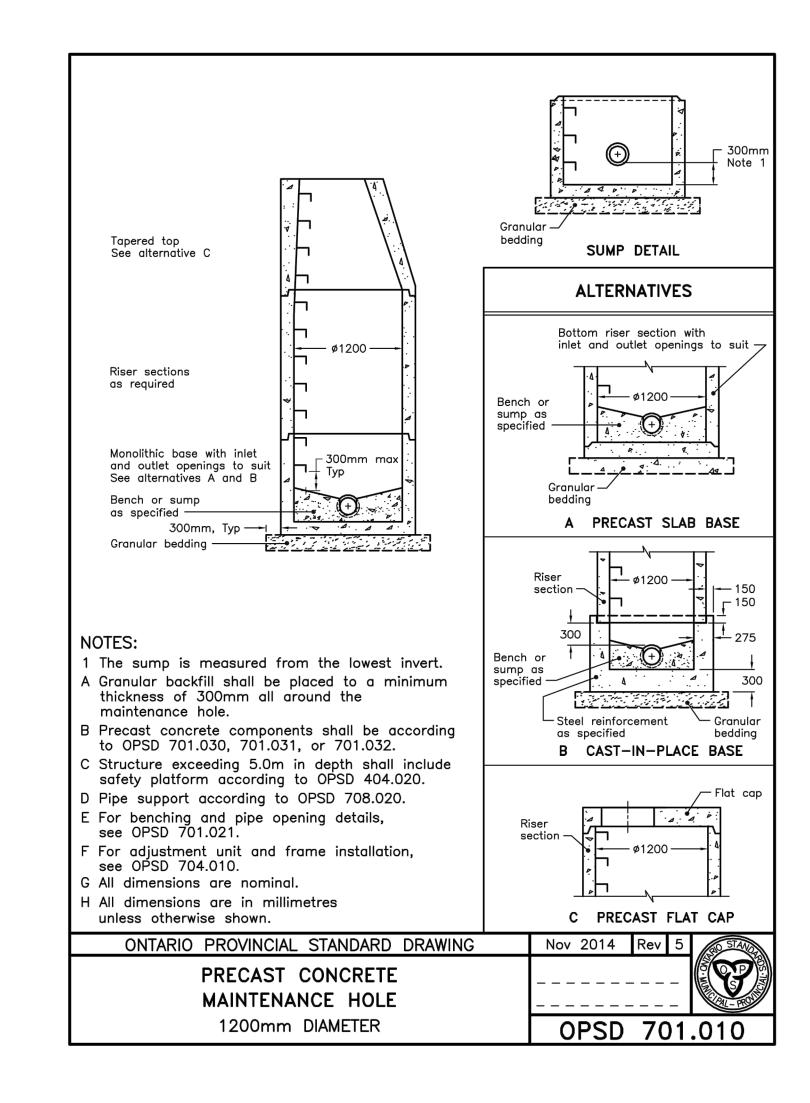
SOMME ST. OTTAWA, ON

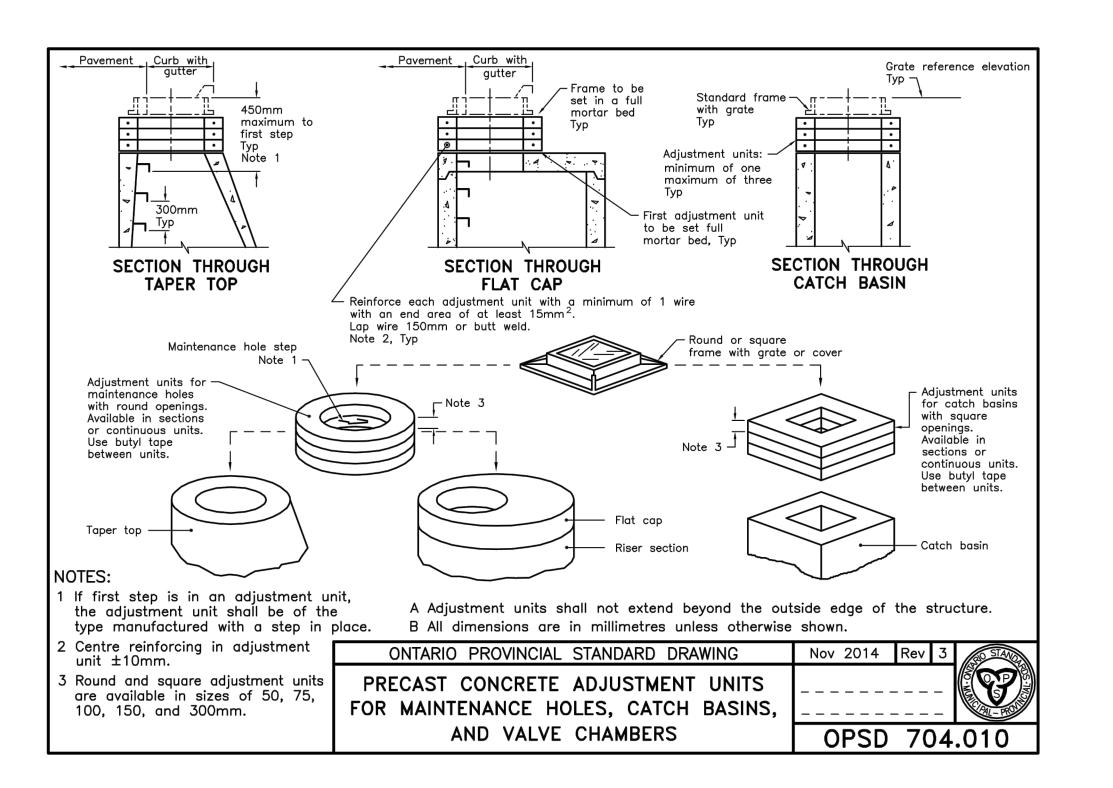
**DETAILS** 

Drawn by: Date:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	J.SAUVE	C015
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	. REVIOLOTY HOMBER.
CLIENT PROJECT #	:	PROJECT #:
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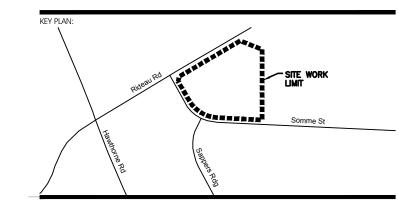








# FASTFRATE





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CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742.7482
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC.CA



PROJECT TITLE:

FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

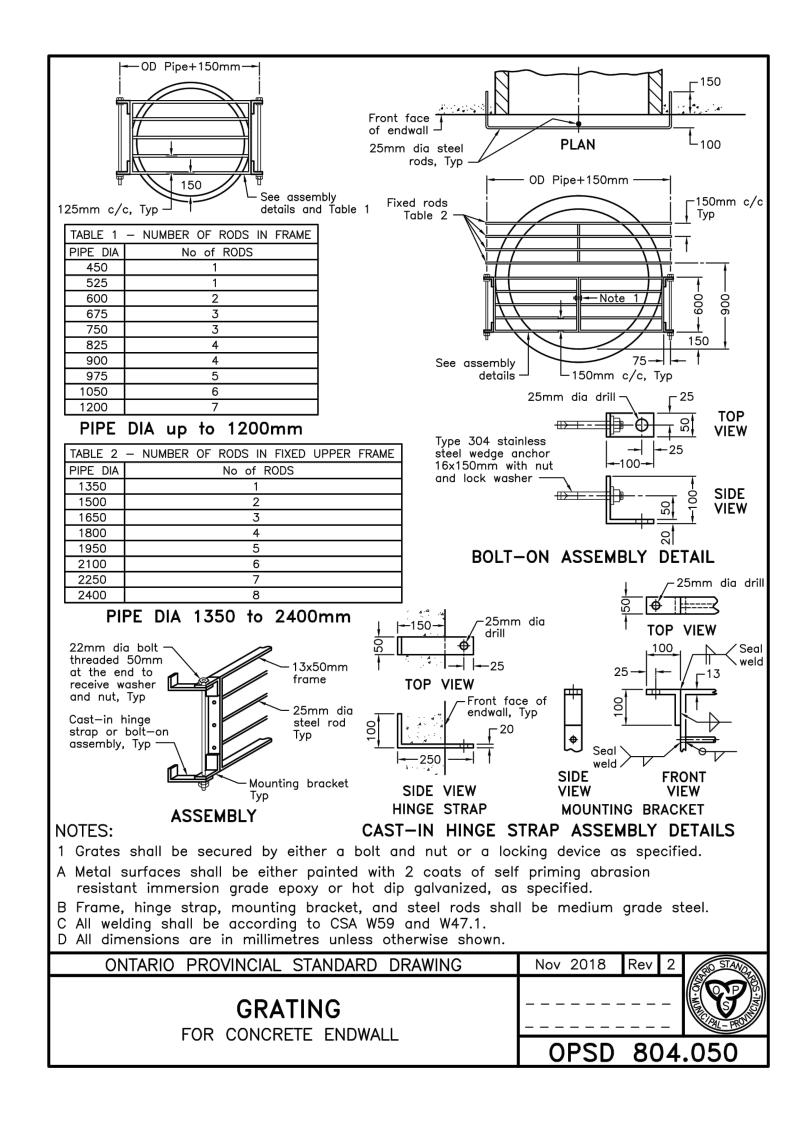
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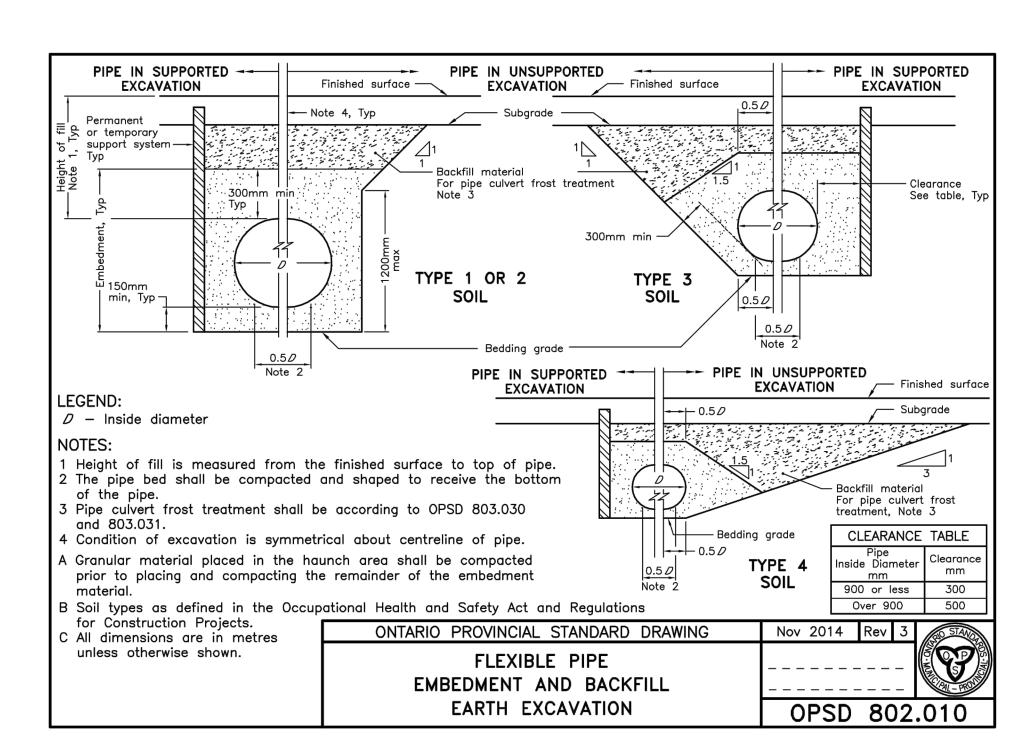
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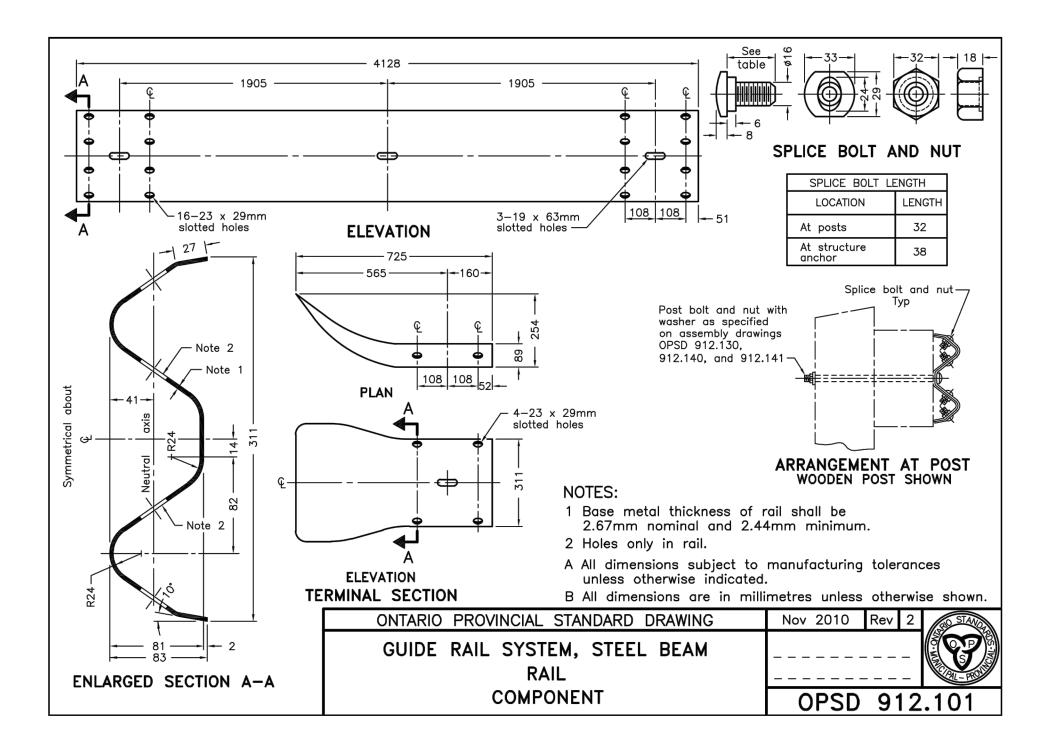
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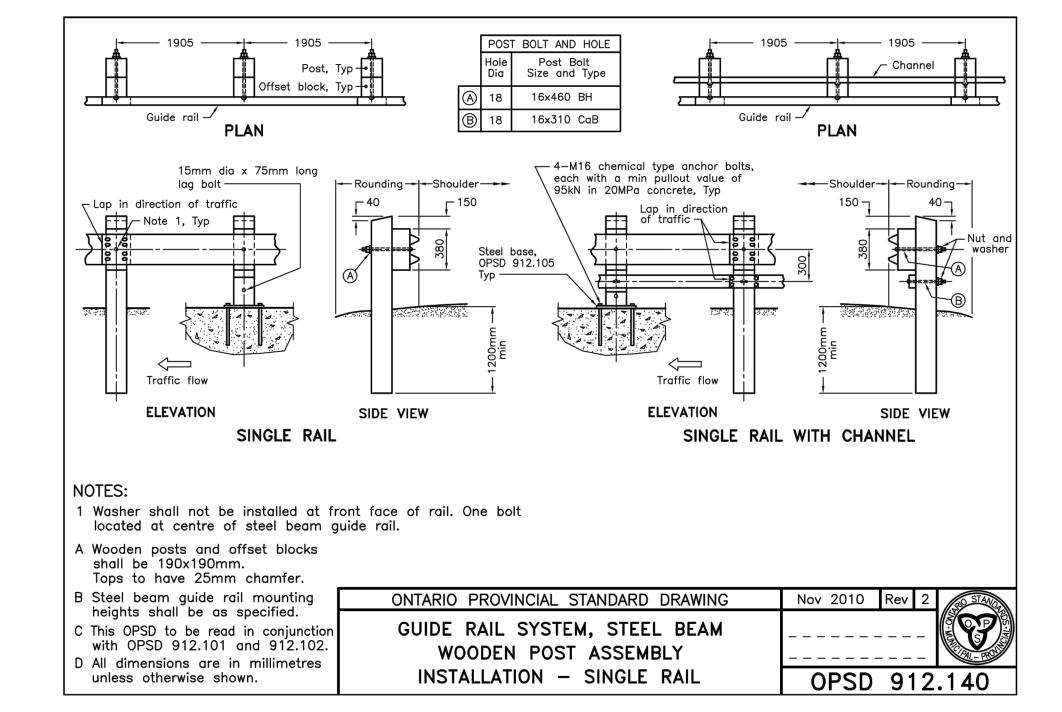
Drawn by: Date:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	J.SAUVE	C016
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	. REVIOLOTY WOMBER.
CLIENT PROJECT #:		PROJECT #:
		A001083

DO NOT SCALE THIS DRAWING. USE FIGURE DIMENSIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL STRUCTURAL, MECHANICAL, ELECTRICAL, CUTL, AND OTHER CONSULTANT DRAWINGS. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE ARCHITECT. COPYRIGHT RESERVED, ALL PARTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT THE EXPRESSED PERMISSION FROM THE ARCHITECT.

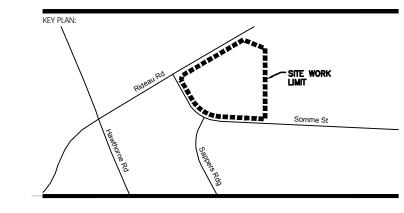






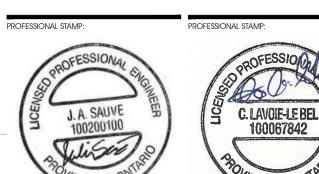


# FASTFRATE





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NUMBER:	REVISION:	DATE: (MM/DD/YY)





CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742.7482
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC.CA



PROJECT TITLE:

FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY

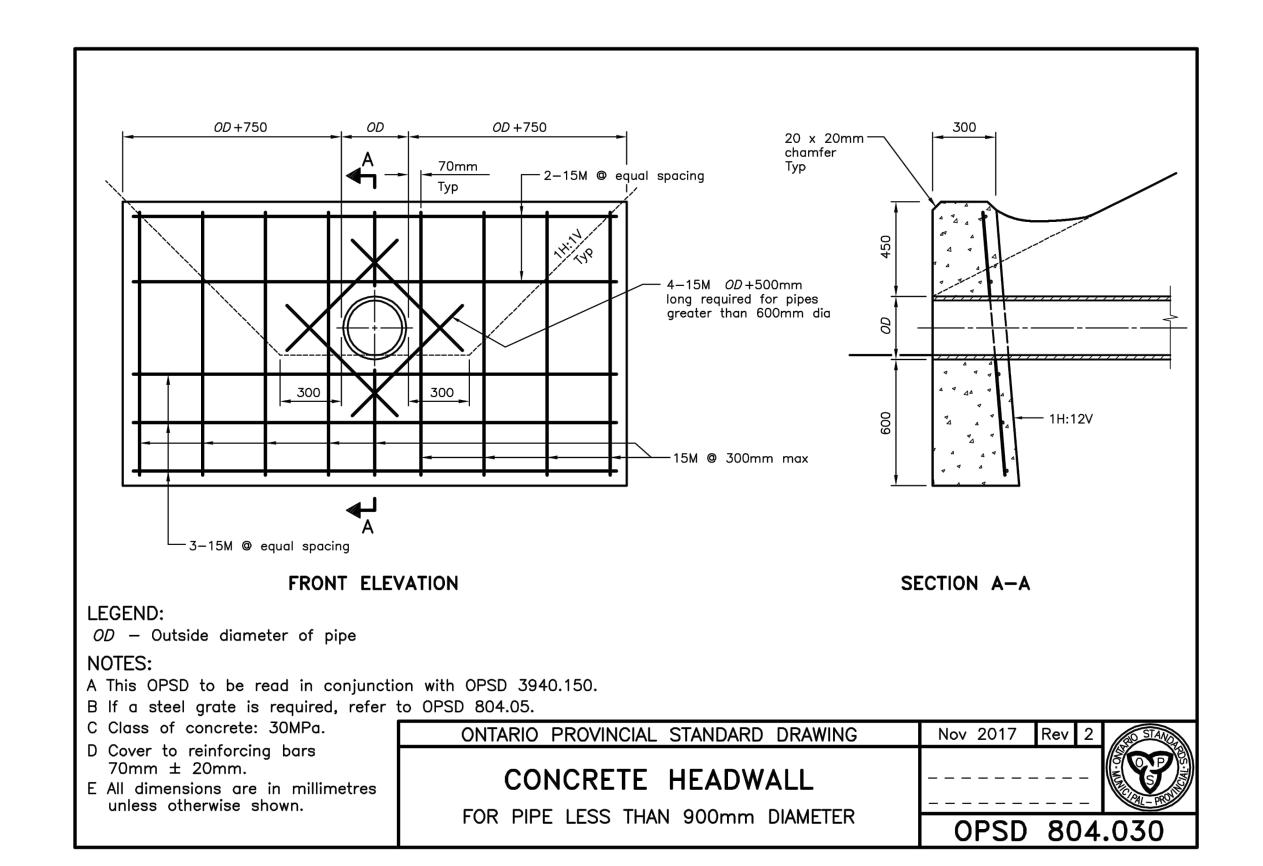
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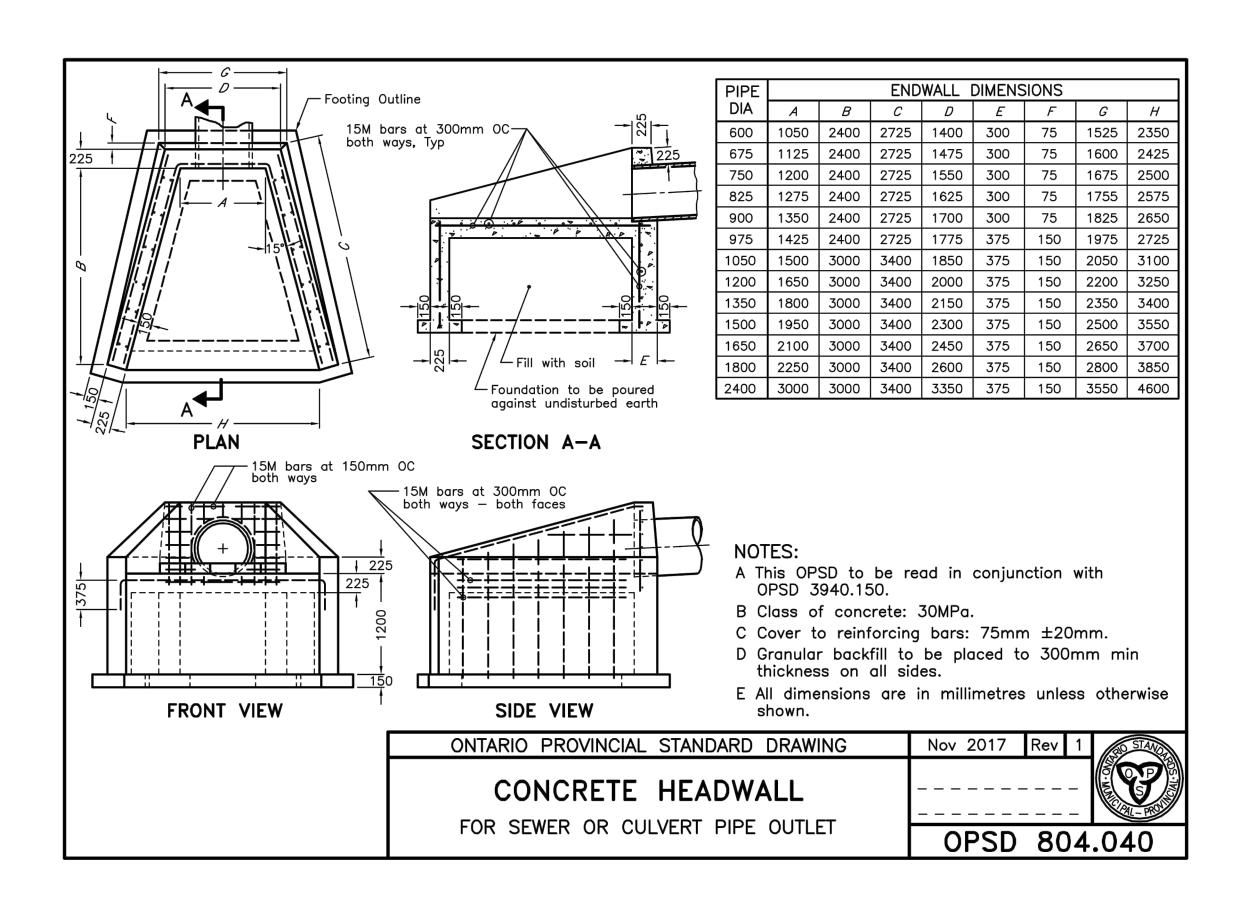
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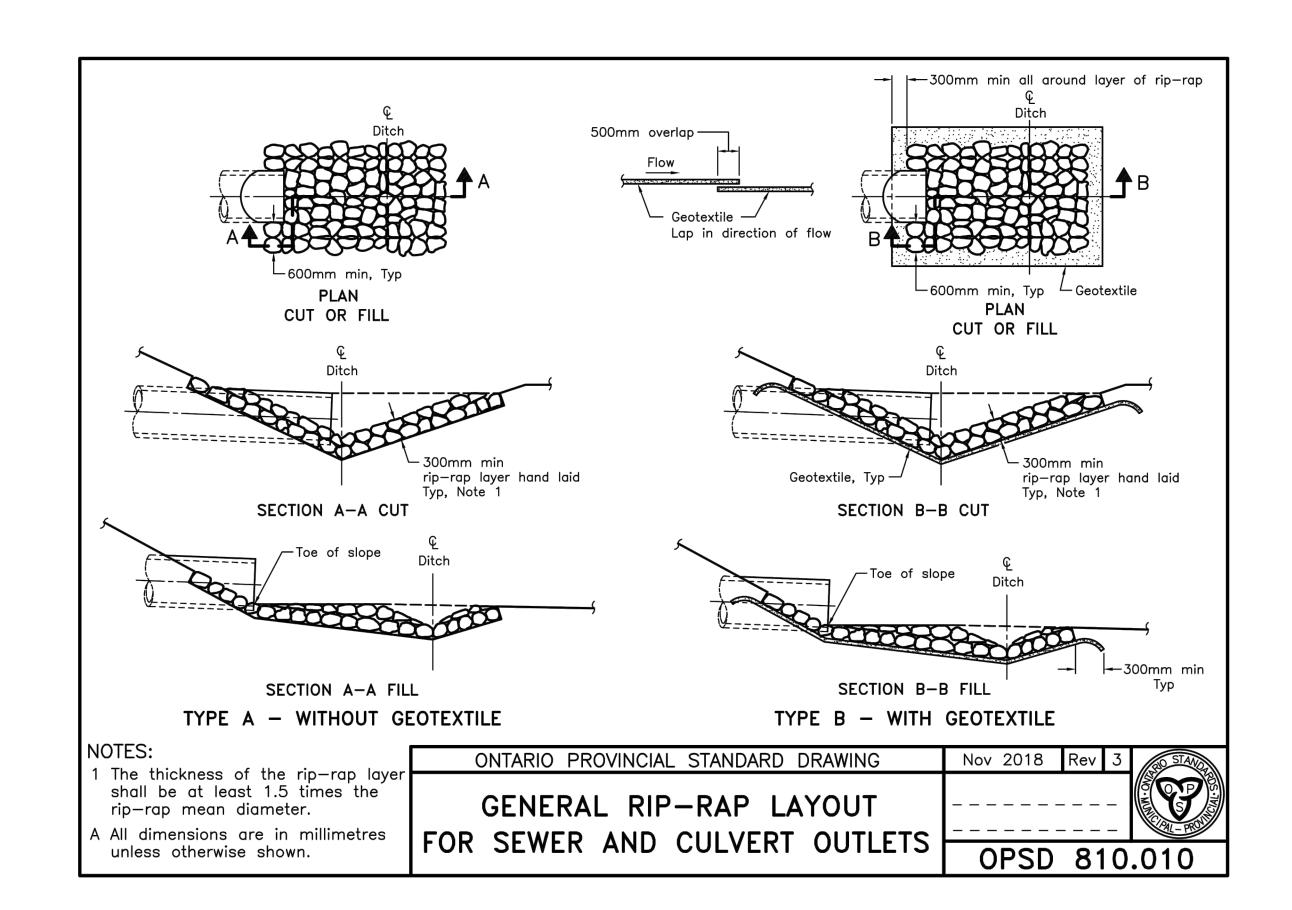
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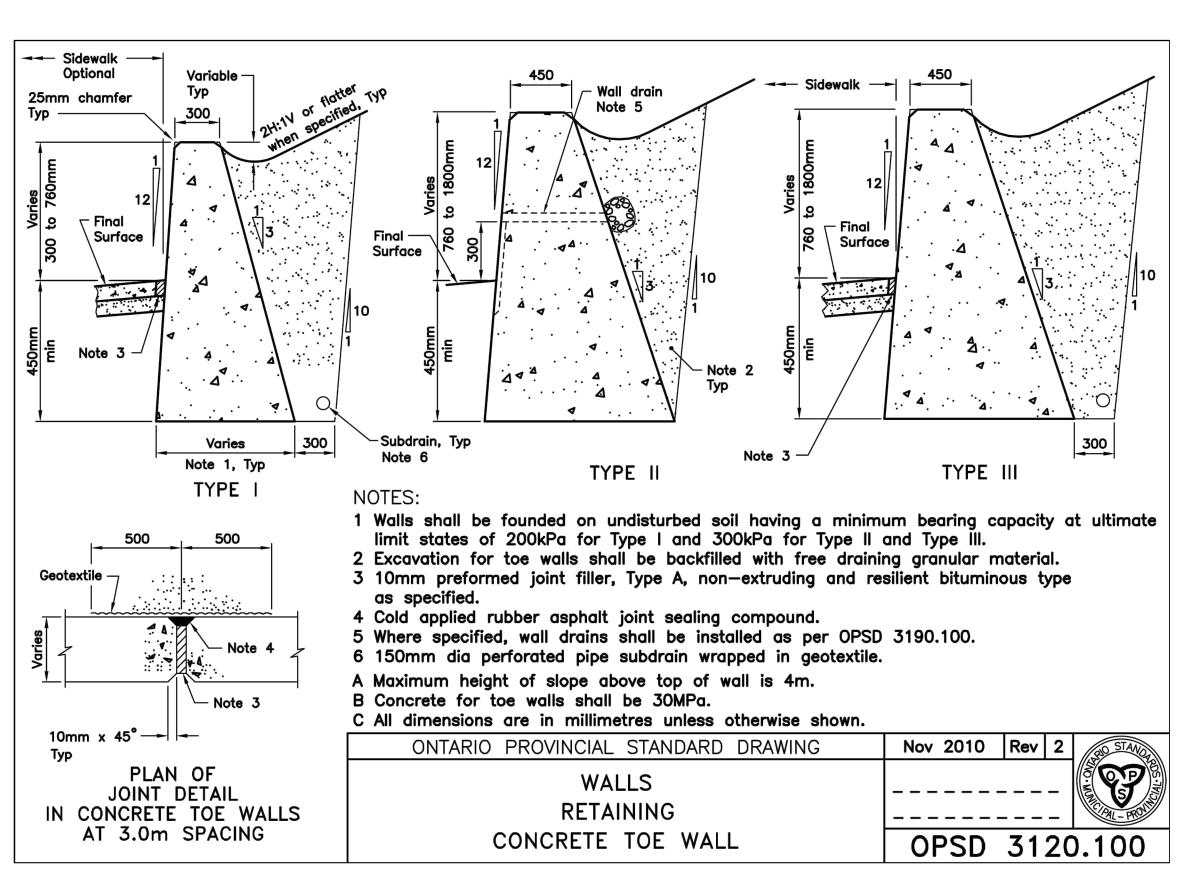
## **DETAILS**

DRAWN BY: DATE:	D.CANN	DRAWING NUMBER:
REVIEWED BY: APPROVED BY:	J.SAUVE	C017
PRINT DATE:		REVISION NUMBER:
ISSUED DATE:	AUGUST 13, 2021	REVIOLOTY THOUSIDER.
CLIENT PROJECT #:		PROJECT #: <b>A001083</b>

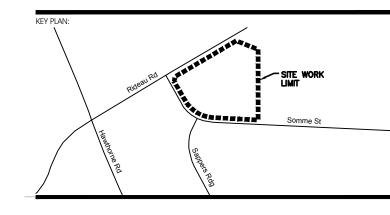






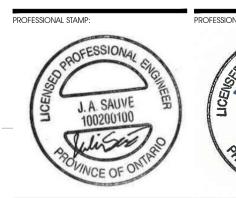








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CIVITAS ARCHITECTURE INC. OTTAWA, ON T: 613.742.:
14 CHAMBERLAIN AVENUE, SUITE 101 CANADA K1S 1V9 WWW.CIVITAS-INC



PROJECT TITLE:

FASTFRATE OTTAWA WAREHOUSE

AND DISTRIBUTION FACILITY

AND DISTRIBUTION FACILITY

SCALE: NONE

SOMME ST. OTTAWA, ON

**DETAILS** 

DRAWN BY:
DATE:

REVIEWED BY:
APPROVED BY:
PRINT DATE:
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AUGUST 13, 2021

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DIMENSIONS AND NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL, AND OTHER CONSULTANT DRAWINGS. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE ARCHITECT. COPYRIGHT RESERVED. ALL PARTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT THE EXPRESSED PERMISSION FROM THE ARCHITECT.