DYT3 GEN 3.1 BTS OTTAWA, ONTARIO 2625 SHEFFIELD ROAD

### **OWNER**

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK, SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

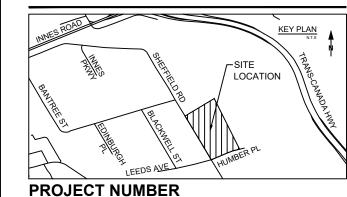
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### REGISTRATION



### ISSUE/REVISION

8	2023-03-22	REISSUED FOR SPA	
7	2023-03-21	ISSUED FOR ADD-C-01	
6	2023-03-06	ISSUED FOR BID	
5	2023-02-08	REISSUED FOR SPA	
4	2022-12-02	ISSUED FOR ADD #1	
3	2022-11-23	ISSUED FOR BID	
I/R	DATE	DESCRIPTION	



60634622

SHEET TITLE **EXISTING CONDITIONS** 

# AECON

PROJECT

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

www.aecom.com

AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax

NOTE:

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETTHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

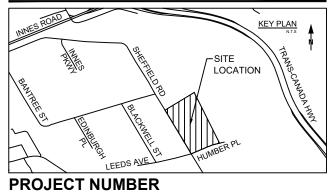
### REGISTRATION



### ISSUE/REVISION

8	2023-03-22	REISSUED FOR SPA
7	2023-03-21	ISSUED FOR ADD-C-01
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
I/R	DATE	DESCRIPTION

### KEY PLAN



### 60634622

0000-022

PROPOSED SITE GRADING AND SEDIMENT

SHEET NUMBER

AND EROSION CONTROL

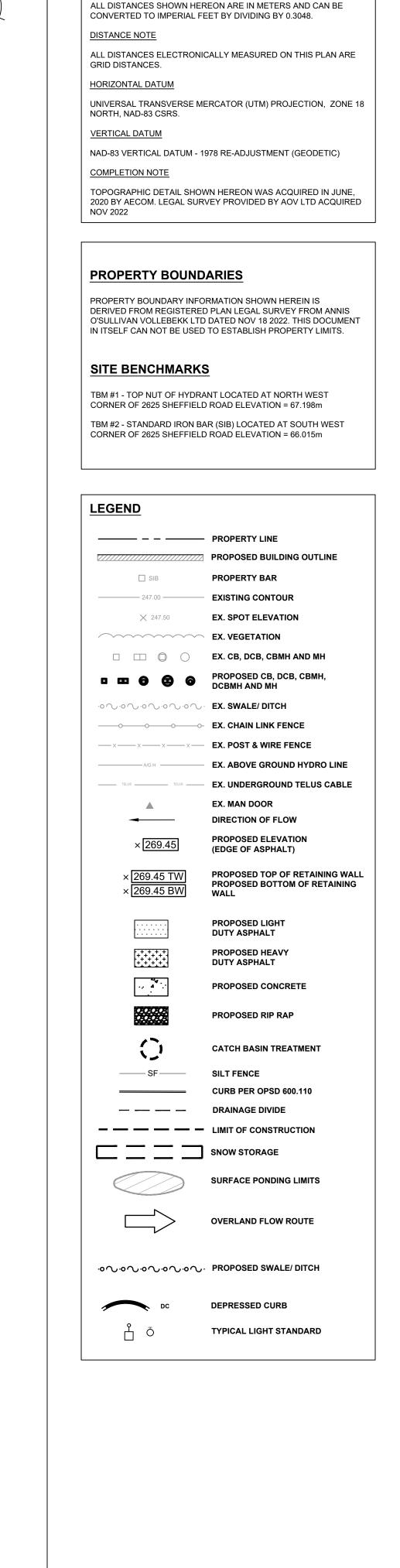
\_\_\_\_\_\_

### **SURVEY NOTES**

ALL DISTANCES SHOWN HEREON ARE IN METERS AND CAN BE

PROJECT NUMBER

SHEET TITLE



**PROJECT** 

DYT3

**OWNER** 

647 533 5057 tel

CONSULTANT

AECOM Canada Ltd.

www.aecom.com

REGISTRATION

Kitchener, Ontario, N2P 0A4

2625 SHEFFIELD ROAD

OTTAWA, ONTARIO

**CHOICE PROPERTIES REIT** 

TORONTO, Ontario, M4T 2S5

700-22 ST.CLAIR AVENUE EAST

50 Sportsworld Crossing Road, Suite 290

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF

THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK, SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

M. KULJANIN 100212232

519 650 5313 tel 519 650 3424 fax

### METRIC NOTE



ISSUE/REVISION

4 2022-12-02

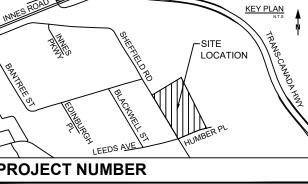
8 | 2023-03-22 | REISSUED FOR SPA

6 | 2023-03-06 | ISSUED FOR BID 5 | 2023-02-07 | REISSUED FOR SPA

3 | 2022-11-23 | ISSUED FOR BID I/R DATE DESCRIPTION

2023-03-21 | ISSUED FOR ADD-C-01

ISSUED FOR BID



60634622

PROPOSED SITE GRADING AND SEDIMENT AND EROSION CONTROL

### **SURVEY NOTES**

### METRIC NOTE

ALL DISTANCES SHOWN HEREON ARE IN METERS AND CAN BE CONVERTED TO IMPERIAL FEET BY DIVIDING BY 0.3048.

### DISTANCE NOTE

ALL DISTANCES ELECTRONICALLY MEASURED ON THIS PLAN ARE GRID DISTANCES.

UNIVERSAL TRANSVERSE MERCATOR (UTM) PROJECTION, ZONE 18

### NORTH, NAD-83 CSRS. VERTICAL DATUM

NAD-83 VERTICAL DATUM - 1978 RE-ADJUSTMENT (GEODETIC)

HORIZONTAL DATUM

COMPLETION NOTE

### TOPOGRAPHIC DETAIL SHOWN HEREON WAS ACQUIRED IN JUNE, 2020 BY AECOM. LEGAL SURVEY PROVIDED BY AOV LTD ACQUIRED NOV 2022

### **PROPERTY BOUNDARIES**

PROPERTY BOUNDARY INFORMATION SHOWN HEREIN IS DERIVED FROM REGISTERED PLAN LEGAL SURVEY FROM ANNIS O'SULLIVAN VOLLEBEKK LTD DATED NOV 18 2022. THIS DOCUMENT IN ITSELF CAN NOT BE USED TO ESTABLISH PROPERTY LIMITS.

### **SITE BENCHMARKS**

TBM #1 - TOP NUT OF HYDRANT LOCATED AT NORTH WEST CORNER OF 2625 SHEFFIELD ROAD ELEVATION = 67.198m TBM #2 - STANDARD IRON BAR (SIB) LOCATED AT SOUTH WEST CORNER OF 2625 SHEFFIELD ROAD ELEVATION = 66.015m

### LEGEND

<u> </u>	PROPOSED BUILDING OUTLINE
	PROPERTY LINE
SIB	PROPERTY BAR
247.00 —	EX. CONTOUR
× 247.50	EX. SPOT ELEVATION
~~~~~~	EX. VEGETATION
	EX. CB, DCB, CBMH AND MH
.0~.0~.0~.0~.0~.	EX. SWALE/ DITCH
	EX. CHAIN LINK FENCE
xxxx	EX. POST & WIRE FENCE
A/G H	EX. ABOVE GROUND HYDRO LIN
TELUS TELUS	EX. UNDERGROUND TELUS CAE
· · · · · · · · · · · ·	PROPOSED CB, DCB, CBMH, DCBMH AND MH
	PROPOSED PVC STORM SEWER (LESS THAN 450mm DIA.)
=====	PROPOSED CONCRETE STORM SEWER (450mm DIA. AND LARG
	INSULATION ON STORM SEWER (AS PER DETAIL W22 ON D103)

# CROSSING TABLE

DIRECTION OF SEWER FLOW

PROPOSED BARRIER CURB

(AS PER OPSD 600.110)

LIMIT OF CONSTRUCTION

TYPICAL LIGHT STANDARD

CROSSING	PIPE INVERTS	CLEARANCE
C1	WM INV. = 65.40 SAN OBV. = 64.90	0.50
C2	SAN INV. = 65.52 STM OBV. = 65.42	0.10
C3	WM INV. = 65.40 STM OBV. = 64.48	0.92
C4	WM INV. = 65.74 STM OBV. = 65.24	0.50
C5	WM INV. = 65.561 STM OBV. = 65.311	0.25
C6	WM INV. = 65.20 STM OBV. = 64.95	0.25
C7	WM INV. = 65.47 STM OBV. = 65.22	0.25
C8	EX. STM INV. = 64.29 SAN OBV. = 63.75	0.54

EXISTING WATERMAIN TO BE DEFLECTED USING VERTICAL BENDS TO ACHIEVE MIN SEPARATION OF 0.25m ABOVE AND 0.5m BELOW AS PER CITY OF OTTAWA W25 AND W25.2 . INSULATED PIPES TO INSULTED AS PER CITY OF OTTAWA W22. CONTRACTOR TO ADVISE TESTING AGENCY FOR FIELD REVIEW AND APPROVAL AND COORDINATE ANY SHUT DOWN WITH OWNER AND/OR MUNICIPALITY.

\* CONTRACTOR TO CONFIRM LOCATION AND DEPTH V=1:500

**PROJECT** 

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

**CHOICE PROPERTIES REIT** 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

www.aecom.com

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK, SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

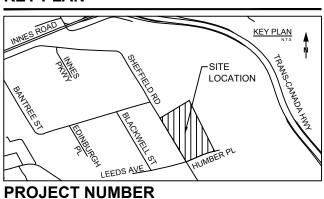
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### REGISTRATION



# ISSUE/REVISION

100	IOOOL/IXE VIOIOIN				
8	2023-03-22	REISSUED FOR SPA			
7	2023-03-21	ISSUED FOR ADD-C-01			
6	2023-03-06	ISSUED FOR BID			
5	2023-02-07	REISSUED FOR SPA			
4	2022-12-02	ISSUED FOR BID			
3	2022-11-23	ISSUED FOR BID			
I/R	DATE	DESCRIPTION			



### 60634622

SHEET TITLE

PROPOSED SITE SERVICING

### **SURVEY NOTES**

ALL DISTANCES SHOWN HEREON ARE IN METERS AND CAN BE

ALL DISTANCES ELECTRONICALLY MEASURED ON THIS PLAN ARE

UNIVERSAL TRANSVERSE MERCATOR (UTM) PROJECTION, ZONE 18

NAD-83 VERTICAL DATUM - 1978 RE-ADJUSTMENT (GEODETIC)

### TOPOGRAPHIC DETAIL SHOWN HEREON WAS ACQUIRED IN JUNE, 2020 BY AECOM. LEGAL SURVEY PROVIDED BY AOV LTD ACQUIRED

PROPERTY BOUNDARY INFORMATION SHOWN HEREIN IS DERIVED FROM REGISTERED PLAN LEGAL SURVEY FROM ANNIS O'SULLIVAN VOLLEBEKK LTD DATED NOV 18 2022. THIS DOCUMENT IN ITSELF CAN NOT BE USED TO ESTABLISH PROPERTY LIMITS.

TBM #1 - TOP NUT OF HYDRANT LOCATED AT NORTH WEST CORNER OF 2625 SHEFFIELD ROAD ELEVATION = 67.198m

PROPERTY LINE PROPERTY BAR **EX. CONTOUR EX. SPOT ELEVATION EX. VEGETATION** □ □ □ □ EX. CB, DCB, CBMH AND MH  $\cdot \circ \wedge \cdot \circ$  EX. SWALE/ DITCH EX. CHAIN LINK FENCE EX. POST & WIRE FENCE **EX. ABOVE GROUND HYDRO LINE** 

# PROPOSED CB, DCB,

PROPOSED PVC STORM SEWER (LESS THAN 450mm DIA.) PROPOSED CONCRETE STORM **INSULATION ON STORM SEWER** (AS PER DETAIL W22 ON D103)

PROPOSED BARRIER CURB LIMIT OF CONSTRUCTION

TYPICAL LIGHT STANDARD

**PROJECT** 

## DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

**CHOICE PROPERTIES REIT** 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

AECOM Canada Ltd.

50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

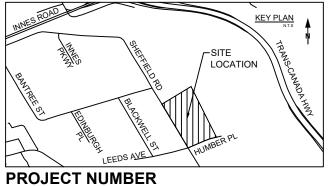
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### REGISTRATION



### **ISSUE/REVISION**

8	2023-03-22	REISSUED FOR SPA
7	2023-03-21	ISSUED FOR ADD-C-01
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
I/R	DATE	DESCRIPTION



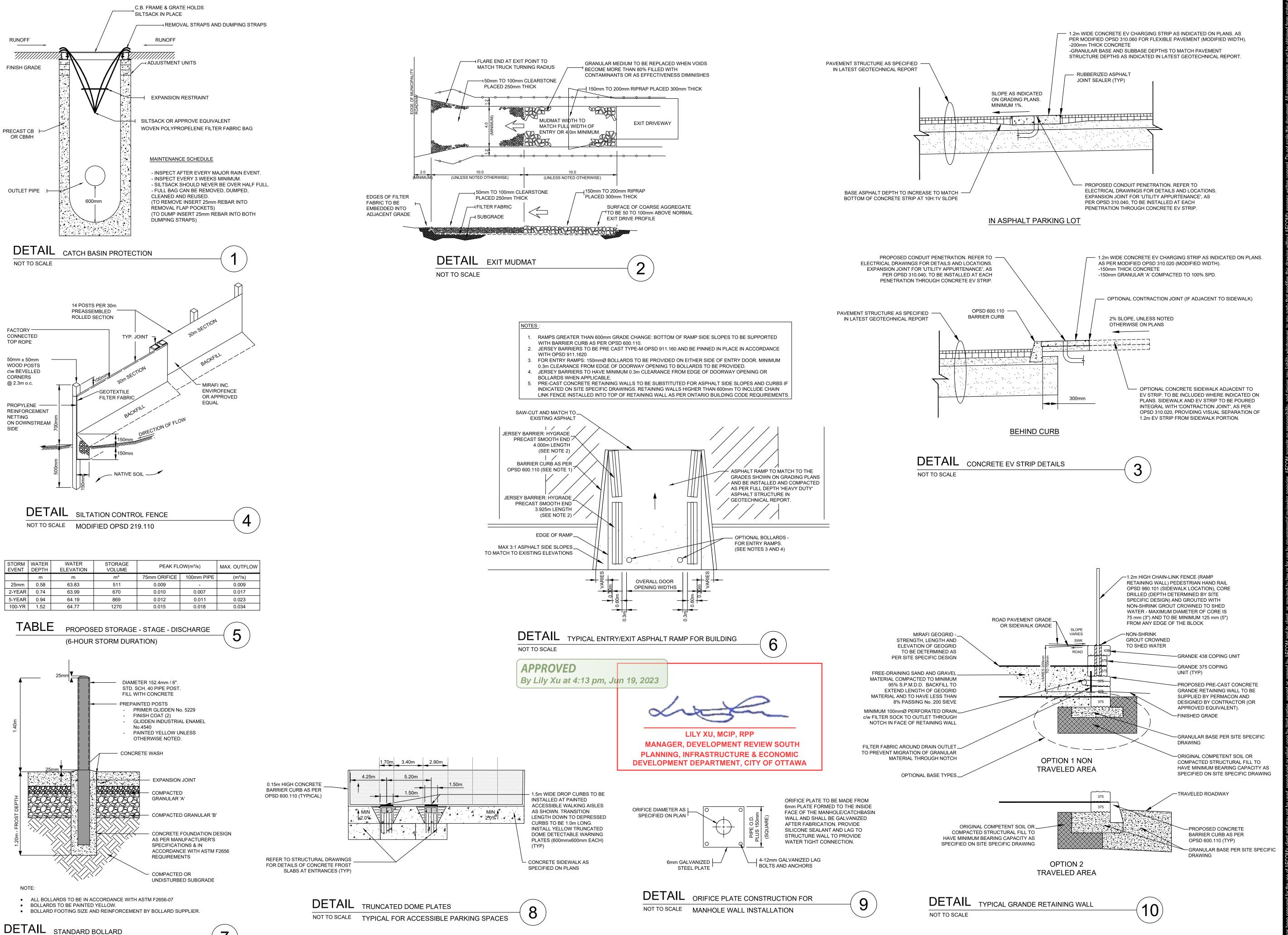
60634622

## SHEET TITLE

PROPOSED SITE SERVICING



NOT TO SCALE



**PROJECT** 

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

**CHOICE PROPERTIES REIT** 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

www.aecom.com

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK, SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

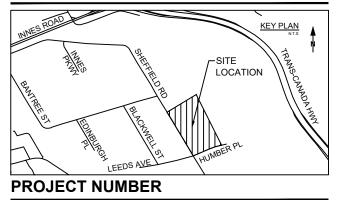
### REGISTRATION



### ISSUE/REVISION

7	2023-03-22	REISSUED FOR SPA
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
2	2022-10-07	ISSUED FOR SPA
I/R	DATE	DESCRIPTION

### **KEY PLAN**



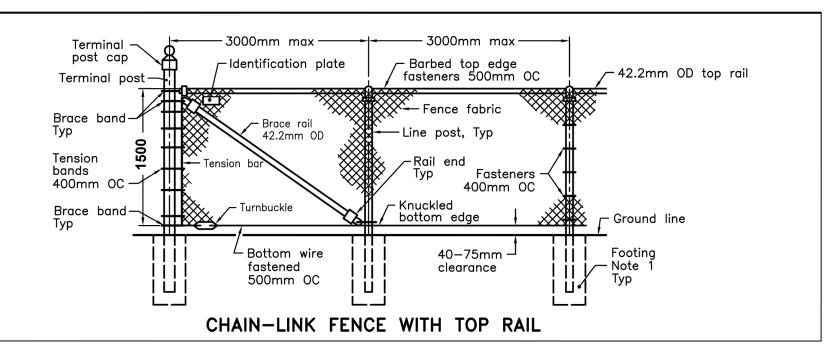
60634622

SHEET TITLE

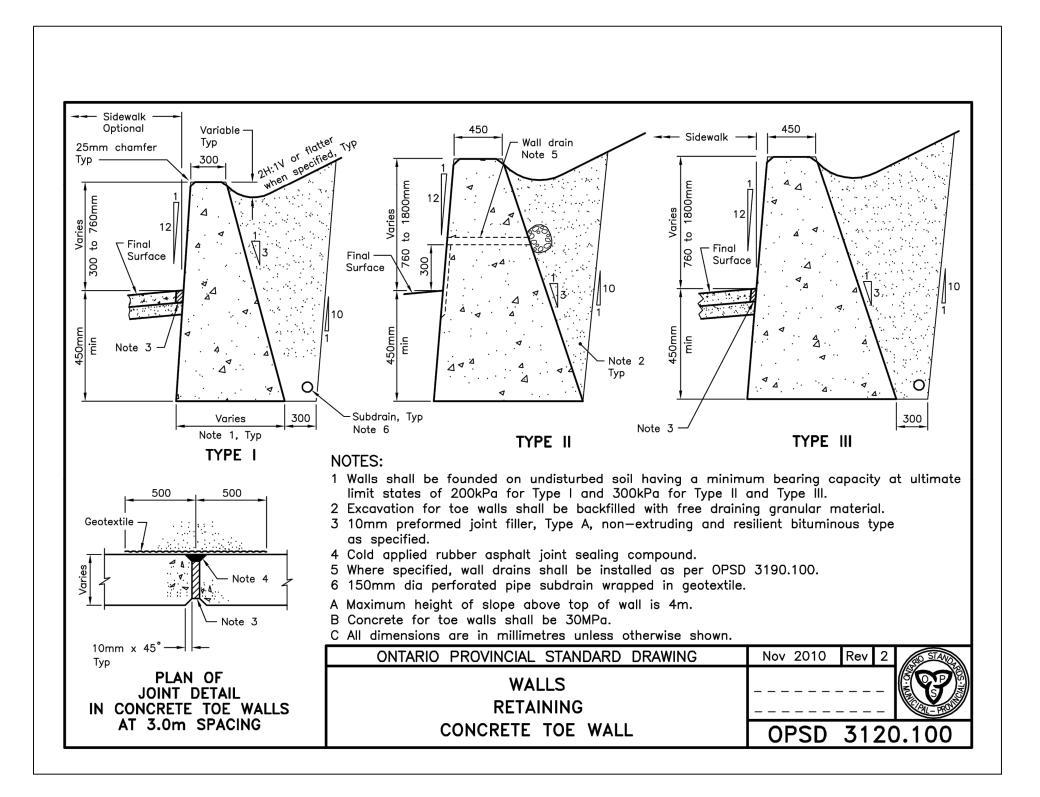
**GENERAL CIVIL DETAILS** 

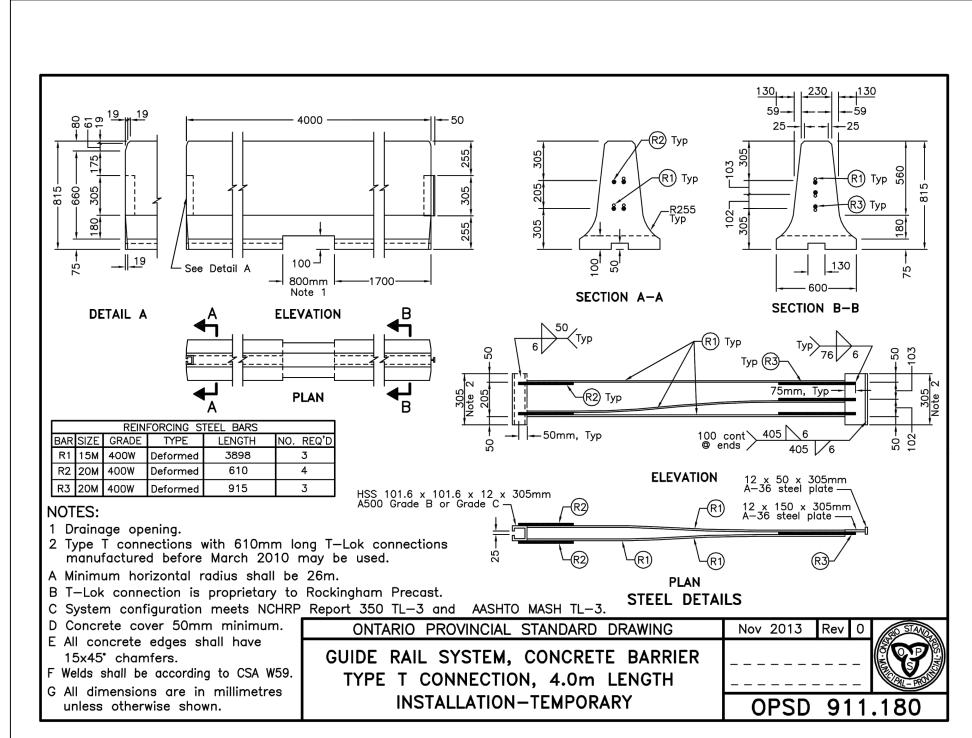
SHEET NUMBER

D100



DETAIL 1.5m CHAIN LINK FENCE NOT TO SCALE MODIFIED OPSD 972.130





DETAIL A A ELEVA	mm 1700———	R2 Typ R2 Typ R255 Typ SECTION A-A	130 59 25 
REINFORCING STEEL BARS	305 Note 2 205 50	R2 Typ	Typ R3 Typ 76 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
BAR SIZE         GRADE         TYPE         LENGTH         NO. RI           R1         15M         400W         Deformed         3898         3           R2         20M         400W         Deformed         610         4           R3         20M         400W         Deformed         915         3           NOTES:           1         Drainage opening.	HSS 101.6 x 101.6 x 12 A500 Grade B or Grade C	ELEVATION × 305mm	12 x 50 x 305mm A-36 steel plate A-36 steel plate
<ul> <li>2 Type T connections with 610mm Ion manufactured before March 2010 m</li> <li>A Minimum horizontal radius shall be 2</li> <li>B T-Lok connection is proprietary to F</li> <li>C System configuration meets NCHRP</li> <li>D Concrete cover 50mm minimum.</li> </ul>	ay be used. & 26m. Rockingham Precast. Report 350 TL—3 and AASI	PLAN STEFL DETA	AILS    Nov 2013   Rev   0   STAN
E All concrete edges shall have 15x45° chamfers. F Welds shall be according to CSA W59. G All dimensions are in millimetres unless otherwise shown.	GUIDE RAIL SYSTEM	M, CONCRETE BARRIER TION, 4.0m LENGTH DN-TEMPORARY	OPSD 911.180

# TABLE PROPOSED STORM STRUCTURE TABLE

	STR	UCTURE	TABLE			
STRUCTURE NAME	STRUCTURE TYPE	GRATE TYPE	FINISHED COVER ELEVATION		INVER	TS
MH 1A (MONITORING)	OPSD 701.010	OPSD 400.020	64.441	SW NE	63.884 63.890	250mmØ 250mmØ
MH 2A	OPSD 701.010	OPSD 400.020	67.382	N SW SE	64.012 64.006 64.012	250mmØ 250mmØ 250mmØ
МН ЗА	OPSD 701.010	OPSD 400.020	67.258	S NE	64.702 65.302	250mmØ 250mmØ
MH 4A	OPSD 701.010	OPSD 400.020	67.370	SE NW	65.822 65.762	250mmØ 250mmØ
MH 5A	OPSD 701.010	OPSD 400.020	67.407	NW NE	66.850 66.910	250mmØ 250mmØ

TABLE PROPOSED SANITARY STRUCTURE TABLE

STRUCTURE TABLE

TYPE

OPSD 400.020

OPSD 401.010

OPSD 400.020

OPSD 401.010

OPSD 400.020

OPSD 400.020

OPSD 400.020

OPSD 401.101

OPSD 400.020

OPSD 400.020

OPSD 400.020

OPSD 401.101

OPSD 401.101

OPSD 401.010

OPSD 401.101

STRUCTURE

NAME

CBMH 1

MH 30

CBMH 2

CBMH 3

CBMH 5

CBMH 6

CBMH 7

CBMH 8

CB 10

CBMH 11

CBMH 12

MH 27

CB 29

CBMH 14

CBMH 15

DCBMH 16

CBMH 18

MH 24

MH 25

MH 26

CB 27

CB 28

CBMH 19

MH 20

CBMH 21

CBMH 22

CB 23

MH 44

MH 45

OGS 1

OGS 2

STRUCTURE TYPE

OPSD 701.012

OPSD701.011

OPSD 701.010

OPSD 701.010

OPSD 705.010

OPSD 701.011

OPSD 701.010

OPSD 701.010

OPSD 705.010

OPSD 701.010

OPSD 705.010

OPSD 701.010

OPSD 705.010

OPSD 701.010

OPSD 701.010

OPSD.701.011

OPSD 701.011

OPSD 701.011

OPSD 701.020

OPSD. 701.012

OPSD 705.010

OPSD 705.010

OPSD 701.010

OPSD 701.010

OPSD 701.010

OPSD 701.010

OPSD 705.010

OPSD 701.010

OPSD 701.010

ADS FD-5HC

ADS FD-5HC

FINISHED

COVER

**ELEVATION** 

66.656

65.743

66.319

66.322

66.521

67.043

67.257

67.286

66.669

INVERTS

N 63.687 600mmØ

SW 63.537 750mmØ

NW 63.792 600mmØ

NW 64.117 600mmØ

SE 64.417 600mmØ

N 64.477 600mmØ

W 63.912 525mmØ

NW 63.972 525mmØ

SE 64.272 525mmØ

NW 64.332 525mmØ

SE 64.632 525mmØ

NW 64.692 525mmØ

SW 63.793 375mmØ

SE 63.868 300mmØ NW 63.643 525mmØ

NW 63.909 300mmØ

NE 63.969 375mmØ

SW 64.134 375mmØ

SW 64.106 525mmØ

NE 64.166 525mmØ

SW 64.466 525mmØ

NE 64.526 525mmØ

SW 64.798 525mmØ

64.134

64.580

64.737

NE 64.737 450mmØ

SE 64.737 450mmØ

W 65.041 450mmØ

SE 64.727 450mmØ

NW 64.779 450mmØ

NW 64.962 450mmØ

SE 65.022 450mmØ

NW 65.322 450mmØ

SE 65.382 300mmØ

SW 63.512 375mmØ

SE 63.073 375mmØ

NW 64.024 200mmØ

SE 63.053 375mmØ

NW 63.053 375mmØ

NE 63.461 375mmØ

64.575 200mmØ

NE 64.284

SW 64.505

W 64.662

N 64.667

SE 64.839

67.127 NW 65.897 300mmØ

E 63.737

NW 63.198

SW 63.461

66.827 SW 65.065

64.050 750mmØ

64.434 450mmØ

750mmØ

600mmØ

600mmØ

525mmØ

450mmØ

450mmØ

450mmØ

300mmØ

300mmØ

SE 64.057

66.738 SE 65.114 525mmØ

66.736 SE 65.329 450mmØ

65.743 NE 64.043 375mmØ

63.762 525mmØ

63.732 600mmØ

600mmØ

	LOCKED ACCESS COVER —		
	250mmØ PVC OBSERVATION/MAINTENANCE PORT (PERFORATED PIPE ONLY WITHIN—STONE TRENCH AREA) (WHERE APPLICABLE)  CLAY OR BENTONITE COLLAR TO PREVENT WATER MIGRATION (BOTTOM OF TRENCH TO 1m ABOVE PIPE)	375mm DUAL WALL HDPE PIPE, AS PER CSA B182.8  WITH AASHTO CLASS II PERFORATIONS WITH GEOTEXTILE SOCK  CLEAN OUT (INSTALLED IN CONCRETE OR ASPHALT WITH  THE LOADING CAPACITY OF H-20	NISHED GROUND LEVEL
BUILDING FOUNDATION REFER TO STRUCTURAL PLANS FOR DETAILS  REFER TO MECHANICAL PLANS FOR DETAILS	375mmØ PVC @ 2.0% STORM LATERAL	LOADING)  MIRAFI 160N OR APPRI	OVED EQUAL NON-WOVEN NIMUM 300mm OVERLAP
PROVIDE 100mm MIN. SEPARATION. USE NON-SHRINK FILL BETWEEN UNDERSIDE OF FOOTING AND TOP OF STORM PIPE.	INV. = +0.19 FROM OUTLET		
PROPOSED 375mmØ PVC STORMWATER PIPE BEDDING AS PER OPSD 802.010	DETAIL ROOF DRAINAGE INFILTRATION	50mm CLEAR STONE  BASIN (TYP)  GROUNDWATER ELEV	VATION (03/15/22, BH-S1): 62.74 mASL  MANAGER, DEVE PLANNING, INFRAS

NOTE: TO BE INSTALLED WITH

TRIPLE STRAND BARB WIRE

OPSD 972.101

**12**]

LILY XU, MCIP, RPP MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, INFRASTRUCTURE & ECONOMIC **DEVELOPMENT DEPARTMENT, CITY OF OTTAWA** 

**PROJECT** 

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### **CONSULTANT**

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

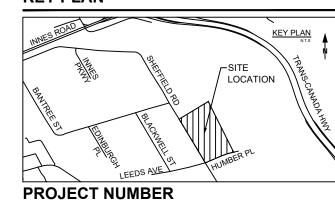
### **REGISTRATION**



### ISSUE/REVISION

100	IOOOL/INE VIOIOIN		
8	2023-03-22	REISSUED FOR SPA	
7	2023-03-21	ISSUED FOR ADD-C-01	
6	2023-03-06	ISSUED FOR BID	
5	2023-02-07	REISSUED FOR SPA	
4	2022-12-02	ISSUED FOR BID	
3	2022-11-23	ISSUED FOR BID	
I/R	DATE	DESCRIPTION	

### **KEY PLAN**



60634622

D101

SHEET TITLE

STRUTURE TABLES, STORMWATER AND FENCE DETAILS

NOTE 1

BACKWATER VALVE

MAKE SURE THE .:

IS TIGHTLY

SPECIFICATIONS

NOTES:

PER MANUFACTURERS :

VALVE COVER

SECURED AS

SANITARY

SANITARY\_



Approved 22.5° radius bends as required

2% min desirable

SECTION A-A

SANITARY BACKWATER VALVE

I. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm

2. JOINTS BETWEEN THE ACCESS BOX SECTIONS AND THE ACCESS BOX AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE

COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS

COMPONENTS GENERALLY LOCATED ALONG FRONT SIDE OF HOUSE

FOUNDATION DRAIN

- STORM BACKWATER VALVE SEE S14

— NOTE 2

FLOW DIRECTION TO THE

CONCRETE FOOTING

CONCRETE FOOTING

CONCRETE FOUNDATION WALL

**—** 

. MARCH 2011 DWG. No.: \$14.1

Note 2

DATE: MARCH 2010

CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

I. SEE MS-22.15 FOR ALTERNATE APPROVED FITTING MANUFACTUERS

CAST IRON FRAME

- 3/8" THREADED HOLE

SECTION A - A

POR DITCHED PIPE APPLICATIONS, TOP OF CB SHALL BE MIN. 5cm ABOVE BOTTOM OF THE DITCH/SWALE AND BE LOCATED MIN. 2m FROM EDGE OF PAVEMENT.

8. WHEN NON PERFORATED PIPE IS USED, MATCH THE 'T'S HORIZONTAL OPENING DIAMETERS TO THE PIPE DIAMETER AND CONNECT WITH MANUFACTURER RECOMMENDED CONNECTION SLEEVE.

3/8" HOLE

· <del>-</del> - - - - - - - - - - - - - - - -

5/16" X 1 3/4" LAG BOLT TO BE INSERTED

SEE NOTE 2

PREFABRICATED — POLYETHYLENE SMOOTHWALL PIPE 'T' SECTION

CAST IRON GRATE

33mm DIA. X 7mm DEEP

FOR 3/8" X 1 1/4" BOLT

250mm

375mm

450mm

525mm

600mm

INDENT AND 17mm SEAT

PIPE DIAMETER (INSIDE)

- APPROVED HDPE PERFORATED

SMOOTH INNER WALL PIPE WITH FILTER SOCK

375mm

450mm

525mm

600mm

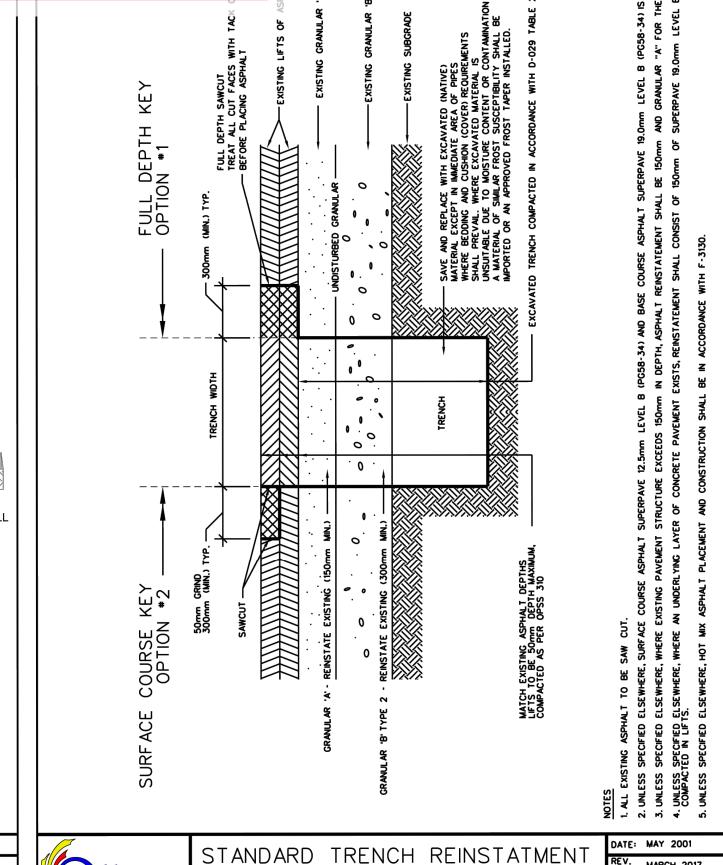
750mm

750mm

DATE: MARCH 2007 DATE: MARCH 2019

CONCRETE SIDEWALK CONCRETE, BUS SHELTER PAD - PROPERTY LINE 500 MIN. 150mm CONCRETE PAD TOPSOIL & SOD 10mm REBAR - BACKFILL 300mm x 300mm SPACING -25mm FROM EDGES 200mm COMPACTED -GRANULAR 'A' **SECTION A-A** 1. CONCRETE PADS TO BE IN ACCORDANCE WITH OPSS AND CITY OF OTTAWA STANDARDS. 2. ALL PADS TO BE SLOPED 2% MAX. TOWARDS THE ROAD UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR 3. THE SURFACE ELEVATION OF THE PAD MUST BE FLUSH TO THE SURFACE ELEVATION OF ADJACENT GRADE (SIDEWALK OR BOULEVARD). 4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN. 5. FINISH TO MATCH SIDEWALK. N.T.S. DATE: MARCH 2016 CONCRETE SHELTER PAD ADJACENT TO SIDEWALK WG. No.: SC11

ROADWAY



IN PAVED SURFACE

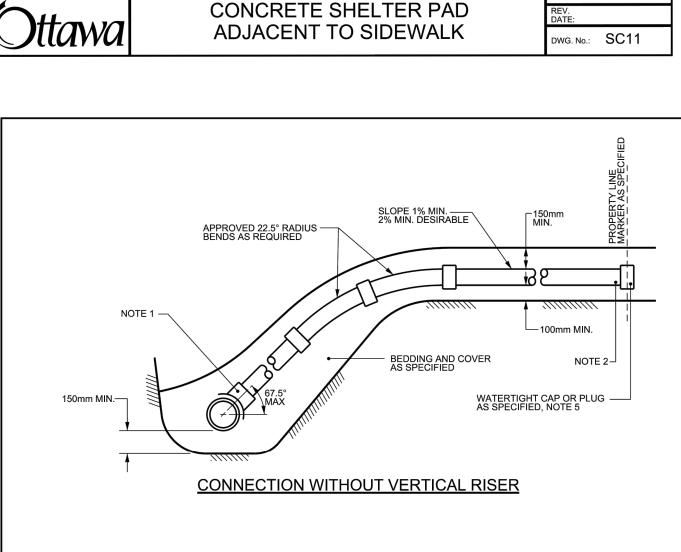
APPROVED

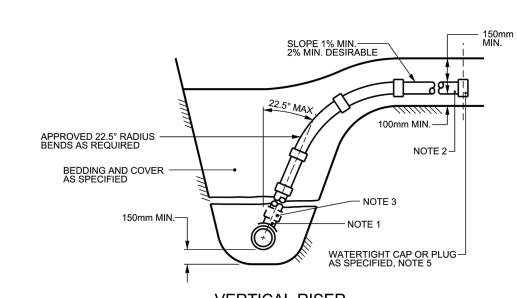
MANAGER, DEVELOPMENT REVIEW SOUTH

**PLANNING, INFRASTRUCTURE & ECONOMIC** 

**DEVELOPMENT DEPARTMENT, CITY OF OTTAWA** 

By Lily Xu at 4:14 pm, Jun 19, 2023





. ALL DIAMETERES OF SERVICE CONNECTIONS THAT HAVE NOMINAL DIAMETERS NO GREATER THAN 50% OF THE NOMINAL DIAMETER OF THE RIGID SEWER PIPE SHALL BE MADE USING A BELL END INSERT AS PER \$11.2 OR AN APPROVED RUBBER GASKETED INSERT, INSTALLED ABOVE THE SPRING LINE.

2. SANITARY SERVICES TO BE 135mm AND STORM SERVICES TO BE 100mm FOR NEW RESIDENCES UNLESS SPECIFIED OTHERWISE. SERVICE PIPE AND RADIUS BENDS TO BE APPROVED CSA B182.2, SDR28 PRODUCTS UNLESS SPECIFIED OTHERWISE.

5. CAP OR PLUG AT THE PROPERTY LINE SHALL BE ADEQUATELY BRACED TO WITHSTAND TESTING PRESSURE.

FOR RIGID MAIN SEWER PIPE (MODIFIED OPSD-1006.010)

MARCH 2006 MARCH 2014

**PROJECT** 

DYT3 OTTAWA, ONTARIO 2625 SHEFFIELD ROAD

### OWNER

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

www.aecom.com

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK, SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

REGISTRATION

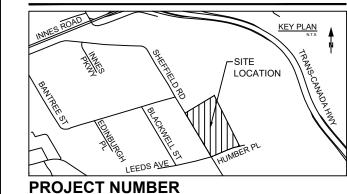
REV. MARCH 2017

DWG. No.: R10



### ISSUE/REVISION

as			
except	7	2023-03-22	REISSUED FOR SPA
	6	2023-03-06	ISSUED FOR BID
oartie	5	2023-02-07	REISSUED FOR SPA
hird p	4	2022-12-02	ISSUED FOR BID
ı by t	3	2022-11-23	ISSUED FOR BID
upor	2	2022-10-07	ISSUED FOR SPA
relied upon by third parties,	I/R	DATE	DESCRIPTION



60634622

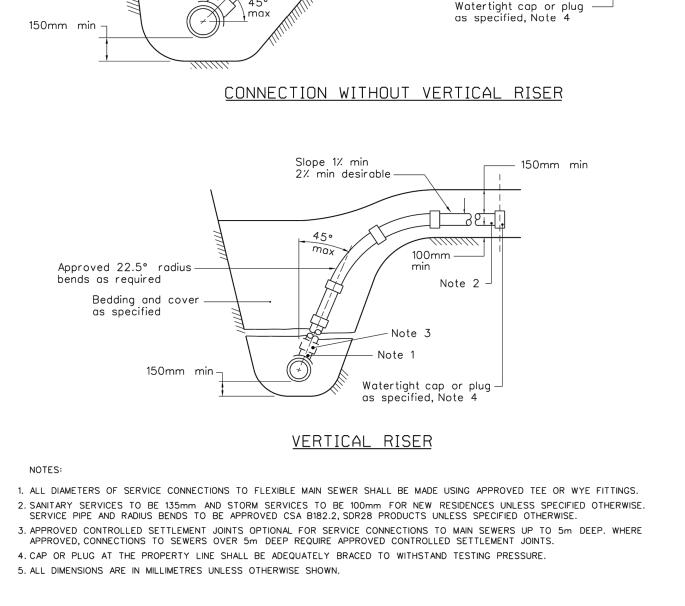
SHEET TITLE

MUNICIPAL DETAILS

SHEET NUMBER

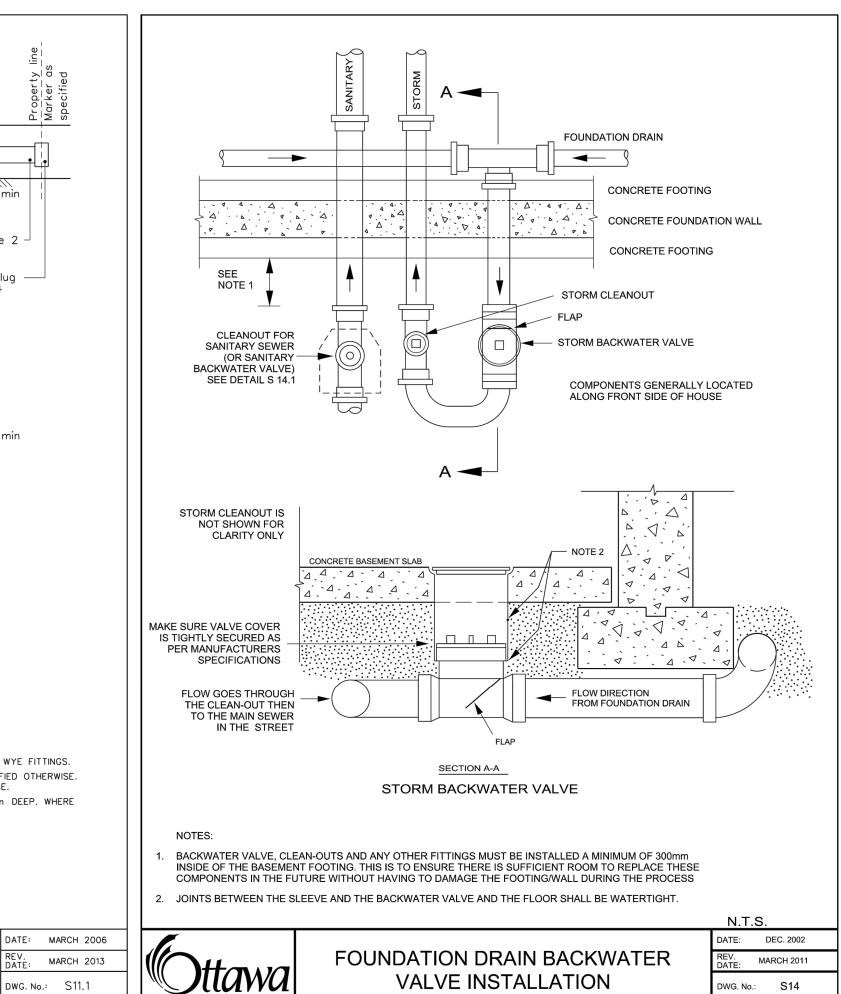
D102

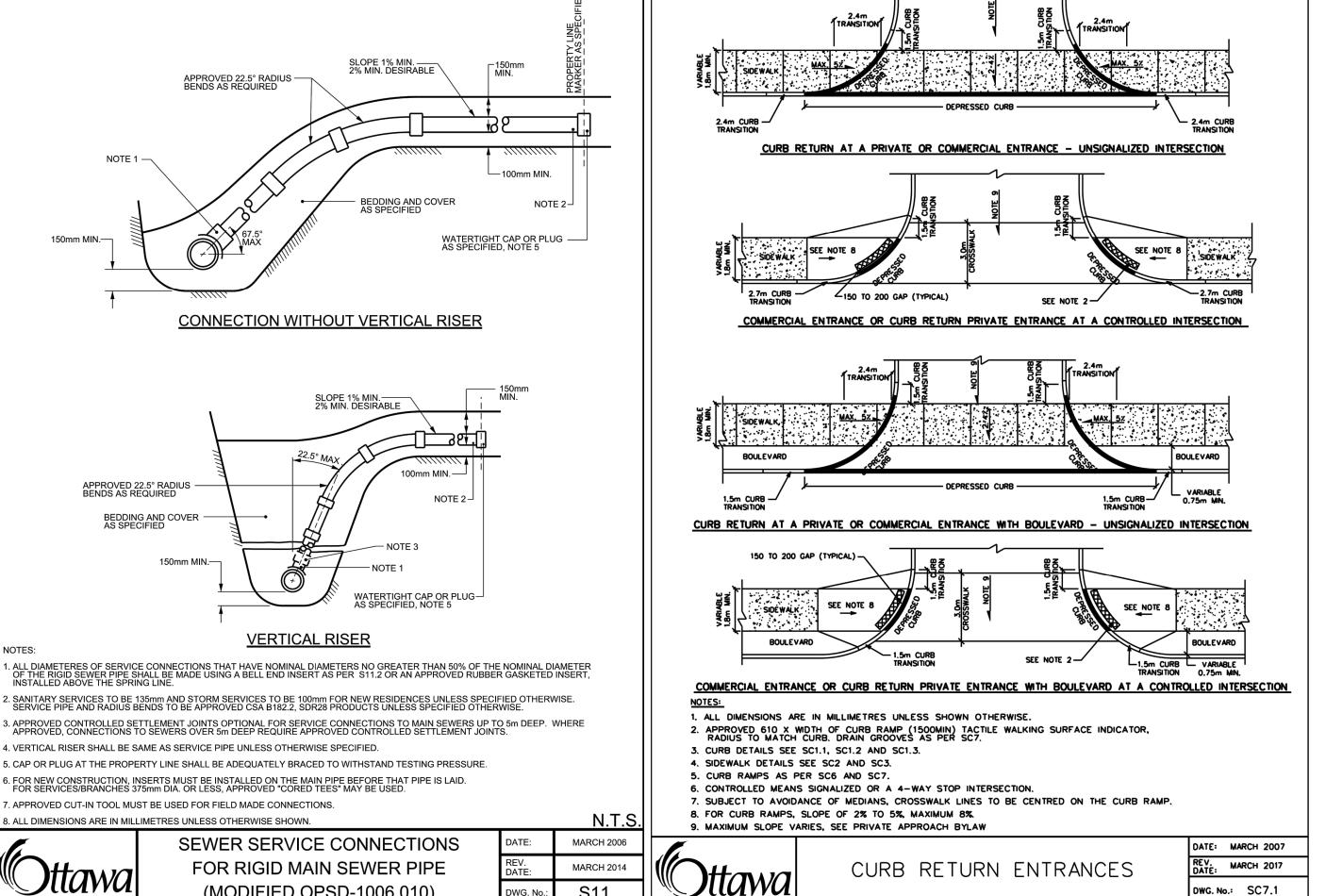
PLAN NO.: 18547



SEWER SERVICE CONNECTIONS

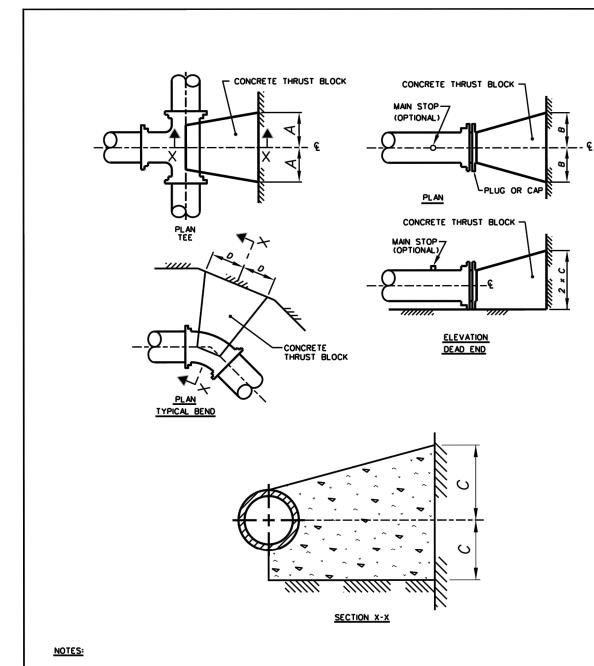
FOR FLEXIBLE MAIN SEWER PIPE

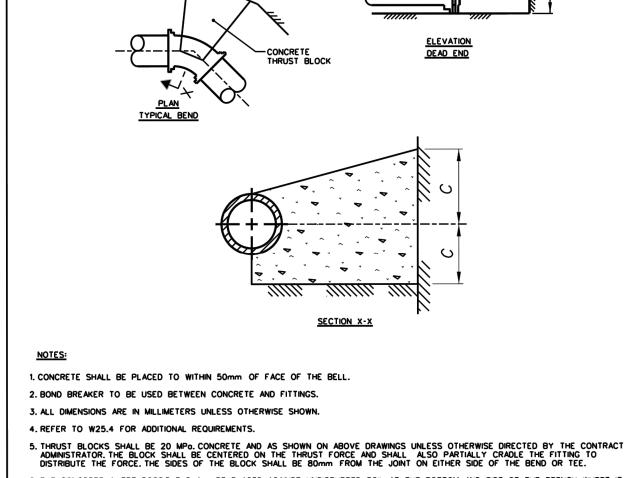




LILY XU, MCIP, RPP

MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, INFRASTRUCTURE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



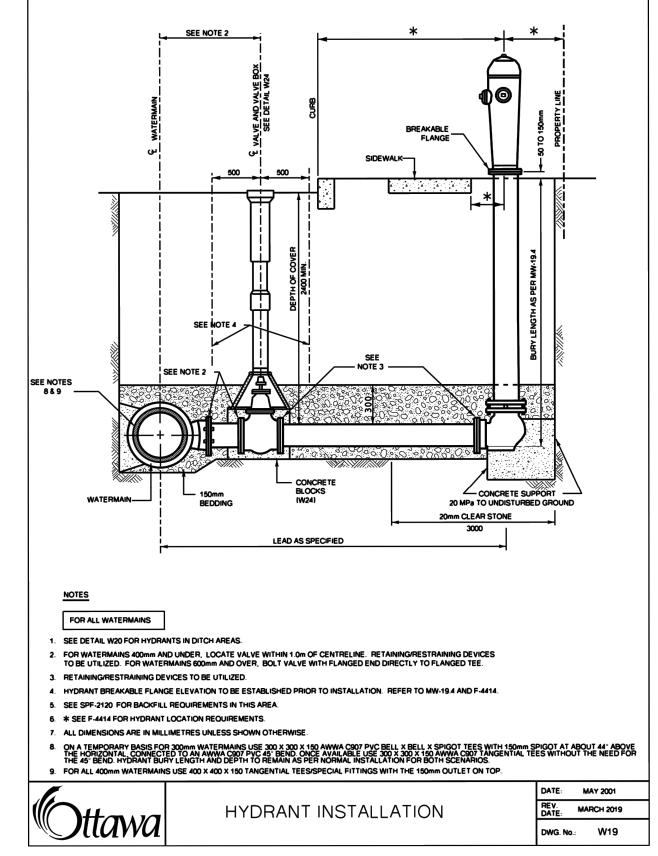


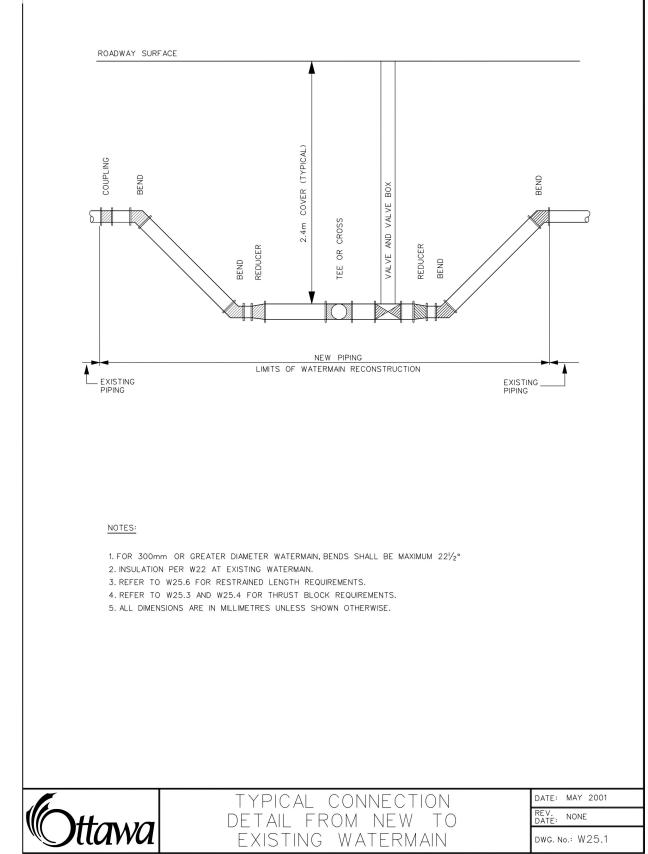
CONCRETE THRUST BLOCKS

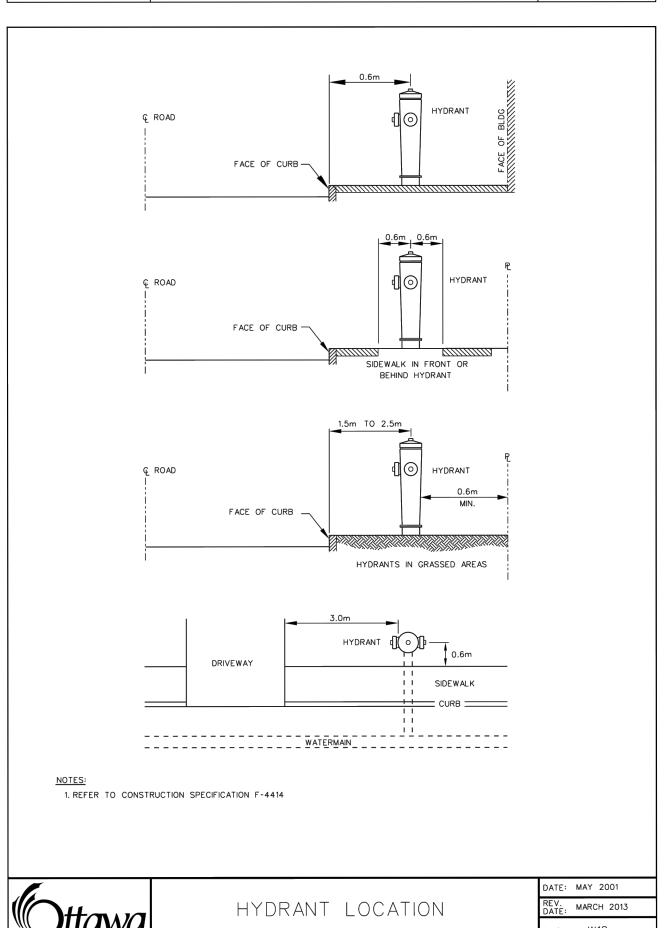
FOR PVC AND DI PIPE

DATE: MAY 2001

EV. MARCH 2016







GRANULAR BACKFILL

TI INSULATION

SECTION A - A

2. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23

THERMAL INSULATION FOR

WATERMAINS IN SHALLOW

TRENCHES

DATE: MAY 2001

DWG. No.: W22

. MARCH 2013

FOR 150 - 400mm (NOMINAL DIAMETER) WATERMAINS, WHERE THE DEPTH OF COVER IS LESS THAN 2400mm

1. INCREMENTS OF THICKNESS SHALL BE ADJUSTABLE TO 25mm.

4. STAGGER JOINTS OF MULTIPLE SHEETS.

3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN

5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

TI = (2400 - H) MINIMUM 50mm

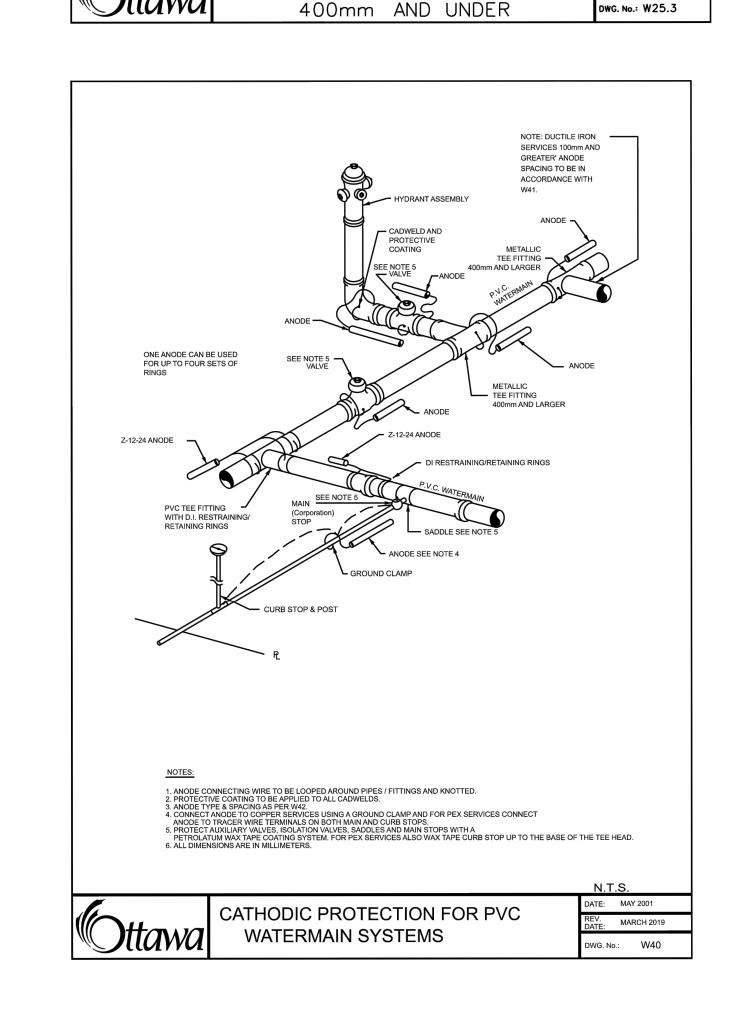
TI = THICKNESS OF INSULATION (mm)

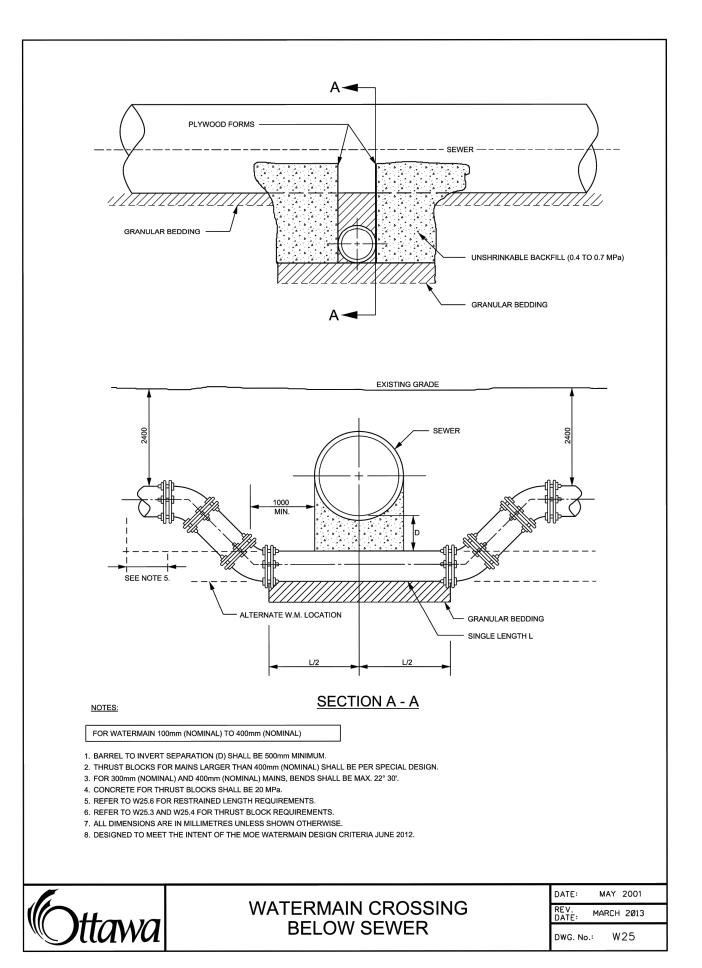
W = WIDTH OF INSULATION (mm) D = O.D. OF PIPE (mm)

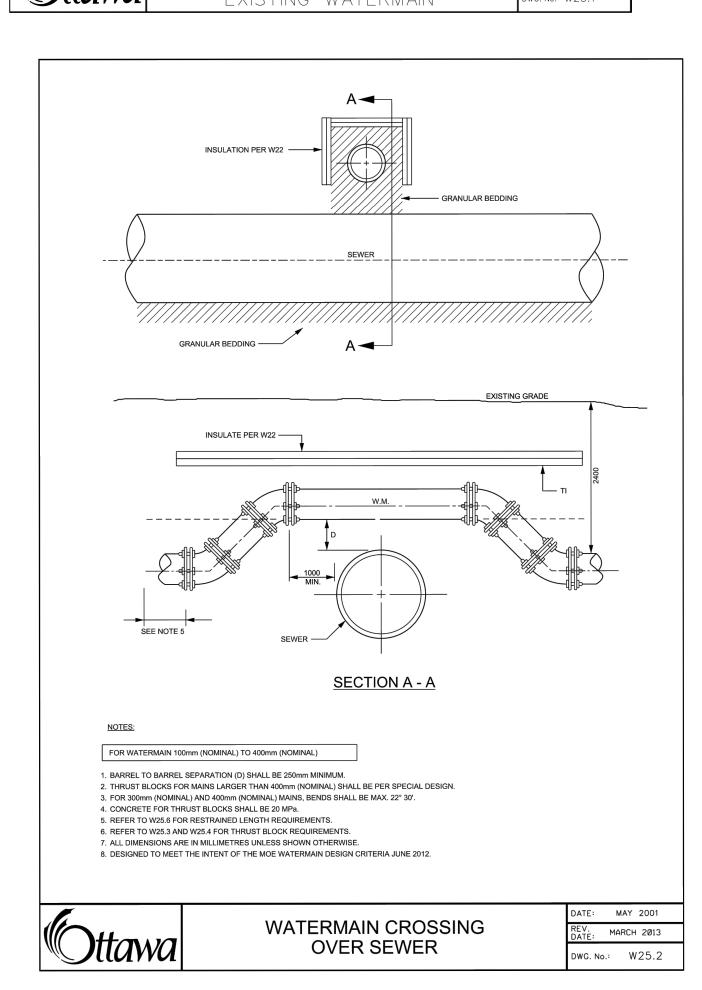
H = DEPTH OF COVER

**Ittawa** 

W = D + 300









**PROJECT** 

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

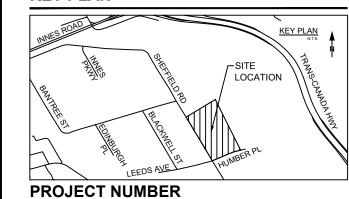
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### REGISTRATION



# ISSUE/REVISION

7	2023-03-22	REISSUED FOR SPA
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
2	2022-10-07	ISSUED FOR SPA
I/R	DATE	DESCRIPTION



60634622

SHEET TITLE

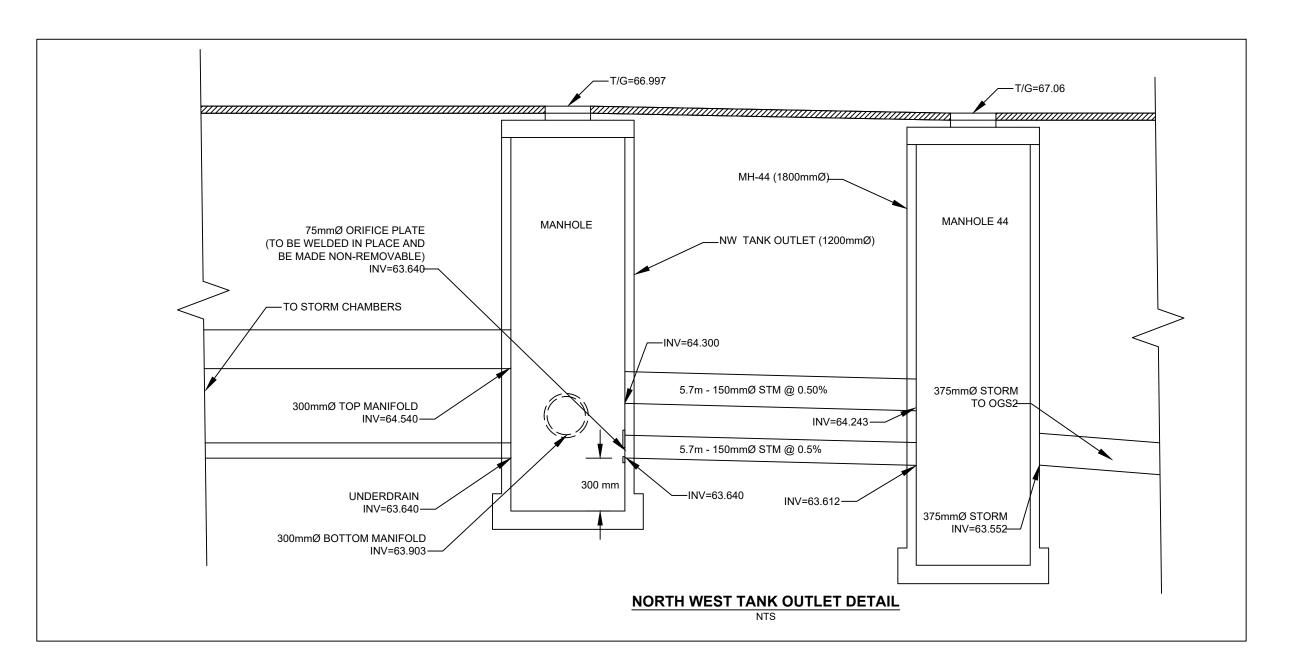
MUNICIPAL DETAILS

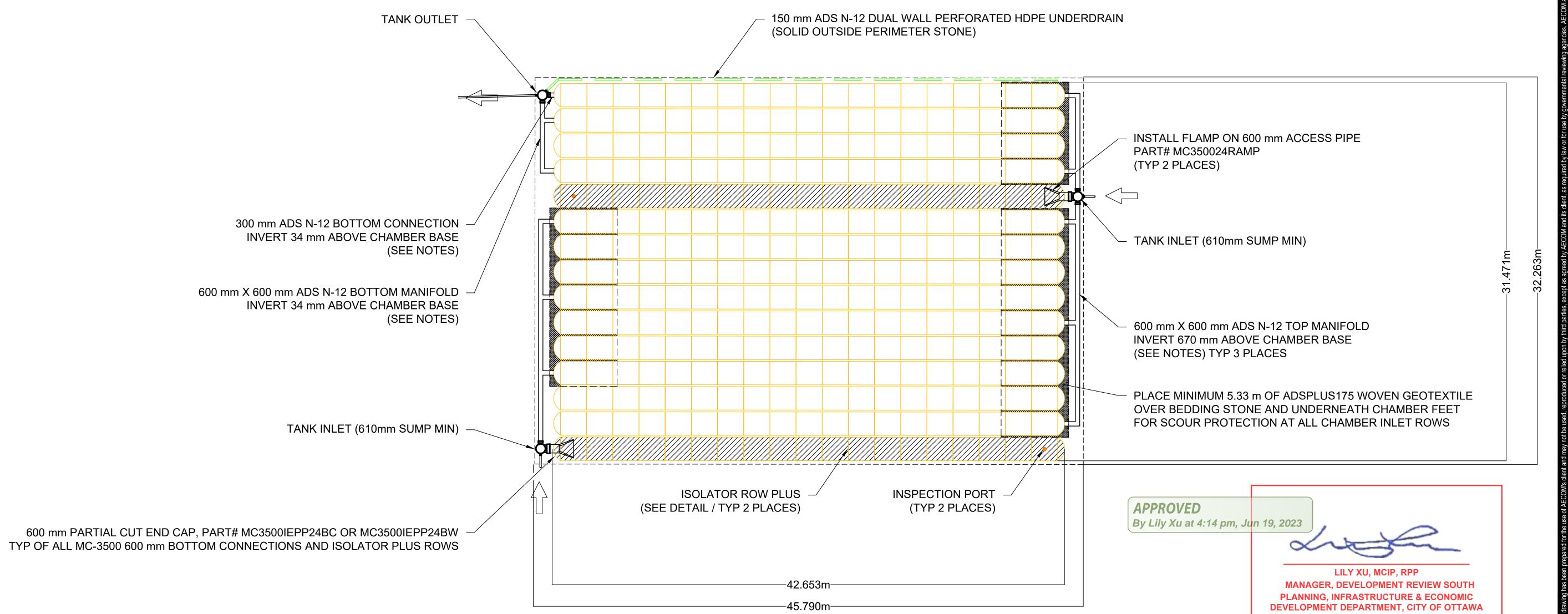
PROPOSI	ED LAYOUT - DYT3-N
285	STORMTECH MC-3500 CHAMBERS
30	STORMTECH MC-3500 END CAPS
305	STONE ABOVE (mm)
229	STONE BELOW (mm)
40	% STONE VOID
1,530.4	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED)
1,477.3	SYSTEM AREA (m²)
156.1	SYSTEM PERIMETER (m)
PROPOSI	ED ELEVATIONS - DYT3-N
65.317	TOP OF STONE:
65.012	TOP OF MC-3500 CHAMBER:
64.540	600 mm TOP MANIFOLD INVERT:
63.921	600 mm ISOLATOR ROW PLUS INVERT:
63.903	300 mm BOTTOM MANIFOLD/CONNECTION INVERT:
63.869	BOTTOM OF MC-3500 CHAMBER:
63.640	UNDERDRAIN INVERT:
63.640	BOTTOM OF STONE:

### **NOTES**

- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS. IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD
- STRUCTURES SHOWN ON THIS DESIGN ARE NOT INTENDED FOR MANWAY ACCESS. INSPECTION AND MAINTENANCE OF THE SYSTEM VIA THESE STRUCTURES IS RECOMMENDED TO BE COMPLETED WITH REMOTE CONTROLLED EQUIPMENT, OR ADHERE TO GUIDANCE BY PROFESSIONAL MAINTENANCE COMPANY.

# • NOT FOR CONSTRUCTION:





**PROJECT** 

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### **CONSULTANT**

www.aecom.com

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

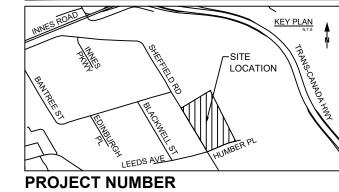
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### REGISTRATION



# **ISSUE/REVISION**

7	2023-03-22	REISSUED FOR SPA
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
2	2022-10-07	ISSUED FOR SPA
I/R	DATE	DESCRIPTION



60634622

SHEET TITLE STORMTECH CHAMBER DETAILS 1 OF 5

SHEET NUMBER

D104

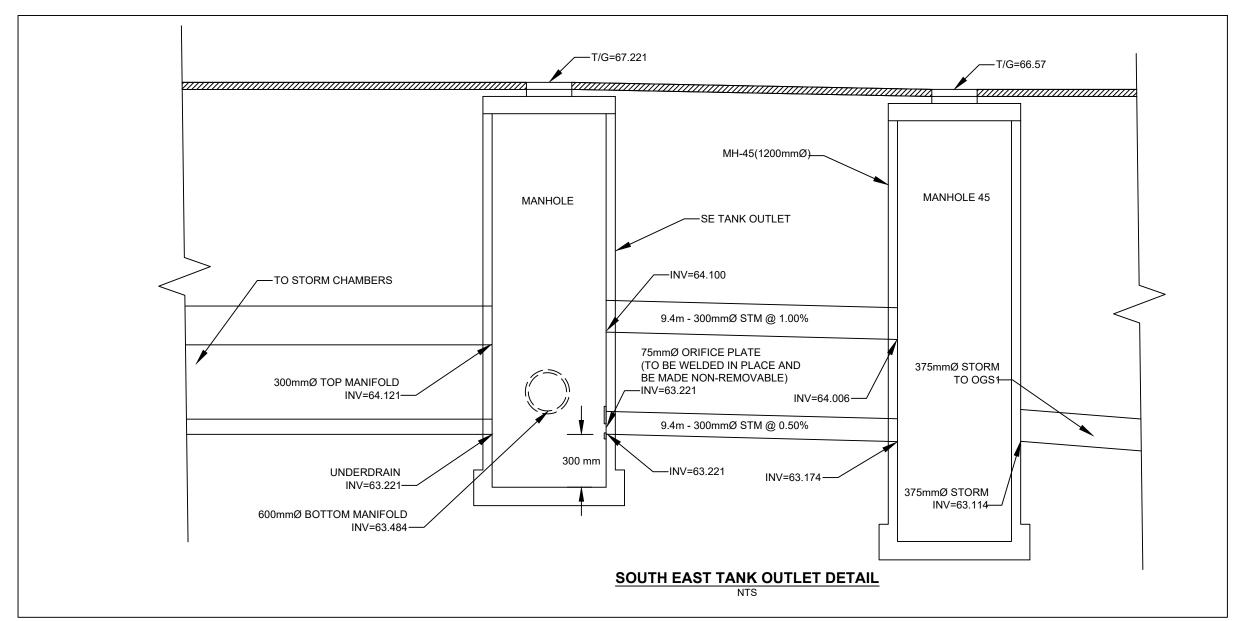
<b>PROPOSI</b>	ED LAYOUT - DYT3-S			
250	STORMTECH MC-3500 CHAMBERS			
30	STORMTECH MC-3500 END CAPS			
305	STONE ABOVE (mm)			
229	STONE BELOW (mm)			
40	% STONE VOID			
1,364.1	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED			
1,326.8	SYSTEM AREA (m²)			
165.6	SYSTEM PERIMETER (m)			
PROPOSED ELEVATIONS - DYT3-S				
04.000	TOD OF OTONIE			

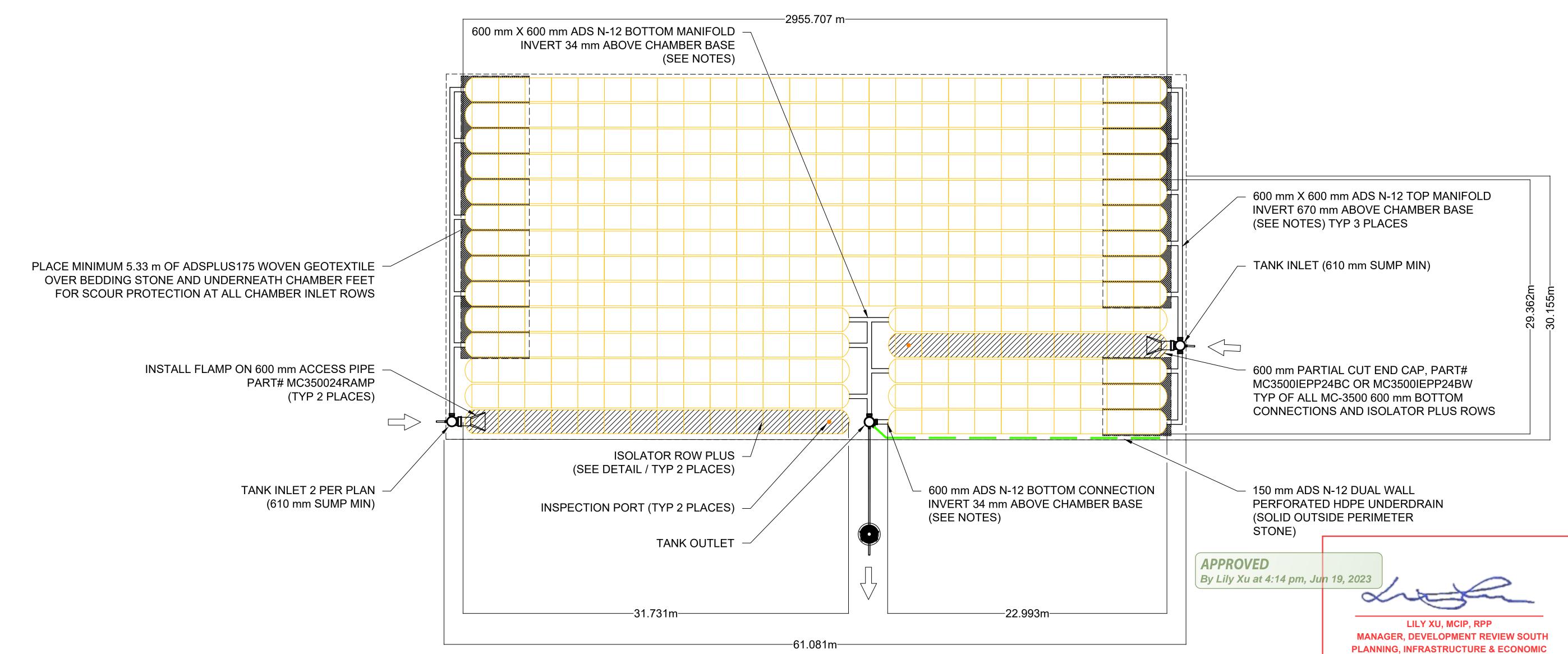
KUPU31	ED ELEVATIONS - DT 13-5
64.898	TOP OF STONE:
64.593	TOP OF MC-3500 CHAMBER:
64.121	600 mm TOP MANIFOLD INVERT:
63.502	600 mm ISOLATOR ROW PLUS INVERT:
63.484	300 mm BOTTOM MANIFOLD/CONNECTION INVERT:
63.450	BOTTOM OF MC-3500 CHAMBER:
63.221	UNDERDRAIN INVERT:
63.221	BOTTOM OF STONE:

### **NOTES**

- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- STRUCTURES SHOWN ON THIS DESIGN ARE NOT INTENDED FOR MANWAY ACCESS. INSPECTION AND MAINTENANCE OF THE SYSTEM VIA THESE STRUCTURES IS RECOMMENDED TO BE COMPLETED WITH REMOTE CONTROLLED EQUIPMENT, OR ADHERE TO GUIDANCE BY PROFESSIONAL MAINTENANCE COMPANY.

# • NOT FOR CONSTRUCTION:





**PROJECT** 

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

# **OWNER**

**CHOICE PROPERTIES REIT** 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### **CONSULTANT**

www.aecom.com

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

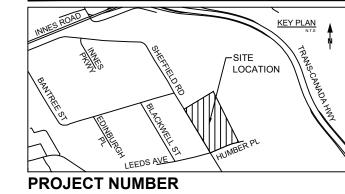
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### **REGISTRATION**



# **ISSUE/REVISION**

7	2023-03-22	REISSUED FOR SPA
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
2	2022-10-07	ISSUED FOR SPA
I/R	DATE	DESCRIPTION



60634622

STORMTECH CHAMBER DETAILS

SHEET NUMBER

D105

**DEVELOPMENT DEPARTMENT, CITY OF OTTAWA** 

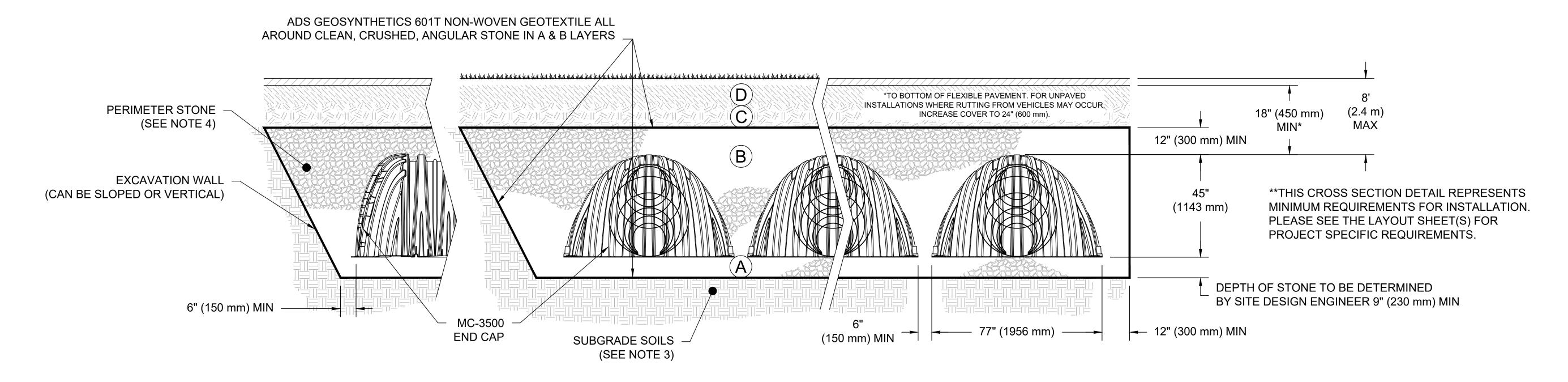
2 OF 5

# ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3  OR  AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
В	<b>EMBEDMENT STONE</b> : FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 4	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

### PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



# NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/% APPROVED AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

By Lily Xu at 4:15 pm, Jun 19, 2023

DYT3 OTTAWA, ONTARIO

2625 SHEFFIELD ROAD

### **OWNER**

**CHOICE PROPERTIES REIT** 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

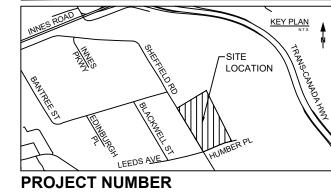
WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

### REGISTRATION



### **ISSUE/REVISION**

7	2023-03-22	REISSUED FOR SPA
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
2	2022-10-07	ISSUED FOR SPA
I/R	DATE	DESCRIPTION



### 60634622

STORMTECH CHAMBER DETAILS 3 OF 5

**SHEET NUMBER** 

D106

ISSUE/REVISION

REGISTRATION

**PROJECT** 

DYT3

**OWNER** 

647 533 5057 tel

**CONSULTANT** 

AECOM Canada Ltd.

www.aecom.com

Kitchener, Ontario, N2P 0A4

OTTAWA, ONTARIO

**CHOICE PROPERTIES REIT** 

700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5

50 Sportsworld Crossing Road, Suite 290

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF

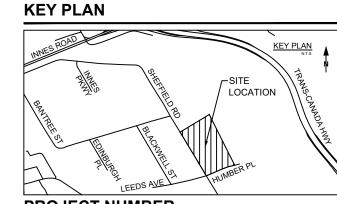
THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

519 650 5313 tel 519 650 3424 fax

2625 SHEFFIELD ROAD

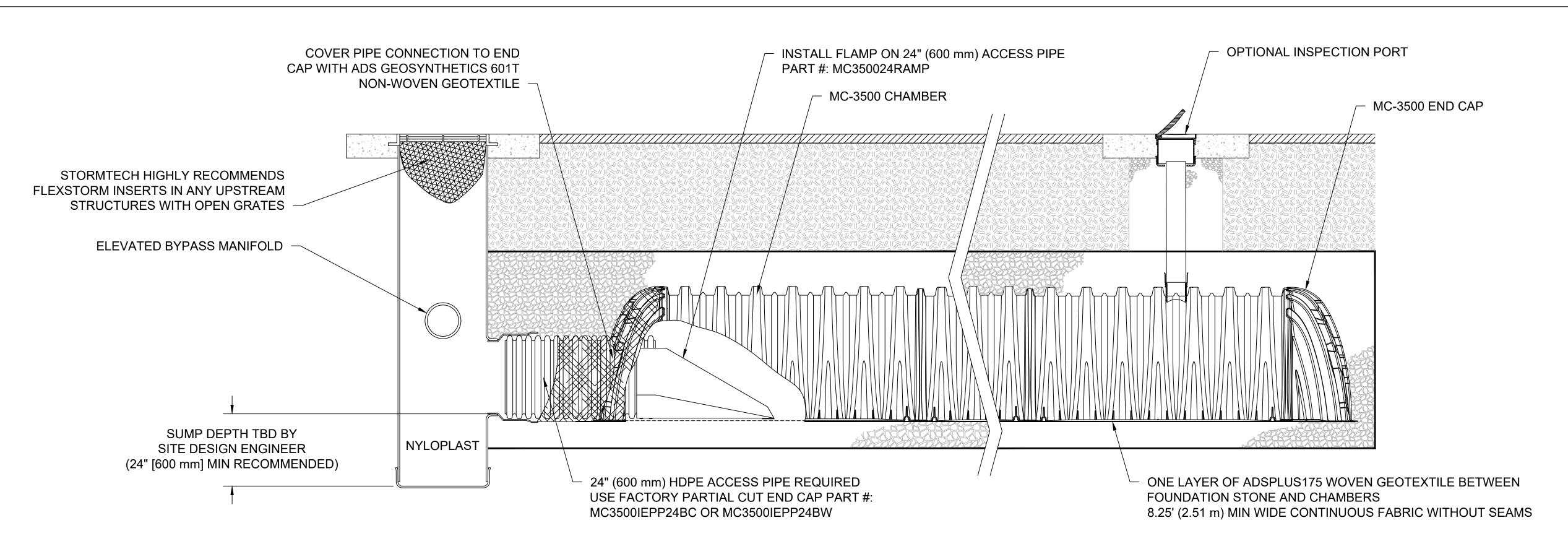
I/R DATE DESCRIPTION



**PROJECT NUMBER** 

60634622

STORMTECH CHAMBER DETAILS



# MC-3500 ISOLATOR ROW PLUS DETAIL

# **INSPECTION & MAINTENANCE**

INSPECT ISOLATOR ROW PLUS FOR SEDIMENT STEP 1)

A. INSPECTION PORTS (IF PRESENT)

REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR PLUS ROWS

REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE

i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

C. VACUUM STRUCTURE SUMP AS REQUIRED

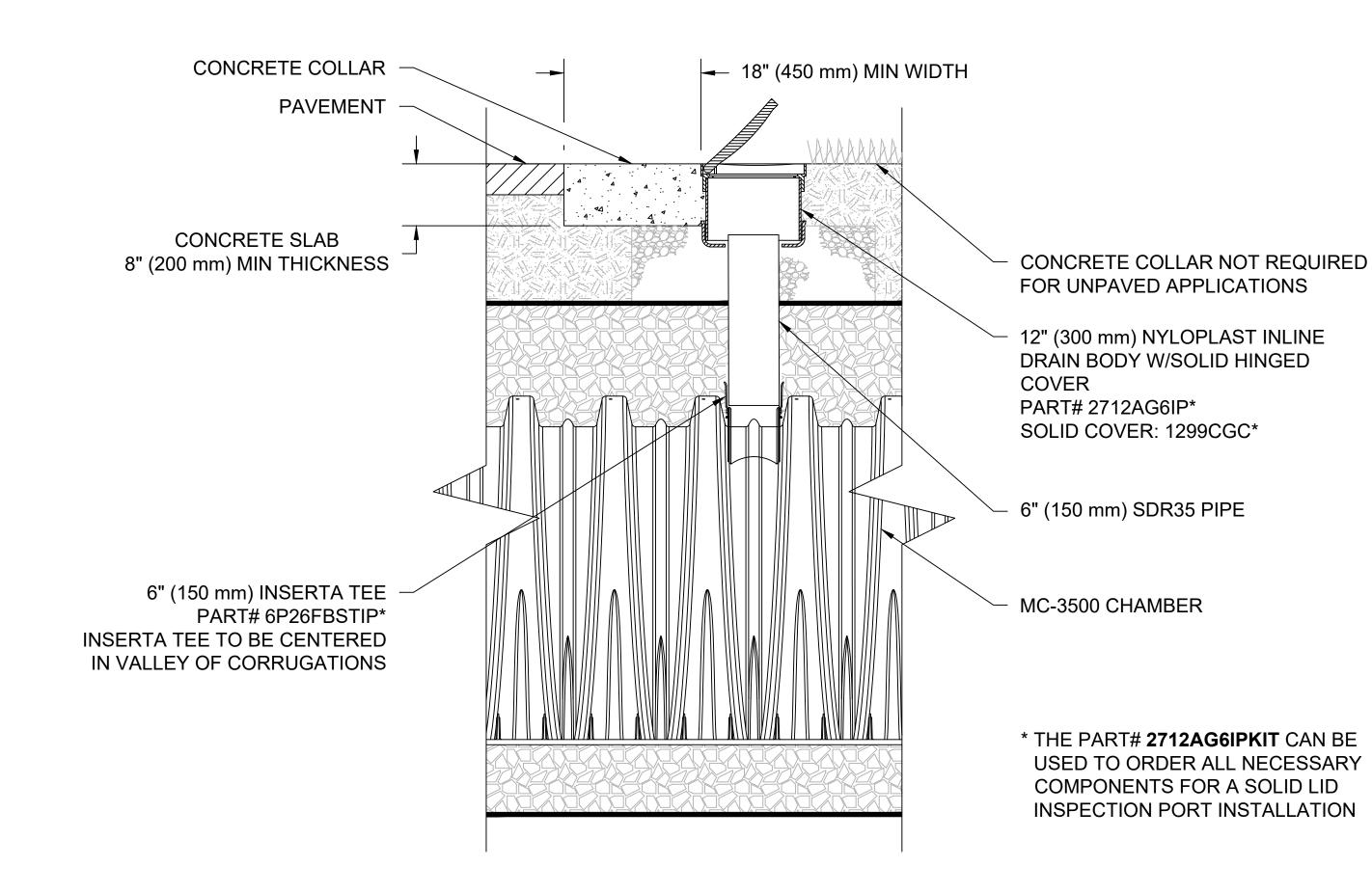
REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

# **NOTES**

INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

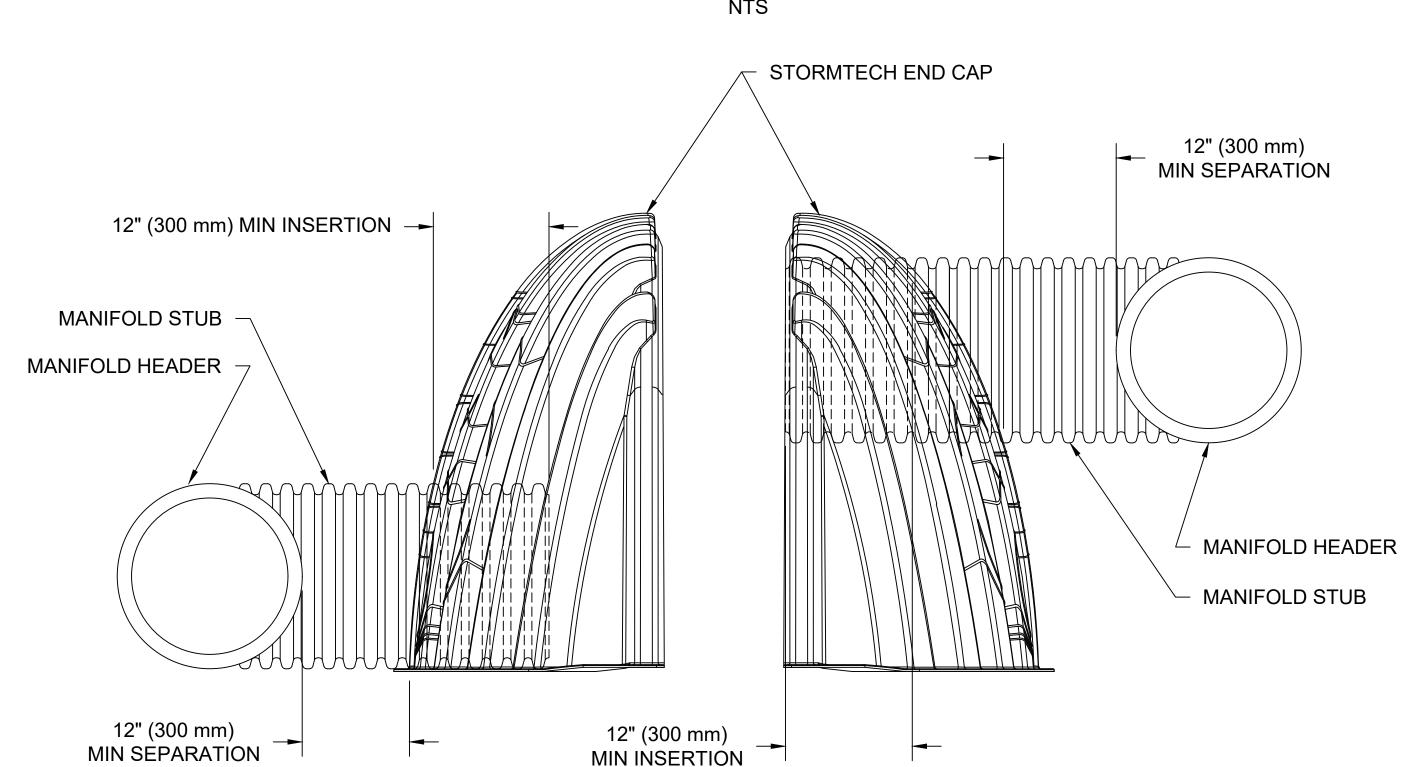


MC-3500 6" (150 mm) INSPECTION PORT DETAIL

NTS APPROVED By Lily Xu at 4:15 pm, Jun 19, 2023

### 4 OF 5 LILY XU, MCIP, RPP MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, INFRASTRUCTURE & ECONOMIC **SHEET NUMBER DEVELOPMENT DEPARTMENT. CITY OF OTTAWA** D107 PLAN NO.: 18547

# MC-SERIES END CAP INSERTION DETAIL



NOTE: MANIFOLD STUB MUST BE LAID HORIZONT FOR A PROPER FIT IN END CAP OPENING.



APPROVED

# MC-3500 TECHNICAL SPECIFICATION

75.0"

(1905 mm)

 $(3.11 \text{ m}^3)$  $(4.96 \text{ m}^3)$ 

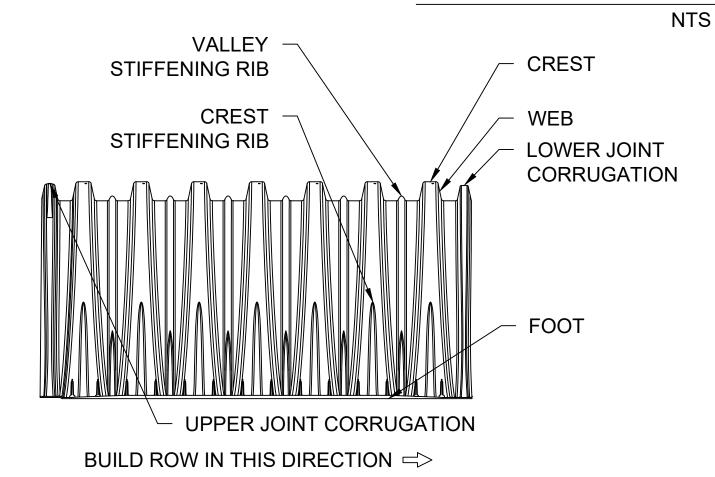
(60.8 kg)

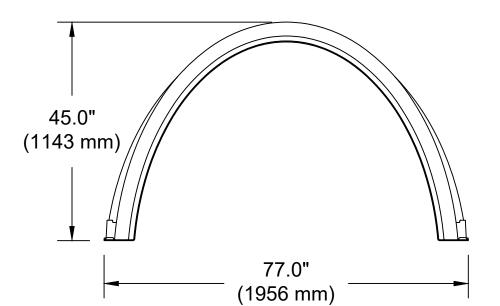
 $(0.42 \text{ m}^3)$ 

(1.28 m<sup>3</sup>)

(1956 mm X 1143 mm X 2184 mm)

(1905 mm X 1143 mm X 564 mm)





NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) 77.0" X 45.0" X 86.0" CHAMBER STORAGE 109.9 CUBIC FEET MINIMUM INSTALLED STORAGE\* 175.0 CUBIC FEET WEIGHT 134 lbs.

**NOMINAL END CAP SPECIFICATIONS** SIZE (W X H X INSTALLED LENGTH) **END CAP STORAGE** MINIMUM INSTALLED STORAGE\*

NOTE: ALL DIMENSIONS ARE NOMINAL

(22.2 kg) WEIGHT 49 lbs. \*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

(1143 mm

75.0" X 45.0" X 22.2"

14.9 CUBIC FEET 45.1 CUBIC FEET

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W" END CAPS WITH A WELDED CROWN PLATE END WITH "C"

PART#	STUB	В	С
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	
MC3500IEPP06B	- 6" (150 mm)		0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	
MC3500IEPP08B	6 (200 111111)		0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	
MC3500IEPP10B	10 (230 11111)		0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	
MC3500IEPP12B	- 12 (300 11111)		1.35" (34 mm)
MC3500IEPP15T	15" (275 mm)	23.39" (594 mm)	
MC3500IEPP15B	- 15" (375 mm)		1.50" (38 mm)
MC3500IEPP18TC		20.03" (509 mm)	
MC3500IEPP18TW	19" (450 mm)	20.03 (309 11111)	
MC3500IEPP18BC	- 18" (450 mm)		1 77" (45 mm)
MC3500IEPP18BW			1.77" (45 mm)
MC3500IEPP24TC		14.49" (269 mm)	
MC3500IEPP24TW	74" (600 mm)	14.48" (368 mm)	
MC3500IEPP24BC	- 24" (600 mm)		2.06" (52 mm)
MC3500IEPP24BW			2.06" (52 mm)
MC3500IEPP30BC	30" (750 mm)		2.75" (70 mm)

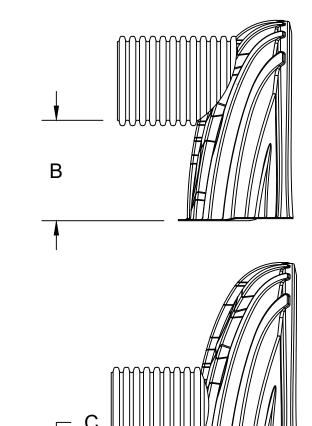
86.0" (2184 mm) INSTALLED

> **ACTUAL LENGTH** 22.2"

90.0" (2286 mm)

(564 mm) -**INSTALLED** 

25.7" (653 mm)



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

# **AECOM**

**PROJECT** 

DYT3 OTTAWA, ONTARIO 2625 SHEFFIELD ROAD

### OWNER

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK, SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

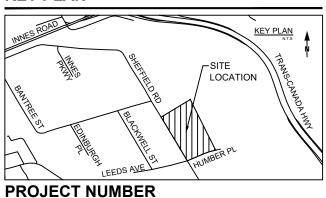
### REGISTRATION



# **ISSUE/REVISION**

7	2023-03-22	REISSUED FOR SPA
6	2023-03-06	ISSUED FOR BID
5	2023-02-07	REISSUED FOR SPA
4	2022-12-02	ISSUED FOR BID
3	2022-11-23	ISSUED FOR BID
2	2022-10-07	ISSUED FOR SPA
I/R	DATE	DESCRIPTION

### **KEY PLAN**



# 60634622

SHEET TITLE STORMTECH CHAMBER DETAILS 5 OF 5

**SHEET NUMBER** 

D108

### **GENERAL NOTES**

- 1. ALL DIMENSIONS ARE SHOWN IN METERS UNLESS NOTED OTHERWISE.
- 2. TOPOGRAPHIC SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO
- 3. CIVIL AND GEOTECHNICAL TESTING AND INSPECTION AGENCY: CONTRACTOR SHALL HIRE A PROFESSIONAL CIVIL AND GEOTECHNICAL ENGINEER LICENSED IN THE PLACE OF WORK TO PROVIDE TESTING AND INSPECTION SERVICES IN ACCORDANCE WITH CIVIL SPECIFICATIONS IN DIVISION 31, 21 AND 33. TESTING AND INSPECTION AGENCY SHALL PROVIDE ALL SITE RELATED ENGINEERING SERVICES AS FOLLOWS FOR CIVIL AND GEOTECHNICAL SCOPE OF WORK: -REVIEW OF MATERIAL DATA, MIX DESIGNS, AND SHOP DRAWINGS IN ACCORDANCE WITH CONSULTANTS DRAWINGS AND
- -PROVIDE TESTING AND INSPECTION REPORTS DURING CONSTRUCTION INCLUDING PHOTOGRAPHS. -PROVIDE DEFICIENCY LISTS AND REPORTS ON CORRECTIVE ACTIONS TAKEN WITH PHOTOS FOR CONSULTANT'S FINAL
- 4. ALL DIMENSIONS AND INFORMATION SHALL BE CHECKED AND VERIFIED ON SITE AND ANY DISCREPANCIES MUST BE REPORTED TO THE CONSULTANT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL BENCH-MARKS, ELEVATIONS, DIMENSIONS AND GRADES MUST BE CHECKED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED TO THE CONSULTANT. AT LEAST TWO DIFFERENT BENCHMARKS MUST BE REFERRED TO AT ALL TIMES
- 5. ALL REFERENCES TO 'MUNICIPALITY' HEREIN REFER TO THE CITY OF OTTAWA. ALL REFERENCES TO 'REGION' HEREIN REFER TO
- 6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE TESTING AGENCY, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT
- 7. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING SURVEY MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED ONTARIO LAND SURVEYOR.
- 8. BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS, PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT
- 9. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY AND/OR REGION STANDARDS, APPLICABLE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS & STANDARD DRAWINGS, AND ONTARIO BUILDING CODE.
- 10. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, PROVINCIAL, AND LOCAL CODES, ORDINANCES AND REGULATIONS ALL PERMITS LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- 11. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO ADJACENT FACILITIES AT ALL TIMES DURING CONSTRUCTION.
- 12. THE CONSULTANT OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ONTARIO'S OH&S ACT AND REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH TESTING AGENCY.
- 14. CONTRACTOR SHALL NOTIFY THE OWNER, THE CONSULTANT, THE TESTING AGENCY AND ALL APPLICABLE LOCAL AGENCIES / INSPECTORS 120 HOURS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. A PRE-CONSTRUCTION MEETING
- SHALL BE HELD WITH THE OWNER, THE CONSULTANT, THE TESTING AGENCY, THE CONTRACTOR AND THE LOCAL MUNICIPALITY. 15. THIS DRAWING IS NOT FOR CONSTRUCTION UNTIL STAMPED BY THE CONSULTANT & APPROVED BY MUNICIPALITY AND/OR
- 16. ALL DRAWINGS REMAIN THE PROPERTY OF THE CONSULTANT AND MAY NOT BE REPRODUCED OR REVISED WITHOUT THE CONSULTANTS WRITTEN PERMISSION.
- 17. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WITHIN THE ROAD ALLOWANCE, THE CONTRACTOR SHALL OBTAIN A WORK PERMIT FROM THE MUNICIPALITY AND/OR REGION WITH THE REQUIRED SECURITIES.
- 18. MAINTAIN ALL TRAFFIC & PEDESTRIAN TRAVEL IN AND AROUND THE WORK AREA AT ALL TIMES FOR THE DURATION OF
- CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO TESTING AGENCY FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION. 19. CONTRACTOR SHALL PROVIDE A CONSTRUCTION MANAGEMENT PLAN TO TESTING AGENCY FOR REVIEW AND APPROVAL PRIOR
- TO COMMENCING CONSTRUCTION. 20. ALL WORK INVOLVED IN THE CONSTRUCTION, RELOCATION, REPAIR OF MUNICIPAL SERVICES FOR THE PROJECT SHALL BE TO
- THE SATISFACTION OF THE DIRECTOR OF PLANNING AND CHIEF PLANNER, PLANNING AND ECONOMIC DEVELOPMENT
- 21. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
- BUILDING PERMIT
- APPROACH APPROVAL PERMITS
- COMMITTEE OF ADJUSTMENT
- SEWER AND WATER PERMITS RELOCATION OF SERVICES
- ENCROACHMENT AGREEMENTS (IF REQUIRED)
- 20. TREE PRESERVATION FENCING TO BE INSTALL AND INSPECTED PRIOR TO REMOVAL AND SITE WORK. REFER TO LANDSCAPE
- 21. FOR CIVIL WORK, THE SANITARY SERVICE WILL TERMINATE 1.5m FROM THE FOUNDATION WALL. IF THE CIVIL WORK IS CONSTRUCTED AFTER THE SANITARY SERVICE CONNECTION IS COMPLETED FROM THE BUILDING TO 1.5m FROM THE BUILDING (BY THE MECHANICAL CONTRACTOR), THE CIVIL CONTRACTOR WILL COMPLETE THE CONNECTION TO THE EXISTING SERVICE PIPE. OTHERWISE, THE SANITARY SERVICE WILL BE CAPPED AND THE FINAL CONNECTION WILL BE COMPLETED BY THE MECHANICAL CONTRACTOR
- 22. FOR CIVIL WORK, THE STORM SERVICE WILL TERMINATE 1.5m FROM THE FOUNDATION WALL. IF THE CIVIL WORK IS CONSTRUCTED AFTER THE STORM SERVICE CONNECTION IS COMPLETED FROM THE BUILDING TO 1.5m FROM THE BUILDING (BY THE MECHANICAL CONTRACTOR), THE CIVIL CONTRACTOR WILL COMPLETE THE CONNECTION TO THE EXISTING SERVICE PIPE. OTHERWISE, THE STORM SERVICE WILL BE CAPPED AND THE FINAL CONNECTION WILL BE COMPLETED BY THE MECHANICAL
- 23. FOR CIVIL WORK, THE WATER SERVICE (FIRE AND DOMESTIC) WILL TERMINATE 1.5m FROM THE FOUNDATION WALL. IF THE CIVIL WORK IS CONSTRUCTED AFTER THE WATER SERVICE CONNECTION IS COMPLETED FROM THE BUILDING TO 1.5m FROM THE BUILDING (BY THE MECHANICAL CONTRACTOR), THE CIVIL CONTRACTOR WILL COMPLETE THE CONNECTION TO THE EXISTING SERVICE PIPE. OTHERWISE, THE WATER SERVICE WILL BE CAPPED AND THE FINAL CONNECTION WILL BE COMPLETED BY THE MECHANICAL CONTRACTOR. THE CIVIL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF THE WATERMAIN THAT THEY HAVE INSTALLED.
- 24. BACKWATER VALVES STANDARDS TO BE AS PER CITY OF OTTAWA \$14, \$14.1, \$14.2.
- 25. WATERMAIN CROSSING STANDARD TO BE AS PER CITY OF OTTAWA W25 AND W25.2.
- 26. ALL SANITARY, WATER, STORM AND ROAD WORKS TO BE AS PER LATEST CITY OF OTTAWA STANDARDS SUCH AS CITY STANDARD SUCH AS SC7.1, R10. SC 1.1. S11. S11.1, S14, S14.1, W22, W25.1.

### **EROSION AND SEDIMENT CONTROL (ESC) NOTES**

- 1. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES.
- 2. CONTRACTOR TO HOLD A PRE-CONSTRUCTION MEETING INCLUDING ALL RELEVANT PROJECT CONSTRUCTION PERSONNEL INCLUDING THE TESTING AGENCY, TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- 3. ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH LOCAL AND PROVINCIAL REQUIREMENTS.
- 4. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH LOCAL AND PROVINCIAL REQUIREMENTS.
- 5. RETAIN A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN (ESCP) AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO THE PROVINCIAL OR LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE CONTRACTOR AND/OR PERMIT REGISTRANT (IF PERMIT IS REQUIRED), BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE.
- 6. ALL CONTRACTORS AND/OR PERMIT REGISTRANTS (IF PERMIT IS REQUIRED) MUST IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLANS. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE EROSION AND SEDIMENT CONTROL PLANS IS A VIOLATION OF THE PERMIT.
- 7. THE EROSION AND SEDIMENT CONTROL PLANS MUST BE ACCURATE AND REFLECT SITE CONDITIONS.
- THE EROSION AND SEDIMENT CONTROL PLANS MAY BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- 9. ALTERNATIVE EROSION CONTROL MEASURES MUST BE REVIEWED AND APPROVED BY THE TESTING AGENCY AND THE MUNICIPALITY BEFORE IMPLEMENTATION.
- 10. ALL BASE ESC MEASURES, INCLUDING CATCH BASIN PROTECTION AS PER DETAIL ON SHEET D100, MUST BE IN PLACE. FUNCTIONAL, AND APPROVED IN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES
- 11. INLET PROTECTION SHALL BE RE-INSTALLED IMMEDIATELY FOLLOWING PAVING ACTIVITIES OR ADJUSTMENT OF FRAME AND
- 12. EROSION & SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED IN ACCORDANCE WITH APPLICABLE CONSERVATION AUTHORITY, AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS AND SPECIFICATIONS.
- 13. SITES MAY REQUIRE DIVERSION SWALES AND TEMPORARY SEDIMENTATION BASINS UNLESS IT IS SHOWN THAT THE EROSION INDEX FACTOR IS LOW ENOUGH THAT SUCH A FACILITY IS NOT WARRANTED.
- 14 SILT FENCING AS PER DETAIL ON DRAWING D100 TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY AREA GRADING OR EXCAVATING WORKS. EROSION CONTROL FENCING TO BE PLACED AROUND THE BASE OF ALL STOCKPILES. ALL STOCKPILES MUST BE KEPT A MINIMUM DISTANCE OF 2.5m FROM ALL PROPERTY LINES AND 15m AWAY FROM ALL WATER COURSES.
- 15. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY BY TESTING AND INSPECTION AGENCY AND ANY DAMAGE

- REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF ONE THIRD (1/3) THE HEIGHT OF THE SILT FENCE.
- 16. MUD MATS TO BE PROVIDED ON SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MATS SHALL BE AS PER DETAIL ON DRAWING D100 (OR APPROVED EQUIVALENT). CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE ITS EFFECTIVENESS AT ALL TIMES.
- 17. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY
- 18. MAINTAIN AND DELINEATE ALL EXISTING NATURAL BUFFERS WITHIN 15m OF ANY WATERCOURSE.
- 19. CONSTRUCTION ENTRANCES SHALL BE ADJUSTED AS NECESSARY DURING CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO. STREET SWEEPING. AND VACUUMING, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 20. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING APPROPRIATE METHODS SUCH AS: CONSTRUCTION ENTRANCES, MUD MATS, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, TEMPORARY GRAVEL ROADS LOCATED WITHIN THE SITE. OR EXIT TIRE WASH STATIONS. THESE PROCEDURES MUST BE IN PLACE PRIOR TO LAND DISTURBING ACTIVITIES.
- 21. THE CONTRACTOR IS RESPONSIBLE FOR THE MUNICIPAL AND/OR REGION OWNED ROADWAYS TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AT THE END OF EACH WORK DAY.
- 22. ANY MUD / MATERIAL TRACKED ONTO ROADWAYS SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE EQUIPMENT.
- 23. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE.
- 24. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK.
- 25. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. 26. CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE CONTROL AND DISPOSAL METHODS OF PROHIBITED MATERIALS. AS PER
- 27. PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING. MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL HYDRAULIC FLUID AND OTHER OILS FROM VEHICLES AND MACHINERY AS WELL AS DEBRIS FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION

MUNICIPAL REQUIREMENTS. CONTROL PROHIBITED DISCHARGES SUCH AS CONCRETE WASH-OUT AND WASTEWATER FROM

CLEANOUT OF STUCCO, PAINT, AND CURING COMPOUNDS FROM LEAVING THE CONSTRUCTION SITE AT ALL TIMES AS PER THE

- 28. IMPLEMENT THE FOLLOWING PROCEDURES WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES. SPILL KITS IN ALL VEHICLES. REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE COVERED STORAGE AREAS FOR WASTE AND SUPPLIES.
- 29. FUEL STORAGE AND FUELING ON SITE ARE NOT ALLOWED.

BY FIFTY PERCENT AND AT COMPLETION OF PROJECT.

- 30. DURING CONSTRUCTION MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE. PROTECT ALL
- 31. CONTRACTOR TO PRESERVE VEGETATION ON STEEP SLOPES UNTIL IT BECOMES NECESSARY TO DISTURB FOR CONSTRUCTION.
- 32. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND DURING WET WEATHER.
- 33. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREAS WILL NOT BE REHABILITATED WITHIN 30
- 34. USE WATER, SOIL-BINDING AGENTS, OR OTHER DUST CONTROL TECHNIQUES AS REQUIRED TO CONTROL WIND-BLOWN DUST
- AND SOIL TO ACCEPTABLE LEVELS 35. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE
- FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. REFER TO LANDSCAPING SPECIFICATIONS IF APPLICABLE. 36. INSPECT CATCH BASIN TREATMENT AND CATCH BASIN SUMPS WEEKLY AND AFTER EVERY STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY. CLEAN CATCH BASINS BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT
- COMPLETION OF PROJECT 37. REMOVE TRAPPED SEDIMENTS FROM SEDIMENT BASINS AND SEDIMENT TRAPS BEFORE DESIGN CAPACITY HAS BEEN REDUCED
- 38. SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE MUST BE REMEDIATED WITHIN 24 HOURS. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT ADDITIONAL CONTROLS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE PROVINCIAL AND LOCAL AUTHORITIES TIMEFRAME.
- 39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS BY THE CONTRACTOR AT HIS OWN
- 40. CONTRACTOR TO TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIALS, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS THAT HAVE BEEN AFFECTED.
- 41. ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED WITH PAVEMENT OR GROUND COVER AND VEGETATION HAS BEEN ESTABLISHED.
- 42. AT THE COMPLETION OF CONSTRUCTION, AND ONCE ALL DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED, REMOVE FILTER CLOTHS AND CATCHBASIN TREATMENT ON CATCH BASINS AND MANHOLE COVERS. INSPECT AND CLEAN CATCH

### CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS.
- 2. ALL MATERIALS SHALL BE NEW. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS. PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM TESTING AGENCY PRIOR TO INSTALLATION.
- 3. ALL BEDDING, COVER MATERIAL AND EMBEDMENT MATERIAL TO BE COMPACTED GRANULAR 'A' UNLESS NOTED OTHERWISE.
- EARTH FILL MATERIALS TO BE COMPACTED TO AT LEAST 98% STANDARD PROCTOR DENSITY (SPD), UNLESS OTHERWISE INDICATED IN THE LATEST GEOTECHNICAL REPORT. GRANULAR MATERIALS TO BE COMPACTED TO 100% SPD, UNLESS OTHERWISE INDICATED IN THE LATEST GEOTECHNICAL REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH
- 5. ALL BEDDING, GRANULAR BASE AND THRUST BLOCKING TO BE FOUNDED ON APPROVED SUBGRADE BY GEOTECHNICAL
- 6. PLACEMENT OF GRANULAR MATERIALS 'A' AND 'B' ARE TO BE IN COMPLIANCE WITH OPSS MUNI 102, OPSS MUNI 314 AND OPSS MUNI 501. PLACEMENT OF RIP RAP TO BE IN COMPLIANCE WITH OPSS 511. PLACEMENT OF HL8, HL4 AND HL3 ASPHALT ARE TO BE IN COMPLIANCE WITH OPSS MUNI 102 AND OPSS MUNI 310.
- 7. GRADING AND COMPACTION METHODS ARE TO BE IN COMPLIANCE WITH THE LATEST GEOTECHNICAL REPORT, OPSS.MUNI 206, OPSS.MUNI 314 AND OPSS.MUNI 501.
- 8. ALL SURPLUS MATERIALS NOT DESIGNATED FOR SALVAGE TO BE DISPOSED OF OFF-SITE BY CONTRACTOR AND TO CONFORM TO ON-SITE AND EXCESS SOIL MANAGEMENT REGULATION OF ONTARIO. PROVIDE PROPERTY OWNER RELEASE FORM TO THE SATISFACTION OF A QUALIFIED PROFESSIONAL (QP) AND TESTING AGENCY.
- 9. CONCRETE FOR CURBS, SIDEWALK AND DRIVEWAYS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH AS SPECIFIED.
- 10. SPECIAL INSPECTION BY THE TESTING AGENCY REQUIRED FOR ALL COMPACTION TESTING.
- 11. SUBGRADE INSPECTION BEFORE PLACING GRANULAR BASE SHALL BE COMPLETED BY TESTING AGENCY
- 12. REFER TO LATEST GEOTECHNICAL REPORT AND HYDROGEOLOGICAL REPORT FOR DEWATERING REQUIREMENTS AND EARTH WORK MATERIALS CRITERIA FOR EXCAVATION, BEDDING BACKFILL AND GRADE RAISE. ALL MATERIALS TO BE APPROVED BY
- 13. TOPSOIL/SOIL STOCKPILE LOCATION TO BE CONFIRMED BY CONTRACTOR. SILT FENCE TO BE PLACED AROUND PERMITER OF STOCKPILE. MAXIMUM HEIGHT OF TOPSOIL STOCKPILES TO BE 3.0m.
- 14. ALL SEWERS WITH LESS THAN 2.0m OF COVER SHALL BE INSULATED FROM AS PER CITY OF OTTAWA STANDARD W22
- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA AS IDENTIFIED IN THE PLANS. 2. EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY. CONTRACTOR SHALL PROVIDE
- 3. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND STORED AT THE PROJECT SITE AS DIRECTED BY THE

LOCATION OF DISPOSAL SITES AND APPROPRIATE RELEASE FORMS FROM LAND OWNERS ACCEPTING THE MATERIAL AT THE

- 4. ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- 5. CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
- 6. SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT

- 1. ADJUST ALL INCIDENTAL STRUCTURES, HYDRANTS, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS TO
- 2. CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ETC.) TO CLEAR ANY
- EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) WHERE CONFLICT OCCURS. 3. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO
- NATURAL GAS, ELECTRICAL, COAXIAL, FIBRE OPTIC, AND TELEPHONE SERVICES.
- EXACT LOCATION AND DEPTH OF UTILITIES AND SUBMIT TO TESTING AGENCY.
- 5. ALL WORK TO CONFORM TO OPSD STANDARDS, ONTARIO BUILDING CODE, AND THE LOCAL MUNICIPALITY AND/OR REGION.
- 6. CONTRACTOR TO SUPPORT AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION AS PER CITY OF OTTAWA STANDARDS

4. BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE, BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED

### STORM SEWER

- 1. MANHOLE FRAME AND COVERS TO BE CITY OF OTTAWA STANDARD S25.
- 2. CATCH BASIN AND CATCHBASIN MANHOLE FRAMES AND GRATES TO BE OPSD 400.100, AND CITY OF OTTAWA STANDARD S28.1
- 3. FRAME AND COVERS AND FRAME AND GRATES TO BE INSTALLED WITH MINIMUM OF ONE ADJUSTMENT UNIT (75mm) TO A MAXIMUM OF 3 ADJUSTMENT UNITS (300mm), AND BE INSTALLED AS PER OPSD 704.010.
- 4. SINGLE CATCHBASINS, DOUBLE CATCHBASINS AND STORM MANHOLES WITH 0.6m SUMPS. AS PER OTTAWA STANDARDS.
- STORM MANHOLES & CATCH BASIN MANHOLES:

MANHOLES SHALL BE AS PER OPSD 708.020.

- 1200Ø AS PER OPSD 701.010. 701.030. 701.031 WITH FLAT CAP. 1500Ø - AS PER OPSD 701.011, 701.040, 701.041 WITH FLAT CAP.
- 1800Ø AS PER OPSD 701.012, 701.050, 701.051 WITH FLAT CAP. 2400Ø - AS PER OPSD 701.013, 701.060, 701.061 WITH FLAT CAP.
- 3000Ø AS PER OPSD 701.014, 701.070, 701.071 WITH FLAT CAP. DCBMH'S - 1500Ø AS PER OPSD 701.011, 701.040, 701.041, 703.021 WITH FLAT CAP.
- 6. SUBDRAINS TO BE INSTALLED AT EACH CATCH BASIN LOW POINT, 5.0m LONG SECTIONS OF SUBDRAIN PIPE TO BE CONNECTED TO ALL FOUR SIDES OF CATCH BASIN STRUCTURES. PERFORATED SUBDRAINS TO BE AS PER OPSD 216 021 WRAPPED IN FILTER FABRIC CONFORMING TO OPSS 1860 FOR GEOTEXTILE CLASS 1 WITH OPENING SIZE OF 150 TO 450 MICRONS SUCH AS "BIG 'O'
- SOCK FILTER SOCK PLUS" OR APPROVED EQUIVALENT. 7. STORM SEWER PIPE SHALL BE PVC SDR35 FOR 150mmØ UP TO 450mmØ AND CONCRETE CLASS 65-D FOR 525mmØ AND LARGER. PIPE MATERIAL ALTERNATIVE TO BE AS PER LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS. ALL PIPE SHALL INCLUDE REQUIRED COUPLER GASKETS. BEDDING AND COVER MATERIAL AS PER OPSD 802.030 FOR RIGID PIPE. CONNECTIONS TO
- 8. INTERNAL JOINTS IN PRECAST SECTIONS SHALL BE MORTARED AND BRUSHED FINISHED AND ALL LIFT HOLES COMPLETELY
- 9. MAINTENANCE HOLE STEPS TO BE HOLLOW CIRCULAR ALUMINUM STEPS AS PER OPSD 405.010. 10. STORM SEWER TO BE INSULATED WHERE DEPTH OF COVER IS LESS THAN 2.0m.
- 11. BENCHING SHALL BE PLACED TO THE LEVEL OF THE OBVERT, AS PER OPSD 701.021, UNLESS OTHERWISE SPECIFIED AS PER LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS
- 12. SHOP DRAWINGS TO BE PROVIDED, AT A MINIMUM, FOR ALL STRUCTURES INCLUDING CATCH BASINS, CATCH BASIN MANHOLES, MANHOLES, OUTLET STRUCTURES, UNDERGROUND STORAGE TANKS, QUALITY CONTROL STRUCTURES, JERSEY BARRIERS, GUIDE RAIL SYSTEMS, AND RETAINING WALLS.
- 13. ADS FD-5HC OGS UNIT OR APPROVED EQUIVALENT TO BE INSTALLED AS THE QUALITY CONTROL STRUCTURE.

# SANITARY SEWER

- 1. ALL SANITARY SEWERS TO BE PVC DR-35 UNLESS SHOWN OTHERWISE.
- 2. ALL SANITARY PDC TO HAVE A PREFERRED COVER OF 2.4m AT PROPERTY LINE (MINIMUM 2.4M) AND SHALL BE SET TO A
- MINIMUM 2% GRADE UNLESS NOTED OTHERWISE. 3. ALL SANITARY MANHOLES TO BE BENCHED AS PER LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS.
- 4. PROVIDE BACK WATER VALVE AS PER CITY OF OTTAWA STANDARD (S14, S14.1, S14.2)

### WATERMAIN

- 1. WATERMAIN TO BE INSTALLED IN ACCORDANCE WITH OPSS 441 AND CITY OF OTTAWA'S SPECIFICATION F-4411.
- 2. WATERMAIN CLEARANCES AND CROSSINGS PER SECTION 7.3.5.7 OF THE 2012 OBC AND SECTION 15 OF THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERATIONS AUTHORIZED UNDER A DRINKING WATER WORKS PERMIT (MOE, JUNE 2012). THIS INCLUDES MINIMUM 2.5m HORIZONTAL CLEARANCE FROM ANY SEWER AND/OR 0.5m CLEARANCE UNDER AND 0.25m OVER SEWERS WITH ADEQUATELY SUPPORTED SEWERS, WITH WATERMAIN JOINTS 2.44m FROM THE SEWER. WATERMAIN
- DEFLECTIONS TO CONFORM TO CITY OF OTTAWA STANDARD DRAWING W25 AND W25.2.
- WATERMAINS TO HAVE 2.4m MINIMUM COVER FROM FINAL GRADE. 4. WATERMAIN AND APPURTENANCES SHALL BE FLUSHED AND CHLORINATED IN ACCORDANCE WITH CITY OF OTTAWA'S
- 5. CATHODIC PROTECTION, TRACER WIRE, BACKFLOW PREVENTION, JOINT RESTRAINTS AND THRUST BLOCKS TO CONFORM TO
- CITY OF OTTAWA'S STANDARD SPECIFICATION F-4411. 6. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 1105.010 AND CITY OF OTTAWA'S SPECIFICATION F-4414 AND

STANDARD DRAWING W18 AND W19

- SURFACE WORKS
- 1. CURB AND GUTTER AS PER OPSS AND OPSD, UNLESS SPECIFIED OTHERWISE BY LOCAL MUNICIPALITY
- 2. CONCRETE BARRIER CURB WITHIN MUNICIPAL RIGHT OF WAY AS PER CITY OF OTTAWA'S SC1.1. 3. CONCRETE SIDEWALK AS PER OPSS AND OPSD, UNLESS SPECIFIED OTHERWISE BY LOCAL MUNICIPALITY. SIDEWALKS TO HAVE MINIMUM BEDDING OF 150mm COMPACTED GRANULAR A. CONCRETE SIDEWALK THICKNESS TO BE MINIMUM 125mm. SIDEWALK
- THICKNESS TO BE INCREASED TO 200mm AT ENTRANCES TO RESIDENTIAL BLOCKS, COMMERCIAL BLOCKS, AND MAINTENANCE
- 4. ALL CONCRETE STRENGTH IS 30MPA WITHIN 28 DAYS WITH 6% +/- 1% AIR ENTRAINMENT, UNLESS OTHERWISE STATED. GRASSED AREAS - 150mm TOPSOIL AND No. 1 NURSERY SOD. REFER TO LANDSCAPING DRAWINGS.
- 6. ALL RENOVATED AND NEW SITE ENTRANCES TO BE PER CITY OF OTTAWA SC7.1
- 7. SIDEWALK WITHIN ROW TO BE PER CITY OF OTTAWA SC1.4.
- 8. CURB WITHIN ROW TO BE PER CITY OF OTTAWA SC1.1
- 9. FULL DEPTH PAVEMENT STRUCTURE OF PARKING LOT:
- 50mm HL8 BASE ASPHALT 150mm GRANULAR 'A' 450mm GRANULAR `B

40mm HL3 SURFACE ASPHALT

- 40mm HL3 SURFACE ASPHALT 60mm HL3 BASE ASPHALT 70mm HL8 BASE ASPHALT 150mm GRANULAR 'A'
- 550mm GRANULAR `B' CONCRETE PAVEMENT (AT LOADING DOCKS)
- 230mm CONCRETE (30MPa 100mm OPSS MUNI 320 (OPEN GRADED DRAINAGE LAYER) 400mm GRANULAR 'A'

CONTINUOUSLY REINFORCED WITH #3 BAR AT 400mm ON CENTER EACH WAY

5. REFER TO LATEST GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN REPORT AND LATEST SUPPLEMENTARY TECHNICAL MEMORANDOM, CONTRACTOR TO REQUEST LATEST VERSION: 60634622 SUPPLEMENTARY GEOTECHNICAL INVESTIGATION AT DYT3 OTTAWA, ONTARIO

By Lily Xu at 4:15 pm, Jun 19, 2023

MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, INFRASTRUCTURE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

2625 SHEFFIELD ROAL

CHOICE PROPERTIES REIT 700-22 ST.CLAIR AVENUE EAST TORONTO, Ontario, M4T 2S5 647 533 5057 tel

### CONSULTANT

www.aecom.com

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL JTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY

NITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBE

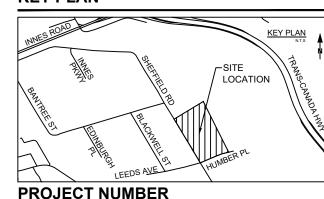
JSED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE



ISSUE/REVISION			
	I		
7	2023-03-22	REISSUED FOR SPA	
6	2023-03-06	ISSUED FOR BID	
5	2023-02-07	REISSUED FOR SPA	
4	2022-12-02	ISSUED FOR BID	
3	2022-11-23	ISSUED FOR BID	
2	2022-10-07	ISSUED FOR SPA	

I/R DATE DESCRIPTION



GENERAL CIVIL NOTES

# SHEET NUMBER