PPROSED GAS STATION

1480 DERRY ROAD EAST

MISSISSAUGA, ONTARIO

FUNCTIONAL SERVICING REPORT

FEBRUARY 21, 2020

Prepared by:

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1.0 Background

n Architecture Inc. has been retained by Vicky Aulakh, Probh Aulakh Ltd. to prepare a Functional Servicing Report for the 1480 Derry Road East, Mississauga ON, a commercial located at the corner of the south side of Derry Road East and the west of Dixie Road in city of Mississauga.

The purpose of the Functional Servicing Report (FSR) is to evaluate the servicing demands and propose feasible connection and disposal points for municipal services. The report also evaluates the impact of proposed development in terms of stormwater requirements as per city and region criteria.

The subject site is bounded by Derry Road East to the north side, Dixie Road on the east side, existing commercial property on the west side and vacant land on the south side. Refer to location shown below as Figure 1.

Figure 1 - Site Location Plan

2. 0 Existing Site Condition

Figure 2 – Existing Condition

3. 0 Land Use & Legal Description

The project site area is 0.42 acres (0.17 hectares). Currently the site has a parking lot covered with gravel and partly covered with grass.

The subject site's legal description is Part of LOT 10, COSESSION 3, EAST OF HURONTARIO STREET, 43R31711, PTS 5,6 (Geographical Township of Toronto), City of Mississauga, Regional Municipality of Peel. (Refer to Plan of Survey dated June 12, 2017 attached in Appendix A).

4. 0 Drainage & Topography

Existing topography shows that this is relatively flat land with the north-east corner slopes towards south-west corner of the site. The difference between elevations of north-east to south-west is around 0.08m.

4.1 Existing Services

Existing water and storm services are located on Derry Road East. There are no sanitary services along the property line of Derry Road East and Dixie Road. Closest sanitary sewer is on Derry

Road East around 200m east of the property line. Record drawings obtained from Region of Peel and City of Mississauga shows drawings show existing services in plan and profile as summarized below in Table 1.

Table 1 – Existing Services Summary

Service	Size &Material	Location
Water	750m CONC.	Dixie Road (50 mm Plug on Site)
Storm	450mm CONC.	Derry Road East, South Side
Sanitary	1050mm CONC.	Derry Road East Approx. 200m East of Property Limit

5.0 Proposed Development

The development proposal is for a 3 pump canopied gas station with two story C-store and office building parking spaces. The site layout is shown on Figure A 1.0 in Appendix C.

5.1 Design Criteria

The summary of design criteria shown in Table 2 has been used for the water demand and sanitary flow calculations expected from the proposed development.

6.0 Servicing Demand Calculations

6.1 Domestic Water Demands

As per Region of Peel – a custom demand calculation method followed considering the nature of the development. To calculate site specific water demand, OBC guideline used as follows:

(1)	Average water demand for Office Space: *O.B.C (8.2.1.3.B.12.v)*	950 L/day per Washroom
	No of Washroom	1
	Average Water Demand:	950 L/day
(3)	Average flow a Store Per m^2 of floor area:	5 L/Day

O.B.C (8.2.1.3.B.20)
Proposed C-Store Area: 192.57 m^2
Average Water Demand: 192.57 x 5 = 962.85 L/ day

(3) Average flow per Nozzle: 560 l /nozzle/day
O.B.C (8.2.1.3. B.19. i)
Number of Nozzle: 6
Average Water Demand: 560 x 6 L/day = 3360 L/day

Total Average water demand = 950 + 962.85 + 3360 = 5272.3 L/day

As per MOECC standards, a Maximum Day Factor of 2.0 and peak hourly demand Factor of 4.5 will be applied to the average day flows;

Maximum day demand = 5372.3 x 2.0 = 10545.7 L/day = 0.122 L/sec
Maximum hour demand (AM) = 5372.3 x 4.5 = 23727.8 L/day = 0.275 L/sec

Table 2 – Water & Sanitary Design Criteria

WATER SYSTEM DESIGN CRITERIA	
Commercial Average Demand	300 Lpcd [1]
Max Day Factor	2.0
Peak Flow	Max Day + Fire Flow
Fire Flow Calculation Method	FUS Method
Min System Pressure	20 psi under Max day +
WASTEWATER SYSTEM DESIGN CRITERIA	
Generation Rate	0.013 m^3/sec.[2]
Peaking Factor	Included
Equivalent Population for Commercial Development	50 person per hectare[3]

[1] *Section 2.3, page 4, Region of Peel watermain design criteria*
[2] *Region of Peel STD DWG 2-9-2 (Sewage Flows (excluding Infiltration, Region of Peel Design Criteria Manual – Sanitary Sewer*
[3] *Section 2.1, page3, Region of Peel Design Criteria Manual – Sanitary Sewer*

Extraneous Flows (I/I)	0.0002 m^3/sec/ha[4]
Allowance for Maintenance Hole	0.000028 m^3/sec/mh

6.1.1 Fire Flow

A fire flow demand for the proposed building has been calculated as per guidelines of Fire Underwriter Survey. Based on the type of construction, total floor areas and other fire suppression related information, fire flow demands have been calculated as 2000 L/min (33 l/sec). Refer to Table B1**,** Appendix B for detailed analysis.

6.1.2 Peak Flow

The peak flow calculated by adding Max Day Flow + Fire Flow = 0.122 + 33.0= 33.122 L /sec.

7.0 Waste Water Generation

Based on the Region of Peel's criteria, waste water flow calculated as follows:

(1) Commercial waste water generation rate: 0.013 m^3/sec.
(2) Extraneous Flow: 0.0002 m^3/sec/ha
(3) Lot Area: 0.17 m^2
(4) Site's extraneous flow: 0.0002 x 0.17= 0.000034 m^3/sec
(5) Maintenance Hole allowance: 0.000028 m^3/sec/MH
(6) No. of MH: 4
(7) Total Maintenance Hole allowance: 0.000028 x 4 = 0.000192 m^3/sec
(8) Waste water flow from the site including infiltration allowance is calculated (1) + (4) + (7) as 1142.72 L/day (**0.0132 L/sec**).

[4] *Section 2.3, page 4, Region of Peel Design Criteria Manual – Sanitary Sewer*

8.0 Proposed Servicing

The following service connections are proposed from the existing municipal infrastructure on Derry Road East. The services will be installed according to city/Region standards.

8.1 New Sanitary Connection

A new sanitary connection will be provided from the existing 1050mm diameter sanitary main on Derry Road. Two manholes along with 300 diameter sewer on Derry Road proposed to install to connect the site. The location of proposed sanitary service connection is shown in Figure C2 and Figure C2a (Appendix C). Sanitary Design Sheet attached in Appendix C.

8.2 New Domestic / Fire Water Connection

New 50mm service connections are proposed to be connecting to existing water connection plug on Derry Street East. The location of proposed water service connections are shown on Figure C2, Appendix C.

8.0 Stormwater Management

The preliminary storm water development is based on the requirements of the City of Waterloo Engineering Design Manual.

Table 3 – Storm Design Criteria

STORM MANAGEMENT DESIGN CRITERIA	
Quantity Control	Post development storm discharge is to be controlled to pre-development levels of for year through 100 years
Quality Control	MOE Level 1 Enhanced Protection
Water Balance	Retain first 5mm from each rainfall through on-site infiltration, filtration, evapo-transpiration and/or rainwater reuse

The following storm water management approach is proposed for the development.

- Post Development Flows to be controlled to pre-development levels with the help of onsite detention.
- Quality improvement to be achieved using oil/grit separator.
- Water Balance to be achieved through landscape areas and infiltration chambers.

8.1 Proposed Quantity Control

The pre-development land use breakdown and runoff coefficient calculation is as per Table 4 below. Pre-development landuse are shown in figure DR101, Appendix C.

Table 4 – Pre-Development Runoff Coefficient Calculations

AREA TYPE	AREA (M^2)	RUNOFF COEFFICIENT "C"	AREA x C
ASPHALT/CONC.		0.90	0.00
BUILDING ROOF		0.90	0.00
LANDSCAPED AREA	192.570	0.25	48.14
GRAVEL	1570.130	0.50	785.07
		ΣAREA X C	833.21
		WEIGHTED AVERAGE "C"	**0.47**
		AREA "A" (Hectares)	0.1763

Post development land use breakdown and runoff coefficient calculation is as per Table 5 below. Post-development landuse are shown in figure DR102, Appendix C.

Table 5 – Post Development Runoff Coefficient Calculations

AREA TYPE	AREA (M^2)	RUNOFF COEFFICIENT "C"	AREA x C
ASPHALT/CONC.	1268.680	0.90	1141.81
LANDSCAPED AREA	301.450	0.25	75.36
BUILDING	192.570	0.90	173.31
		ΣAREA X C	1390.49
		WEIGHTED AVERAGE "C"	**0.79**
		AREA "A" (Hectares)	0.1763

Quantity control through onsite detention (parking lot ponding) will limit the post-development runoff release to the allowable pre-development level. To provide quantity control of up to 100-year design storm, the controlled release rate shall be less than or equal to post development flow rate.

Table 6 – Comparison of Existing and Proposed Release Rates

Return Period (Years)	2	5	10	25	50	100
Pre-Development Allowable Flow (L/sec)	13.97	18.78	23.14	26.57	29.66	32.82
Post-Development Peak Flow (L/sec)	23.32	31.35	38.61	48.78	59.40	68.47
Orifice Controlled Flow (L/sec)	13.36	14.90	16.29	22.95	26.06	26.88

8.2 Required Onsite Detention

Require detention storage caused by flow restriction calculated for 2, 5, 10, 25, 50 and 100 years rainfall events and presented Table 6. Maximum depth of 0.15m will create total storage on paved surface of 29.22 m^3 (Refer: Drawing C1, Ponding Storage Table) and additional storage available in pipes, catch basin and manholes will be 3.86m^3. (Refer; Stormwater Management Report, Appendix C, Table 3)

Table 6 – Detention Storage Summary

Return Period (Years)	2	5	10	25	50	100
Detention Storage Required (m^3)	8.99	14.84	20.13	19.31	21.16	25.18
Storage Used in Pipe (m^3)	1.74	1.74	1.74	1.74	1.74	1.74
Storage Used in MH (m^3)	2.36	2.36	2.36	2.36	2.36	2.36
Storage Used in Ponding (m^3)	4.89	10.74	16.03	15.21	17.06	21.08
Total Available Storage	**30.78**	**30.78**	**30.78**	**30.78**	**30.78**	**30.78**

9.0 Water Balance

According to City's SWM Guidelines retain storm water on-site, to the extent practicable, to achieve the same level of annual volume of overland runoff allowable from the development site under pre-development conditions. Site volume requirements for water balance are calculated at 5mm rainfall depth for catchment areas. Initial abstraction for the site calculated and presented in Table 4 below:

Table 7 – Detention Storage Summary

Catchment	Area (m^2)	IA (mm)	Retention(m^3)
Rooftop	192.57	1	0.19
Asphalt/Concrete Surface	1,268.68	1	1.27
Landscaped Surface	301.45	5	1.51
Total	**2.97 m^3**		

According to City's guideline, required quantity for water balance was calculated as follows:

Post Development Water Balance Quantity = Site Area x 5mm = 1762.7 x (5/1000) = 8.81 m^3

Stormtech storage tank (DC-780) recommended as shown in Drawing C2. Bed size of the chamber is 12m^2 (5.55 m x 2.09m) with a capacity of 6.0 m^3. Water Balance calculations are summarized below in Table 8:

Table 8: Water Balance Quantity

Required Water Balance Quantity (m^3)	8.81
Water Balance Available: 1) Initial Abstraction (m^3) 2) Storm chamber (MC3500) (m^3)	 2.97 6.0

Total Water Balance Quantity Available (m^3)	8.97

Water balance deficit will be met through the infiltration chambers proposed on the north-east driveway as shown in Drawing C2, Appendix C.

10.0 Summary & Conclusions

The report presents analysis of existing infrastructure, proposed development concept and servicing demands. The surrounding streets contain water and sanitary services at adequate depths. A stormwater management strategy has been proposed which provides the required quality and quantity controls.

Conceptual servicing and stormwater management plan have been included in support of the proposed development.

Respectfully submitted,

Abu S Ziauddin P. Eng. M.Eng
PROJECT MANAGER
n Architecture Inc

Ramyar Mehraban M.Eng. EIT
MUNICIPAL PROJECT DESIGNER
n Architecture Inc.

Appendix A

Ontario

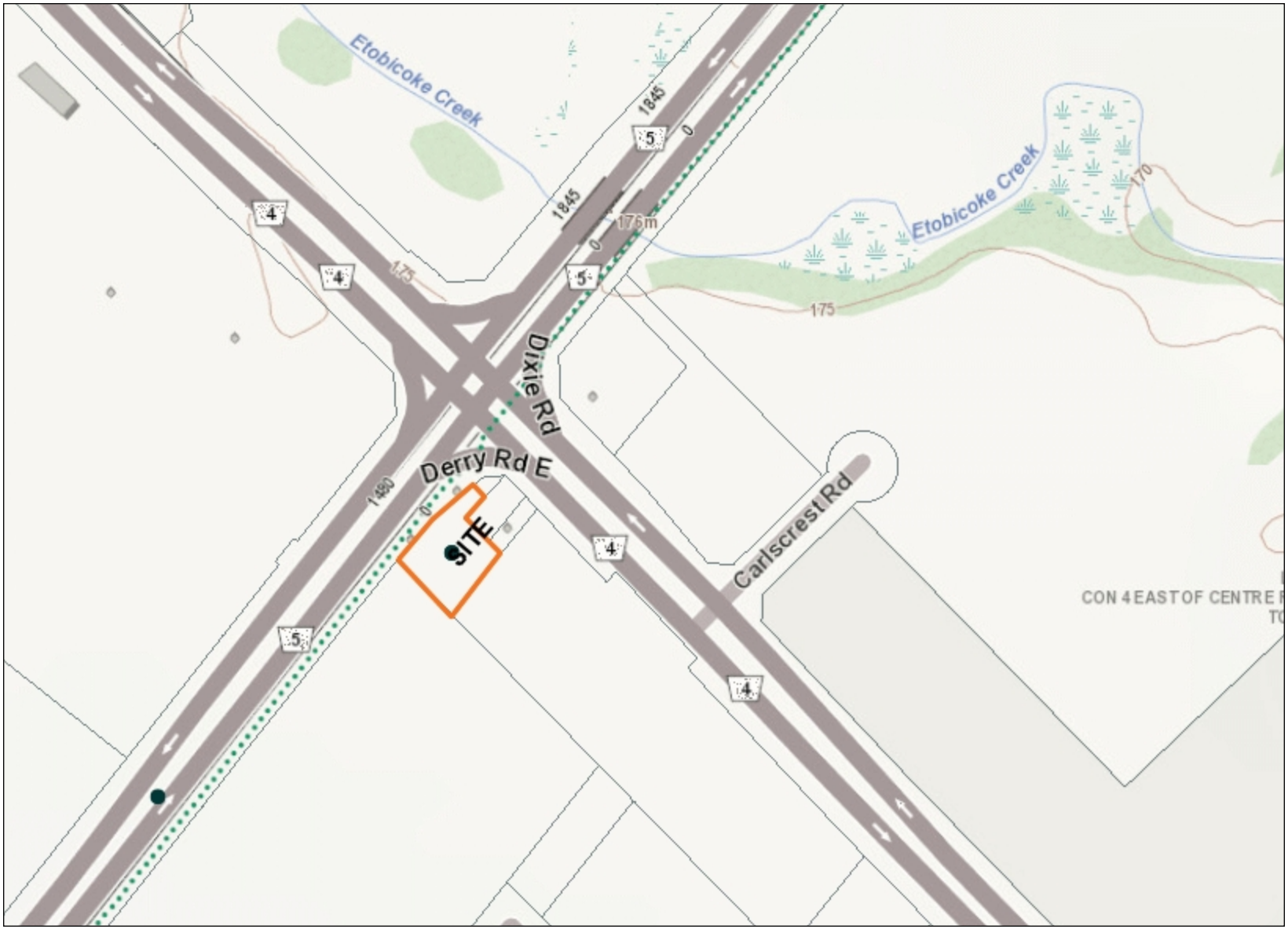
MINISTRY OF NATURAL RESOURCES AND FORESTRY

Make a Topographic Map

Proposed Gas Station

Notes:

1480 Derry Road East, Mississauga



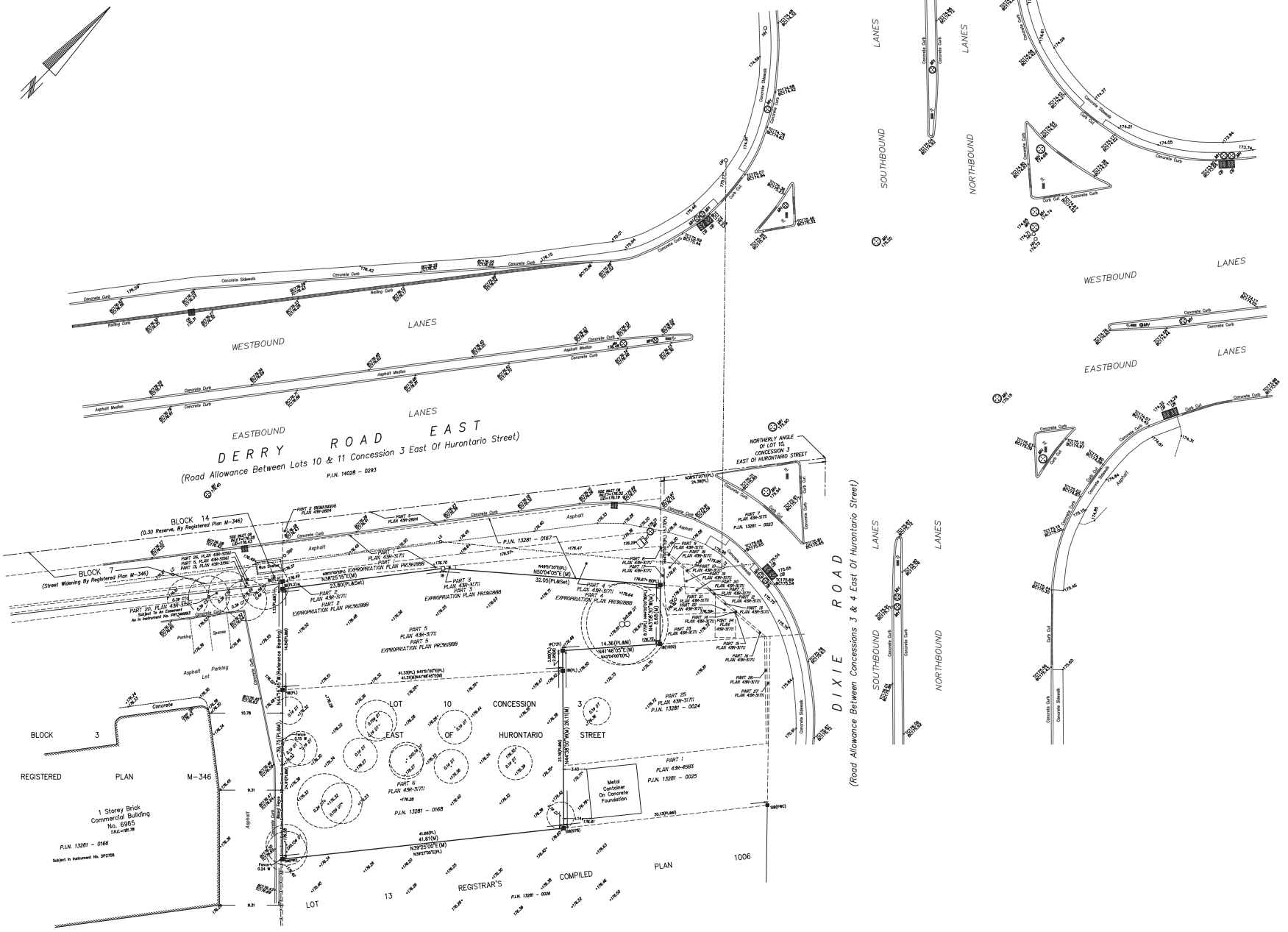
Legend

- Building as Symbol
- Building to Scale
- Airport
- Heliport \ Hospital Heliport
- Seaplane Base
- Ferry Route
- Trail Head \ Trail
- Railway \ Train Station
- Railway with Bridge
- Railway with Tunnel
- Road (Major → Minor)
- Winter Road
- Road with Bridge
- Road with Tunnel
- Primary, Kings or 400 Series Highway
- Secondary Highway
- Tertiary Highway
- District, County, Regional or Municipal Road
- Toll Highway
- One Way Road
- Road with Permanent Blocked Passage
- Road with Address Ranges
- Hydro Line, Communication Line or Unknown Transmission Line
- Natural Gas Pipeline, Water Pipeline or Unknown Pipeline
- Spot Height
- Index Contour
- Contour
- Wooded Area
- Wetland
- Waterbody
- Waterbody Elevation
- Watercourse
- Falls
- Rapids
- Rapids \ Falls
- Rapids
- Rocks
- Lock Gate
- Dam \ Hydro Wall
- Dam \ Hydro Wall
- Provincial \ State Boundary
- International Boundary
- Upper Tier \ District Municipal Boundary
- Lower Tier \ Single Tier Municipal Boundary
- Lot Line
- Indian Reserve
- Provincial Park
- National Park
- Conservation Reserve
- Military Lands

0 0.2 km

Projection: Web Mercator

N



SURVEYOR'S REAL PROPERTY REPORT – PART 1
PLAN OF

Part of LOT 10, CONCESSION 3 EAST OF HURONTARIO STREET

(Geographic Township Of Toronto)

CITY of MISSISSUAGA

Regional Municipality Of Peel

SCALE 1 : 250

5m 4m 3m 2m 1m 0m 5m

GTA SURVEYING INC.

METRIC

DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

BEARING NOTE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE WEST LIMIT OF PARTS 5 AND 6, HAVING A BEARING OF N44°16'45"W ACCORDING TO PLAN 43R-31711

ELEVATION NOTE

ELEVATIONS ARE REFERRED TO THE CITY OF MISSISSAUGA BENCHMARK NO. 956 LOCATED AT PLATE MOUNTED HORIZONTALLY IN THE CONCRETE PAD IN FRONT OF THE TRAFFIC LIGHT CONTROL BOX AT THE SOUTH-EAST CORNER OF THE INTERSECTION OF DREW ROAD AND DIXIE ROAD HAVING A PUBLISHED ELEVATION OF 180.256 METRES

LEGEND

□	DENOTES	SURVEY MONUMENT SET
■	→ ←	SURVEY MONUMENT FOUND
PL	→ ←	PLAN 43R-31711
PL2	→ ←	PLAN 43R-31551
N,S,E,W	→ ←	NORTH,SOUTH,EAST,WEST
M	→ ←	MEASURED
SIB	→ ←	STANDARD IRON BAR
IB	→ ←	IRON BAR
IP	→ ←	IRON PIPE
WIT	→ ←	WITNESS
P.I.N.	→ ←	PROPERTY IDENTIFIER NUMBER
------	→ ←	OVERHEAD WIRES
LS	→ ←	LIGHT STANDARD
CB	→ ←	CATCH BASIN
BC	→ ←	BOTTOM OF CURB
TC	→ ←	TOP OF CURB
CT	→ ←	CONIFEROUS TREE
DT	→ ←	DECIDUOUS TREE
BP	→ ←	BELL PEDESTAL
MH	→ ←	MANHOLE
HT	→ ←	HYDRO TRANSFORMER
GV	→ ←	GAS VALVE
TL	→ ←	TRAFFIC LIGHT
(1059)	→ ←	WILLIAM MICHAEL FENTON, O.L.S.
(731)	→ ←	JOHN ROWLAND DUNNING, O.L.S.
(978)	→ ←	JOHN CAMPBELL BEATSON, O.L.S.
(PWC)	→ ←	PUBLIC WORKS CANADA
T.R.E.	→ ←	TOP OF ROOF ELEVATION

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2018552

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY
ISSUED BY THE SURVEYOR
As per Ontario Regulation 1026, Section 29(3).

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT, AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 31st DAY OF MAY, 2017.

REVISION NOTE

THIS PLAN WAS REVISED ON JULY 26, 2017 – TO ADD TOPOGRAPHY FOR THE INTERSECTION

JUNE 12, 2017
DATE

JACEK WALCZAK
ONTARIO LAND SURVEYOR

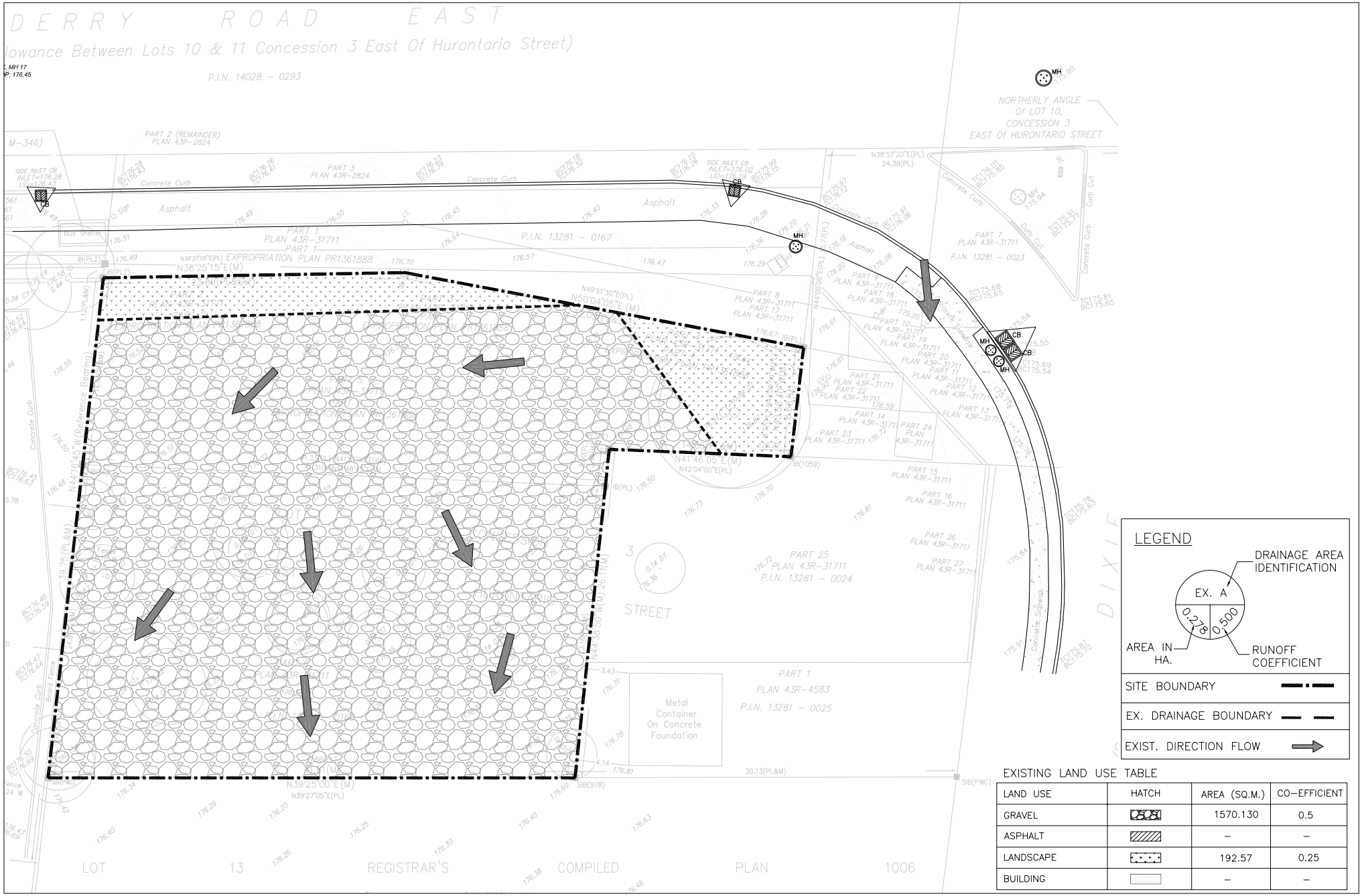
THIS PLAN WAS PREPARED FOR N ARCHITECTURE INC.

PART 2 – SURVEY REPORT

1) PLEASE NOTE LOCATION OF FENCES AND OVERHEAD WIRES
2) REGISTERED EASEMENTS AND/OR RIGHTS-OF-WAY: NONE
3) THIS PLAN DOES NOT CERTIFY COMPLIANCE WITH ZONING BY-LAWS

GTA
Greater Toronto Acres SURVEYING Inc.
7003 Steeles Ave. West, Unit 12, Toronto ON M9W 0A2
Tel: (416) 679-0572
E-MAIL: jw@gtasurveying.ca

DRAWN: R.C./M.C. | CHECKED: P.W. | PROJECT 17208



LEGEND

DRAINAGE AREA IDENTIFICATION

EX. A

0.278 AREA IN HA.

0.500 RUNOFF COEFFICIENT

SITE BOUNDARY

EX. DRAINAGE BOUNDARY

EXIST. DIRECTION FLOW

EXISTING LAND USE TABLE

LAND USE	HATCH	AREA (SQ.M.)	CO–EFFICIENT
GRAVEL		1570.130	0.5
ASPHALT		–	–
LANDSCAPE		192.57	0.25
BUILDING		–	–

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PROJECT:

PROPOSED GAS STATION 1480 DERRY ROAD EAST, MISSISSAUGA, ON.

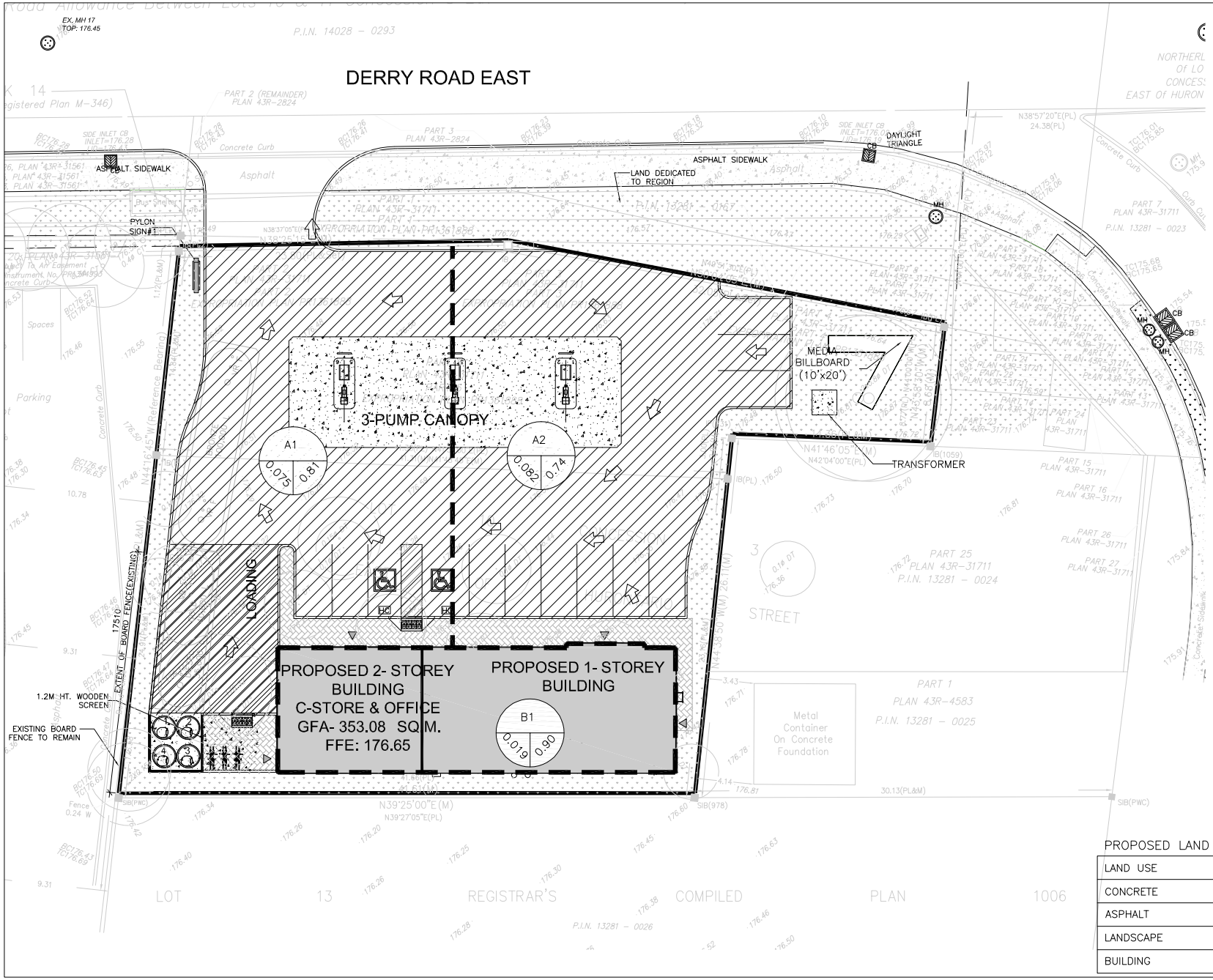
DRAWING TITLE:

PRE-DEVELOPMENT LAND USE & DRAINAGE PATTERN

DRAWN BY: AZ	DATE: 2019-05- 15
CHECKED BY: AZ	SCALE: 1:400
PROJECT NO.: **16-90**	DRAWING NO.: **DR-101**

N (NORTH GEODETIC)

PROJECT NORTH



LEGEND

DRAINAGE AREA IDENTIFICATION (A1; AREA IN HA. 0.005; RUNOFF COEFFICIENT 0.900)	
SITE BOUNDARY	
DRAINAGE BOUNDARY	
MAJOR OVERLAND FLOW	

PROPOSED LAND USE TABLE

LAND USE	AREA (SQ.M.)	HATCH	RUN OFF CO-EFFICIENT
CONCRETE	292.58		0.90
ASPHALT	936.1		0.90
LANDSCAPE	273.86		0.25
BUILDING	260.16		0.90

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PROJECT:

PROPOSED GAS STATION 1480 DERRY ROAD EAST, MISSISSAUGA, ON.

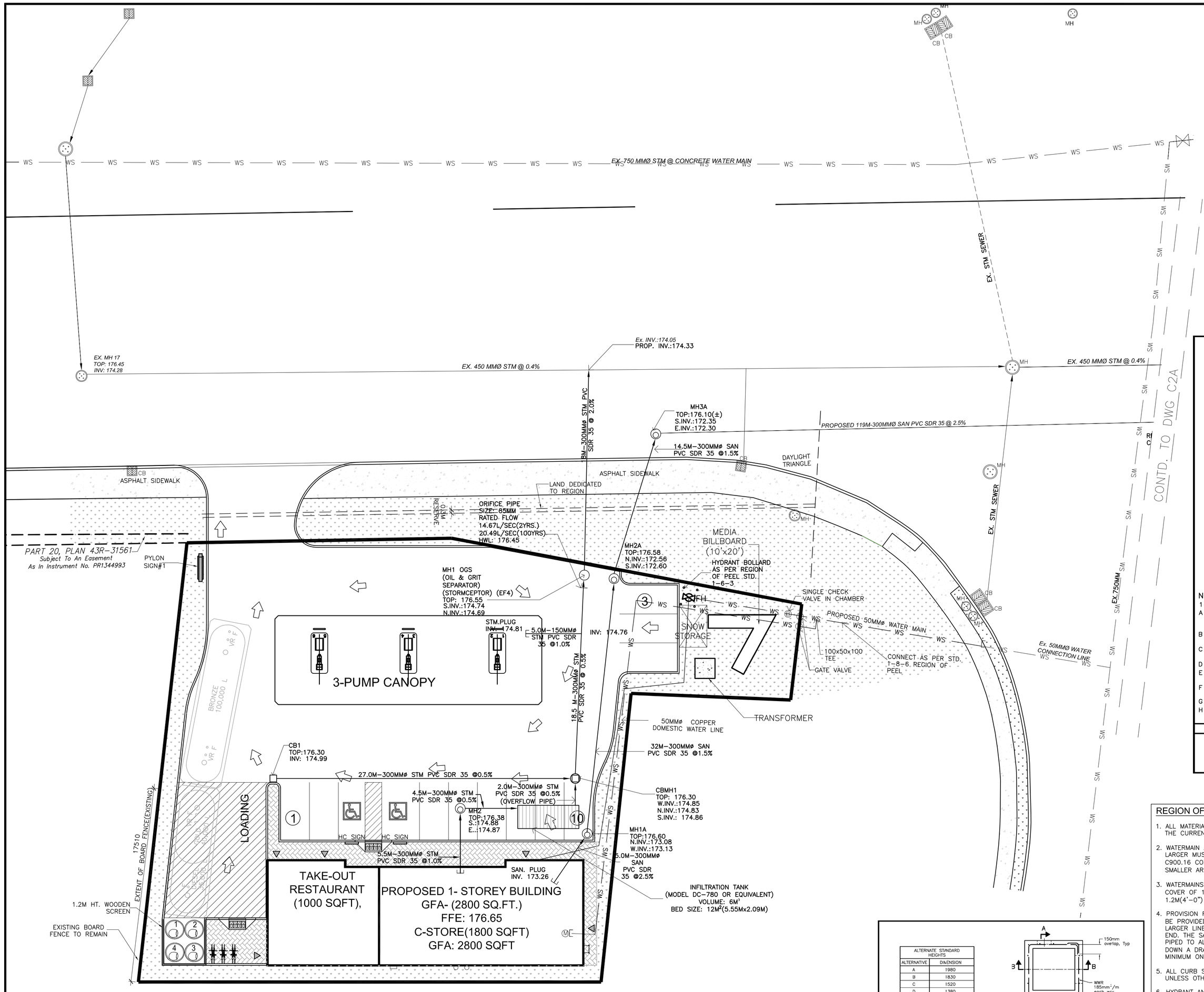
DRAWING TITLE:

POST-DEVELOPMENT SITE DRAINAGE PLAN

DRAWN BY: AZ	DATE: 2019-05- 15
CHECKED BY: AZ	SCALE: 1:400
PROJECT NO.: **16-90**	DRAWING NO.: **DR-102**

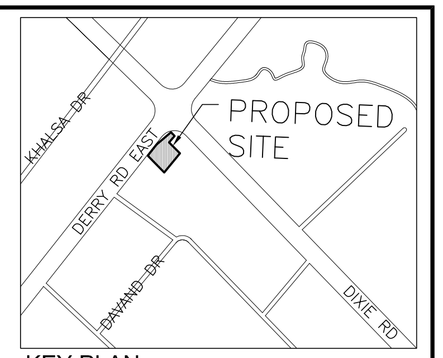
N (NORTH GEODETIC)
PROJECT NORTH

Appendix B



CITY TRANSPORTATION AND WORKS DEVELOPMENT ENGINEERING NOTES

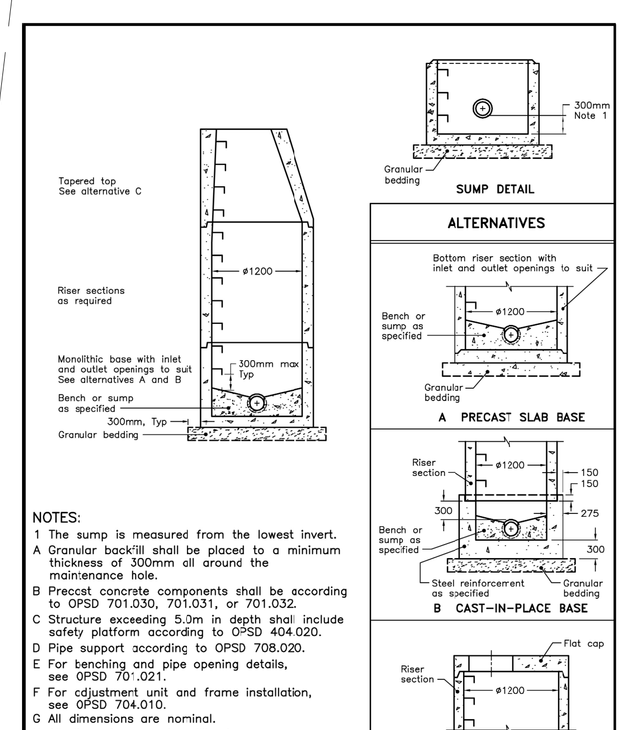
A. ALL SURFACE DRAINAGE WILL BE SELF CONTAINED,COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
B. THE PORTIONS OF THE DRIVEWAY WITHIN THE MUNICIPAL BOULEVARD WILL BE PAVED BY THE APPLICANT TO CITY REQUIREMENTS AND STANDARDS.
C. ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED FROM THE SITE.
D. THE EXISTING DRAINAGE PATTERN WILL BE MAINTAINED EXCEPT WHERE NOTED.
E. THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQUIRED LOCATES PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT OF WAY.
F. THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE PLAN.
G. PRIOR TO CONSTRUCTION TAKING PLACE, ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH & SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.
H. SHOULD ANY WORKS BE REQUIRED WITHIN THE MUNICIPAL RIGHT OF WAY, A ROAD OCCUPANCY PERMIT WILL BE REQUIRED. PUCC APPROVAL WILL BE REQUIRED. FOR FURTHER INFORMATION, PLEASE CONTACT THE PUCC/PERMIT TECHNOLOGIST , LOCATED AT 3185 MAVIS ROAD.



KEY PLAN

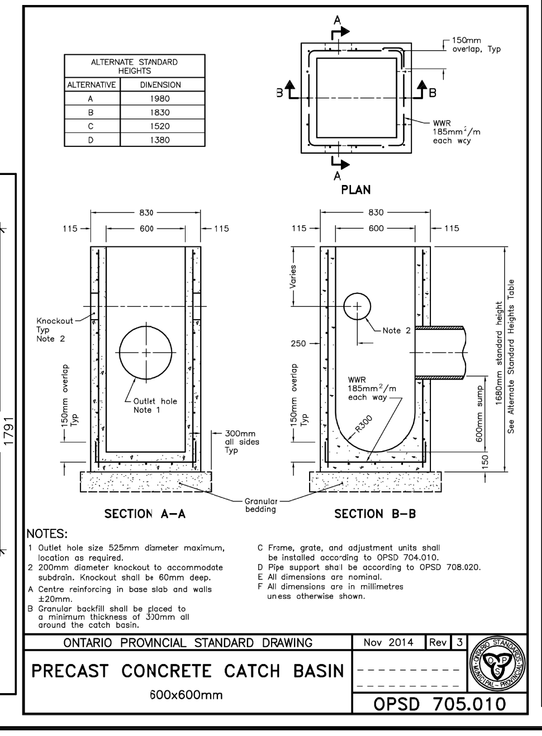
LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- 1M D/C — PROPOSED DEPRESSED CONCRETE CURB
- PROPOSED STORM SEWER
- MH1 — PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN MANHOLE
- CB — PROPOSED CATCH BASIN
- MH1A — PROPOSED SANITARY MANHOLE
- EX.CB — EXISTING CATCH BASIN
- EXISTING FIRE HYDRANT
- BARRIER FREE PARKING
- MAIN ENTRANCE
- OVERHEAD DOOR
- U/P — UTILITY POLE
- EXISTING TREE
- A.W. — ARIAL WIRE
- BARRIER CURB
- WATER VALVE
- B.L. — BOLLARDS LINE
- (M) — WATER METER LOCATION
- (B) — BACK FLOW PREVENTER
- (V) — WATER VALVE



NOTES:
1 The sump is measured from the lowest invert.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev	5
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER			OPSD 701.010



NOTES:
A Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
B Pipe support shall be according to OPSD 708.020.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

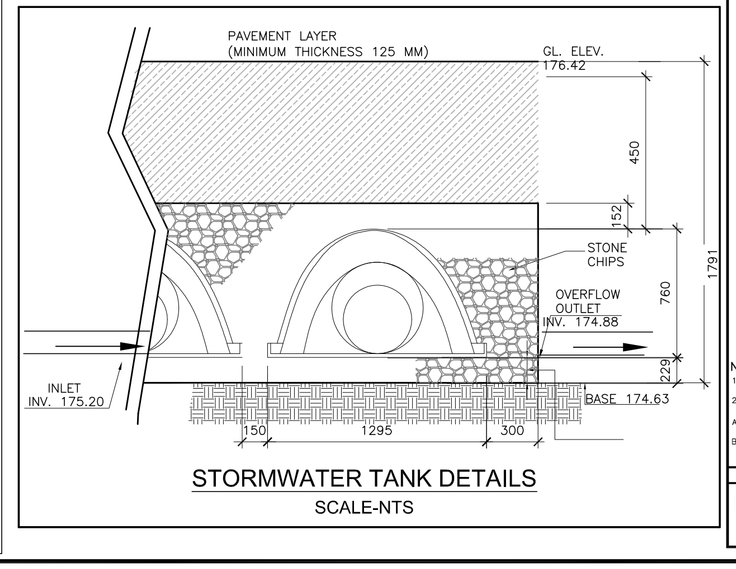
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev	3
PRECAST CONCRETE CATCH BASIN 600x600mm			OPSD 705.010

GENERAL NOTES

1. READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND LANDSCAPING PLANS.
2. ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
3. ALL WORK, MATERIALS AND CONSTRUCTION METHODS TO CONFORM WITH THE LATEST STANDARDS, SPECIFICATIONS, POLICIES, REGULATIONS, GUIDELINES AND LAWS FOR THE CITY OF TORONTO, THE ONTARIO BUILDING CODE (OBC), MINISTRY OF THE ENVIRONMENT (MOE), ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS (OPSD AND OPSS), THE ENVIRONMENTAL PROTECTION ACT AND THE WATER RESOURCES ACT. THE MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
4. THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS COMPILED FROM LOCATES INFORMATION AND RECORD DRAWINGS FROM THE CITY. THE INFORMATION IS SHOWN FOR GENERAL INFORMATION ONLY AND THE ACCURACY OR COMPLETENESS OF THE PROVIDED INFORMATION HAS NOT BEEN CONFIRMED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
5. THIS PLAN SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' PLANS. ANY DISCREPANCIES SHALL BE CLARIFIED PRIOR TO CONSTRUCTION. INFORMATION RELATED TO DIMENSIONS FOR PRIVATE ROADS, PARKING, CURBING, BUILDING LOCATION AND SETBACKS SHALL BE TAKEN FROM THE SITE PLAN PREPARED BY THE ARCHITECT.
6. ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES FOUND PRIOR TO OR DURING CONSTRUCTION SHALL BE CLARIFIED WITH THE ENGINEER.

INSPECTIONS:

7. ALL WORK IN THE MUNICIPAL RIGHT OF WAY AND EASEMENTS IS TO BE INSPECTED BY THE CITY PRIOR TO BACKFILLING. ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE INSPECTED BY THE CITY AS PER THE SITE PLAN AGREEMENT.
8. ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH MINIMUM 200MM TOPSOIL AND NO. 1 NURSERY SOD.
9. THE CONTRACTOR AGREES NOT TO MAKE A MATERIAL CHANGE OR CAUSE A MATERIAL CHANGE TO BE MADE TO A PLAN, SPECIFICATION, DOCUMENT OR OTHER INFORMATION, ON THE BASIS OF WHICH THIS DRAWING WAS APPROVED BY THE CITY, WITHOUT NOTIFYING, FILING DETAILS WITH AND OBTAINING WRITTEN AUTHORIZATION OF THE MUNICIPAL AND PROJECT ENGINEER.
10. ALLSTORMWATER MAMAGEMENT WORK, WATER SERVICING WORK AND SANITARY SEWER WORK INSIDE THE BOUNDARY OF THE SITE IS TO BE INSPECTED BY n ARCHITECTURE INC PRIOR TO BACKFILLING. ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE INSPECTED BY n ARCHITECTURE INC. AS PER APPROVED PLANS BY THE CITY.



STORMWATER TANK DETAILS
SCALE-NTS

REGION OF PEEL NOTES

1. ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
2. WATERMAIN AND/OR WATER SERVICE MATERIALS 100MM (4") AND LARGER MUST BE P.V.C DR-18 MANUFACTURED TO A.W.W.A SPEC. C900.16 COMPLETE WITH TRACER WIRE. SIZES 50MM(2") AND SMALLER ARE TO BE TYPE 'K' SOFT COPPER PIPE.
3. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7M(5'-6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2M(4'-0") FROM THEMSELVES AND ALL OTHER UTILITIES.
4. PROVISION FOR FLUSHING WATER LINE PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50MM(2") OUTLET ON 100MM(4") AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END. THE SAME SIZE AS THE LINE THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES, FLUSHING OUTLET TO BE 100MM(4") MINIMUM ON A FIRE HYDRANT.
5. ALL CURB STOPS TO BE 3.0M(10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SET TO REGION STANDARD 1-6-1, DIMENSIONS 'A' AND 'B' 0.70M(2') AND 0.90M(3') AND TO HAVE PUMPER NOZZLE.
7. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN, COPY OF GRADE SHEET MUST BE SUPPLIED TO THE INSPECTOR PRIOR TO THE COMMENCEMENT OF WORK, WHERE REQUESTED BY THE INSPECTOR.
8. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3M(12") OVER AND 0.50M(20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
9. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATION FROM EXISTING SYSTEMS.
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11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF HIS WORK WHETHER SHOWN ON THE PLANS OR NOT, AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
13. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING SUCH INSPECTION.
14. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTANT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.

SERVICING NOTES

SANITARY SEWERS
1. PIPE:- SHALL BE P.V.C CONFORMING TO CSA B182.2-06 CERTIFIED ASTM D 3034.04o.
2. BENCHING:- ALL SANITARY MANHOLES SHALL BE BENCHED AS PER OPSD 701.021.
3. BEDDING:- AS PER OPSD 802.030 CLASS B FOR RIGID PIPES.

STORM SEWERS
1. PIPE:- SHALL BE PVC SDR-35 CSA B182.2-06 CERTIFIED ASTM D 3034-04.
2. BENCHING:- ALL STORM MANHOLES SHALL BE BENCHED AS PER OPSD 701.021.
3. BEDDING:- AS PER OPSD 802.030 CLASS B FOR RIGID PIPES.
4. CATCHBASINS:- AS PER OPSD 705.010. CATCHBASIN LEADS SHALL BE 250MM PIPE UNLESS NOTED OTHERWISE FRAMES AND COVERS AS PER OPSD 400.020.

WATER MAINS
1. PIPE:- WATERMAIN PIPE SHALL BE POLYVINYL CHLORIDES (PVC) CONFORMING TO AWWA C900, INCLUDING TRACER WIRE BETWEEN HYDRANTS OR OTHER CONDUCTING APPURTENANCES. ALL WATERMAIN JOINTS AS REQUIERD FOR A 1000K PA. RATED PRESSURE.
2. HYDRANTS:- AS PER REGION OF PEEL STD. 1-6-1.
3. THRUST BLOCKING AND RESTRAINERS:- AS PER REGION OF PEEL STANDARDS.
4. CLEARANCE:- MIN. CLEARANCE BETWEEN WATERMAIN AND SEWER SHALL BE 0.50M. VERTICAL AND 2.5M HORIZONTAL.

TRENCH
1. TRENCHES TO BE DONE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT.
2. BACKFILL TRENCH WITH UNSHRINKABLE FILL WITHIN RIGHT OF WAY.

ROOF DRAINS
1. ROOF DRAINS WITH CONTROLLED OUTFLOWS WILL BE AS PER MECHANICAL DRAWINGS.

PAVEMENT DESIGN	LIGHT DUTY PARKING LOT	HEAVY DUTY DRIVEWAY
HL3 ASPHALT-TOP COURSE	40MM	40MM
HL8 ASPHALT- BINDER COURSE	85MM	85MM
GRANULAR 'A'- BASE	200MM	200MM
GRANULAR 'B'- SUB-BASE	255MM	325MM

INSPECTIONS
1. THE OWNER SHALL RETAIN THE SERVICE OF HIS CONSULTANTS TO ENSURE REQUIRED INSPECTION REPORTS AND CERTIFICATION REQUIREMENTS ARE SUBMITTED TO AFFECTED CITY DEPARTMENTS.

NOTE
1. THIS DRAWING INDICATES SITE SERVICING INFORMATION ONLY
2. FOR BUILDING AND SITE LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWING.

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PRINCIPAL: NITIN MALHOTRA, ARCHITECT.
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E: info@narchitecture.com
www.narchitecture.com

LICENSED PROFESSIONAL ENGINEER
A.S.ZIAUDDIN
100233432
11FEB.2020
PROVINCE OF ONTARIO

N (GEODETIC NORTH)
PROJECT NORTH

NOT FOR CONSTRUCTION

APPLICANT:
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SURVEY INFORMATION TAKEN FROM:
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7003 STEELES AVE. WEST, UNIT12,
TORONTO, ON M9W 0A2
TEL: (416) 679-0572
EMAIL: jw@gtasurveying.ca
PROJECT: 17208

MUNICIPAL ADDRESS & LEGAL DESCRIPTION:
1480 DERRY ROAD EAST,
MISSISSAUGA, ON.
PART OF LOT 10, CONCESSION 3 EAST OF HURONTARIO STREET, 43R31711,PTS 5, 6 (GEOGRAPHIC TOWNSHIP OF TORONTO), CITY OF MISSISSAUGA, REGIONAL MUNICIPALITY OF PEEL

No.	Date	Version	Dwn.
1.	11 FEB. 2020	ISSUED FOR SPA	AZ

Contractor must verify all job dimensions, drawings, details and specifications and report any discrepancies to designer before proceeding with work.

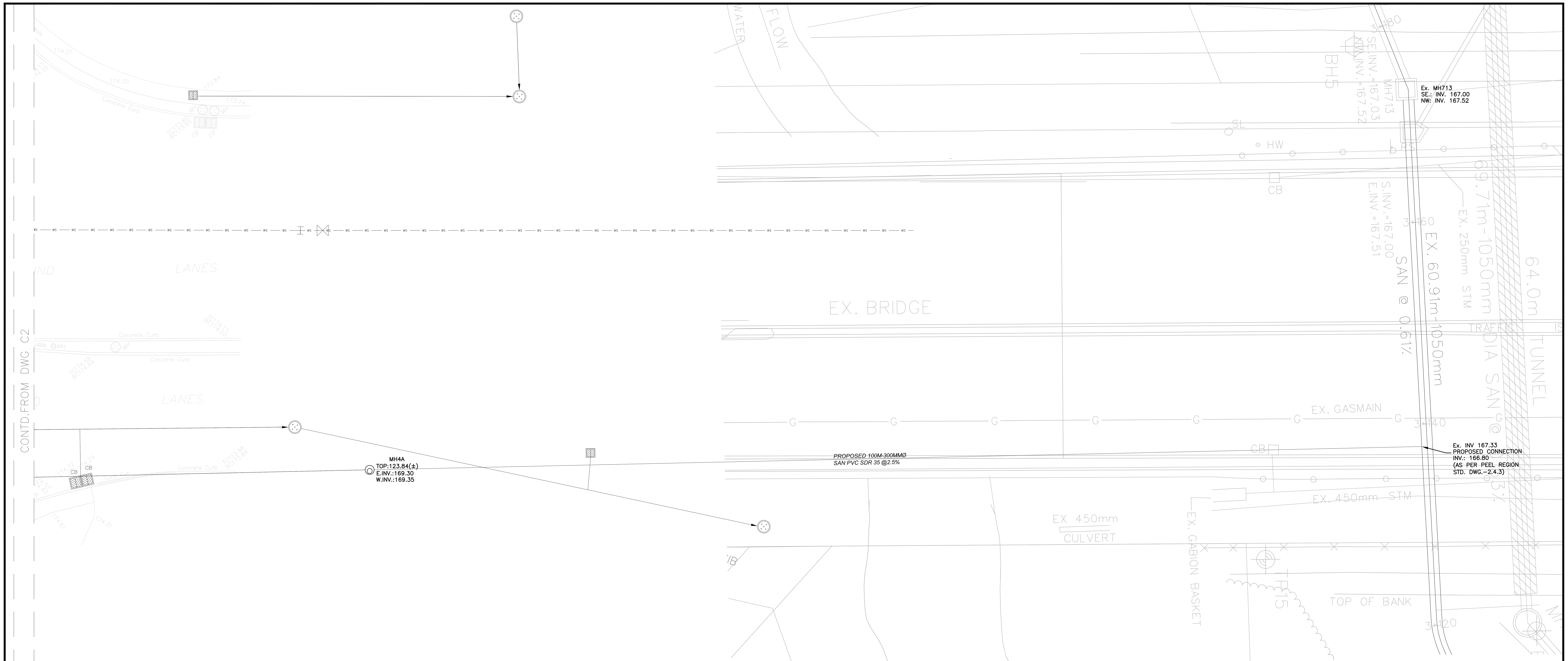
PROJECT:

PROPOSED GAS STATION 1480 DERRY ROAD EAST, MISSISSAUGA, ON.

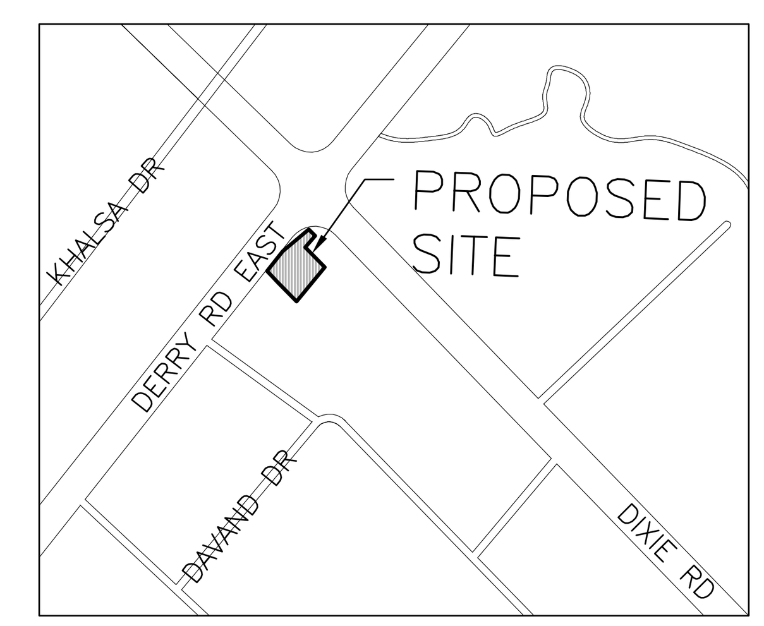
DRAWING TITLE:

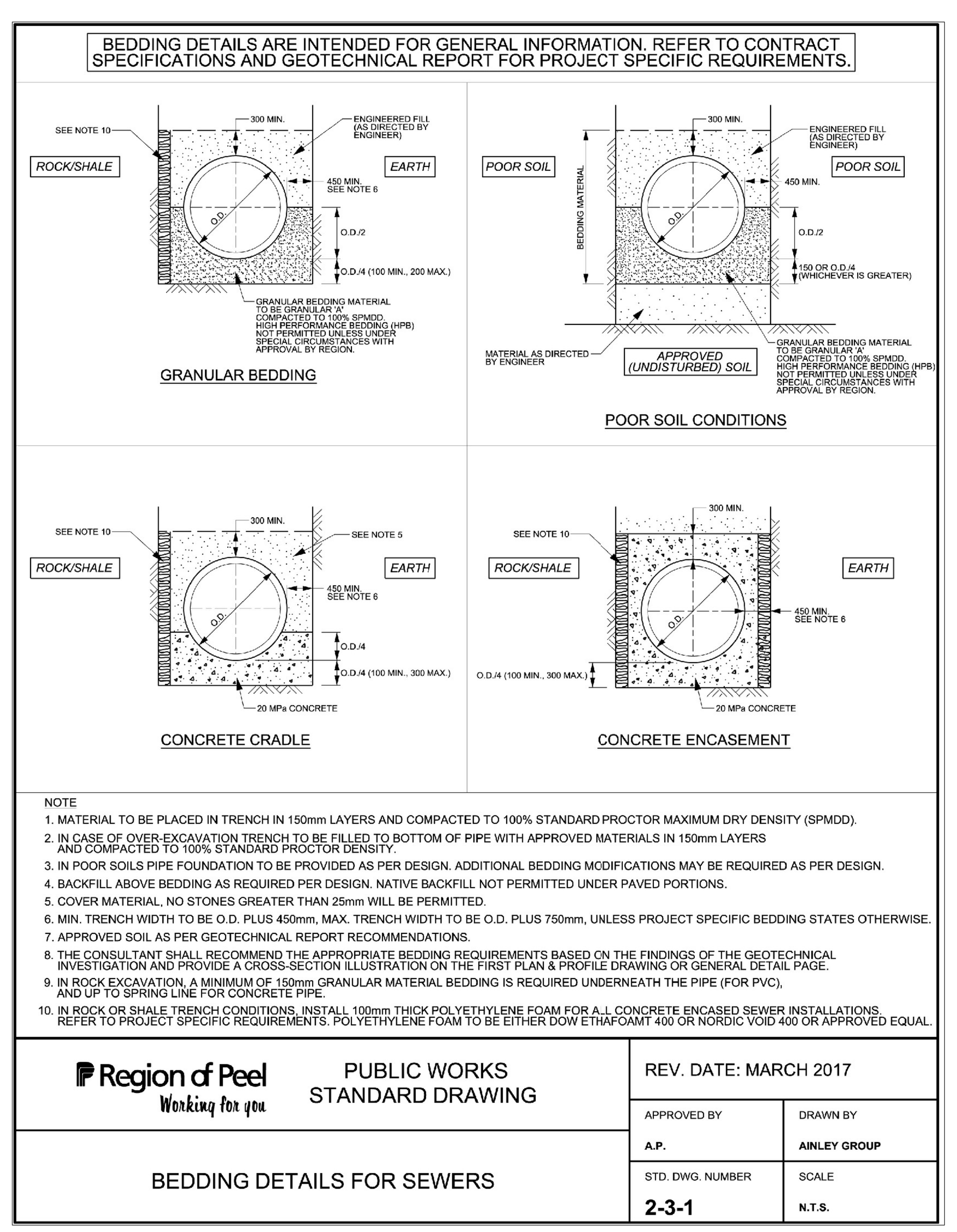
SITE SERVICING PLAN

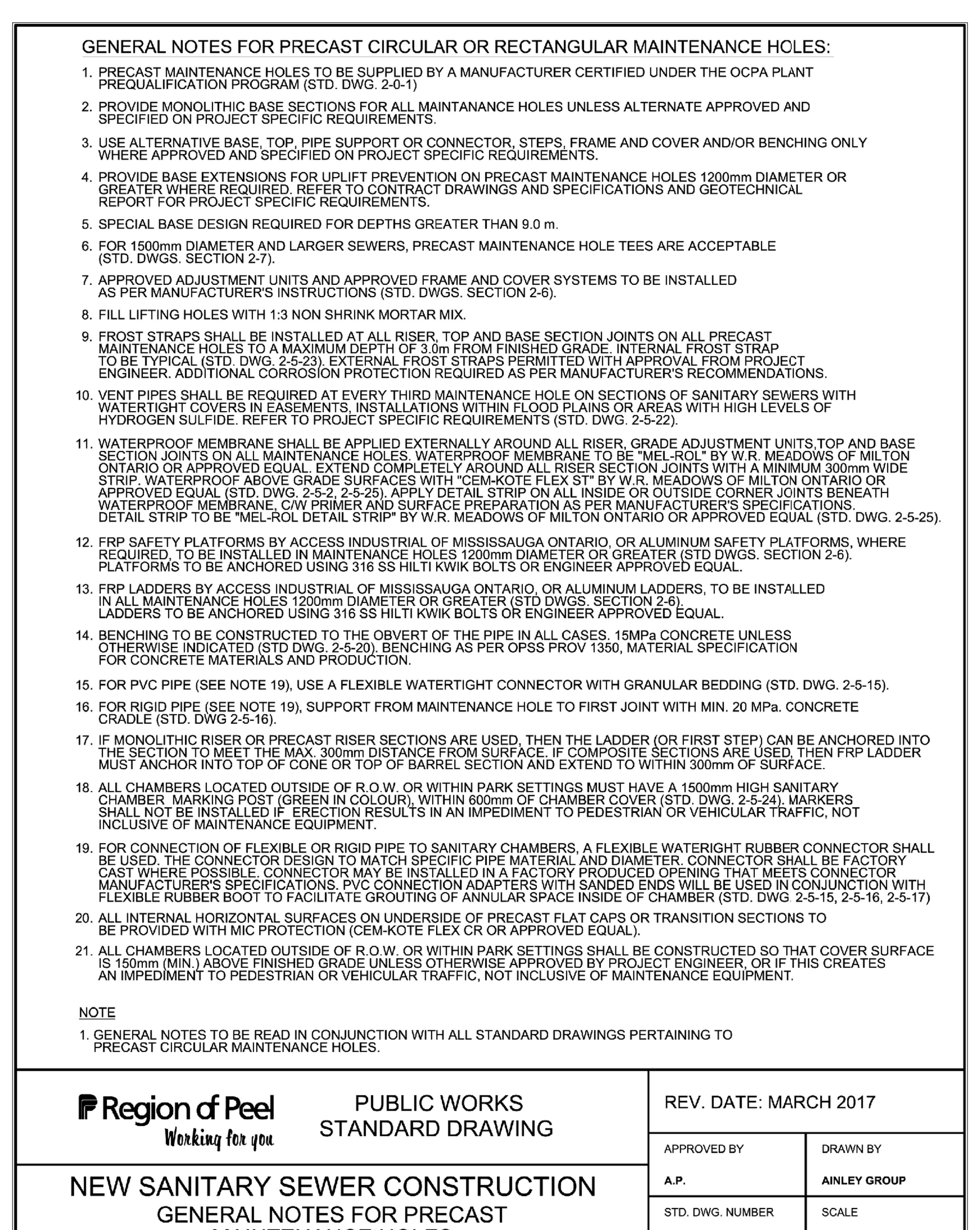
DRAWN BY: AZ	DATE: MAY 15 2018
CHECKED BY: AZ	SCALE: 1:200
PROJECT NO.: 16-90	DRAWING NO.: C2

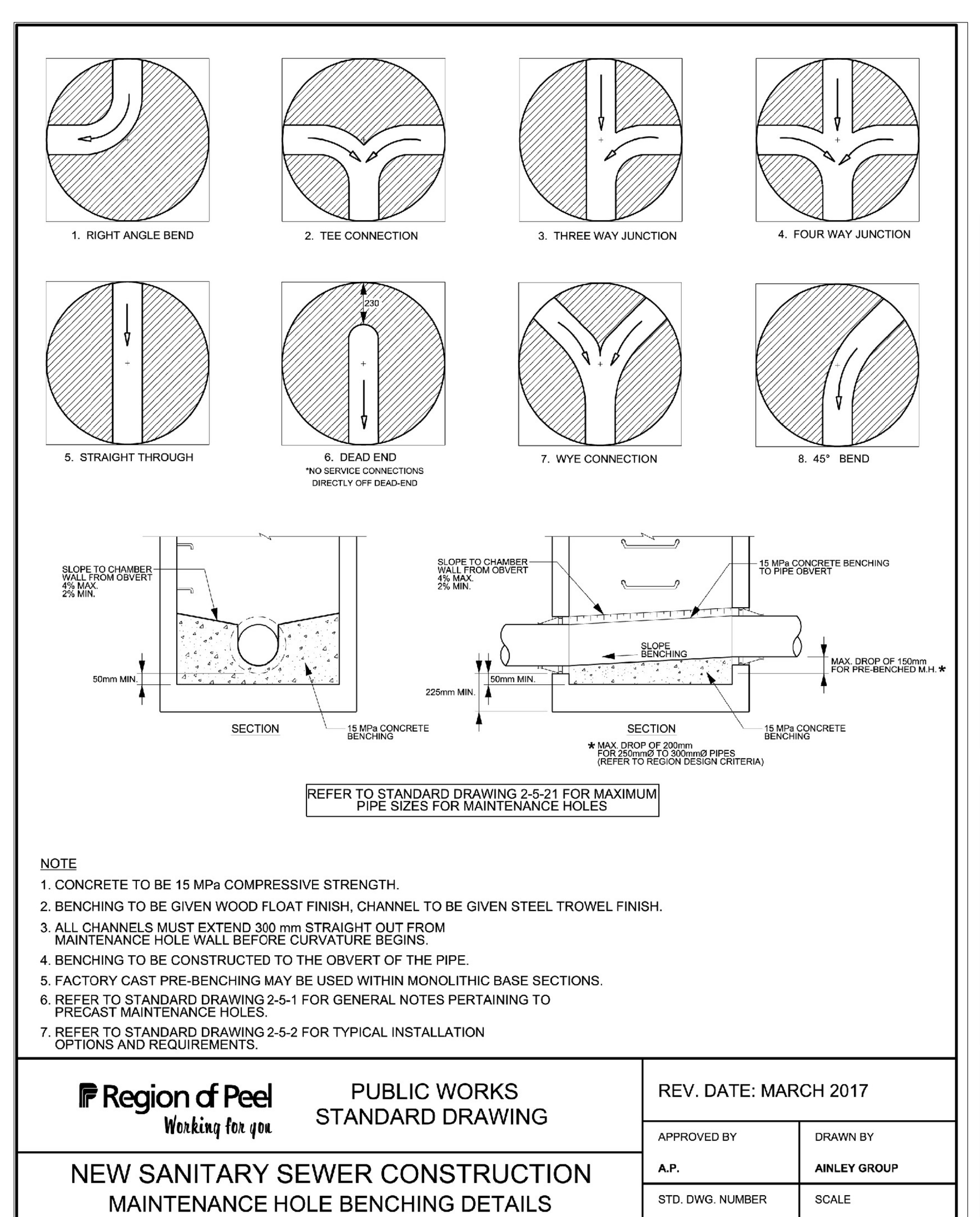


NOT FOR CONSTRUCTION









SURVEY INFORMATION TAKEN FROM:
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7003 STEELES AVE. WEST, UNIT12,
TORONTO, ON M9W 0A2
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EMAIL: jw@gtasurveying.ca
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APPLICANT:
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n ARCHITECTURE INC.
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FAX: 1-866-340-5265
EMAIL:nm@narchitecture.com

OWNER:
Vicky Aulakh
Prabh Aulakh Ltd.
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Email :aulakh.1@hotmail.com

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LEGEND

Symbol	Description
	PROPERTY LINE
	PROPOSED CONCRETE CURB
1M D/C	PROPOSED DEPRESSED CONCRETE CURB
	PROPOSED STORM SEWER
MH1	PROPOSED STORM MANHOLE
	PROPOSED CATCH BASIN MANHOLE
CB	PROPOSED CATCH BASIN
MH1A	PROPOSED SANITARY MANHOLE
EX.CB	EXISTING CATCH BASIN
	EXISTING FIRE HYDRANT
	BARRIER FREE PARKING
	MAIN ENTRANCE
	OVERHEAD DOOR
U/P	UTILITY POLE
	EXISTING TREE
A.W.	ARIAL WIRE
	BARRIER CURB
	WATER VALVE
B.L.	BOLLARDS LINE
(M)	WATER METER LOCATION
(B)	BACK FLOW PREVENTER
(V)	WATER VALVE

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LICENSED PROFESSIONAL ENGINEER
A.S.ZIAUDDIN
100233432
11FEB.2020
PROVINCE OF ONTARIO

N
(GEODETIC NORTH)
PROJECT NORTH

No.	Date	Version	Dwn.
1.	11 FEB. 2020	ISSUED FOR SPA	AZ

Contractor must verify all job dimensions, drawings, details and specifications and report any discrepancies to designer before proceeding with work.

PROJECT:

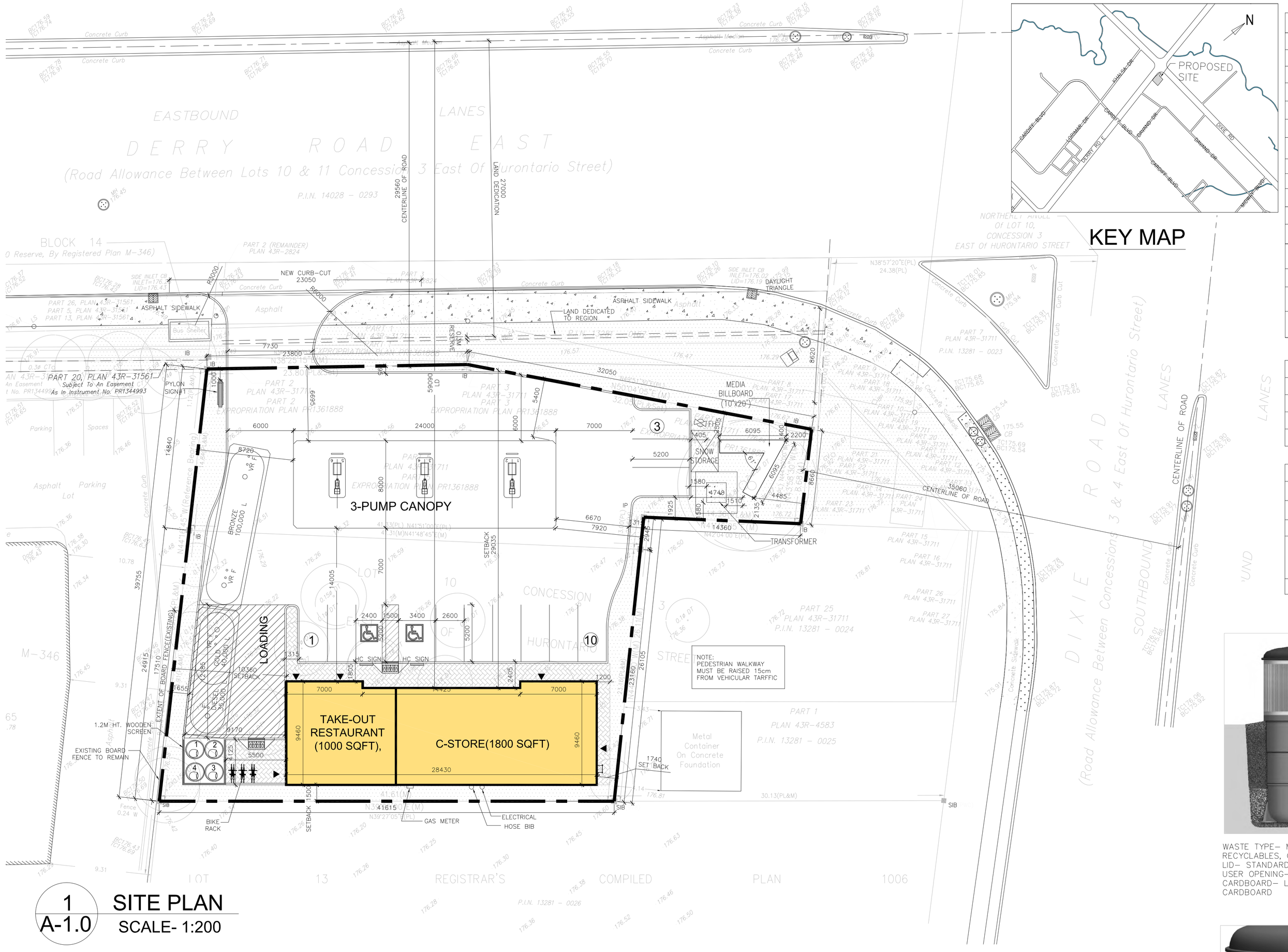
PROPOSED GAS STATION 1480 DERRY ROAD EAST, MISSISSAUGA, ON.

DRAWING TITLE:

SANITARY CONNECTION AND NOTES

DRAWN BY: AZ	DATE: MAY 15 2018
CHECKED BY: AZ	SCALE: 1:200
PROJECT NO.: 16-90	DRAWING NO.: C2A

Appendix C



1 A-1.0 SITE PLAN

SCALE- 1:200

KEY MAP

PROJECT STATISTICS

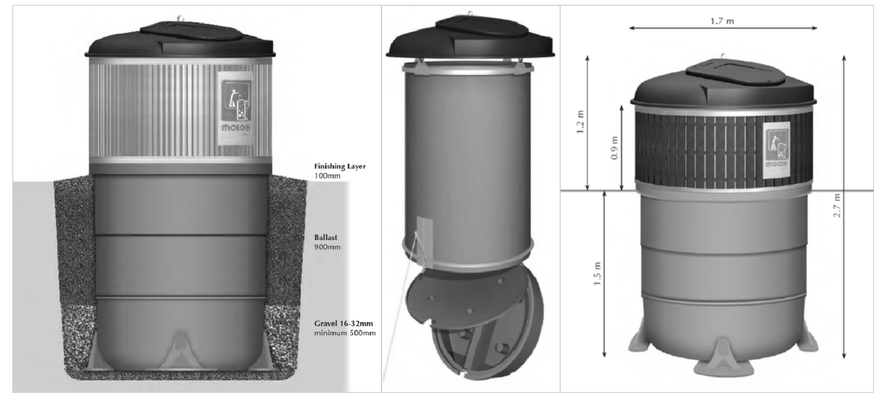
ADDRESS– 1480 DERRY ROAD EAST, MISSISSAUGA, ONTARIO		
ZONING – D, TABLE BASED ON ZONE C5 STANDARDS		
	REQUIRED–MIN.	PROVIDED
MIN. LOT AREA	N/A	1762.70SQM. (0.43Acre)
MIN. LOT FRONTAGE	48.0M	55.57M
PROPOSED C–STORE	–	167.25 SQM.
PROPOSED TAKE OUT RESTAURANT	–	92.90 SQM.
MAX. GROSS FLOOR AREA (G.F.A.)		260.15 SQM.
LANDSCAPED AREA	N/A	287.51 SQM.(16.31%)
BUILDING COVERAGE		260.15 SQM.(14.75%)
MAX. BUILDING HEIGHT	6M	1 STOREY (5.9M)
PAVED AND ASPHALT AREA		1215.04 (68.93%)
FLOOR SPACE INDEX : GROSS FLOOR AREA / LOT AREA = 260.15 / 1762.70 =		0.14 < 0.45
MAX INT SIDE YARD	4.5M	10.25 ON WEST, 1.55M ON EAST
MAX REAR YARD	4.5M	1.5M
MIN. BUFFER STRIP REQUIRED FROM THE STREET LINE	4.5M	1.5M
MIN. BUFFER STRIP REQUIRED FROM ADJACENT EMPLOYMENT USE	3.0M	1.5M

BUILDING SETBACK

	REQUIRED–MIN.	PROVIDED
FRONT YARD (NORTH)	4.5 M.	28.60 M.
REAR YARD (SOUTH)	4.5 M.	1.50 M.
SIDE YARD (WEST)	4.5 M.	10.25 M.
SIDE YARD (EAST)	4.5 M.	1.74 M.

PARKING CALCULATIONS

	REQUIRED–MIN.	PROVIDED
C–STORE (5.4/100 SQM.)	9	7
TAKE–OUT RESTAURANT (6/100 SQM.)	6	6
TOTAL	15	13
BARRIER FREE PARKING	2	2 (3400X5200MM) (2400X5200MM)
LOADING SPACE MIN.	1	1



WASTE TYPE– MIXED WASTE, PAPER, MIXED RECYCLABLES, CARDBOARD
LID– STANDARD
USER OPENING–FULL OPEN– 69 cm DIAMETER
CARDBOARD– LID MODIFIED WITH SLOT OPENING FOR CARDBOARD

LIFTING BAG– HARD–SIDED LIFTING CONTAINER

LID– STANDARD
USER OPENING–FULL OPEN– 69 cm DIAMETER

FRAMING– WOOD FRAMING

2 A-1.0 GARBAGE ENCLOSURES

MOLOK DEEP COLLECTION - M5000

LEGEND

- EXISTING BUILDING
- PROP. BUILDING
- LANDSCAPING
- PAINTED LINES NO PARKING
- ASPHALT DRIVEWAY
- CONCRETE STAMP
- CONCRETE WALKWAY 150 MM RAISED
- SIDEYARD SETBACK
- HANDICAP PARKING
- MAN DOOR
- OVERHEAD DOOR
- FIRE ROUTE
- CB CATCH BASIN
- PERMEABLE PAVING (ALL SIDEWALKS PERMEABLE)

All pedestrian walkways must be raised approximately 15cm (6 in.) from vehicular traffic to provide definition & protection for pedestrian.

I hereby certify that this drawing conforms in all respects to the site development plans as approved by the City of Mississauga under file number _____ Architect's or Engineer's Signature (if applicable) and Professional Seal

All proposed curbing within the municipal boulvard area for the site is to suit as follows:
" for Industrial, Commercial & condominium developments , all entrances to the site are to be in accordance with O.P.S.D. 350.0.10.
The site plan is to be read in conjunction with the "site stastics details & specifications" plan prepared by n Architecture Inc. & grading plan prepared by C.Ramanthan

Fire access route will be designed to support a load of not less than 11,363kg per axle and have a change in gradient of not more than 1 in 12.5 over a minimum distance of 15.0m.
" fire route will be designed as per by law- 1036-81 as amended

Note: If the final course of asphalt paving is delayed , install a temporary lift of asphalt and ramps or curb cuts to provide barrier free access.

Only shielded exterior lighting fixtures will be used except as required for compliance with the Ontario Building code and/or recommendations of the Illuminating Engineering Society of North America (IESNA) lighting handbook for uses and/or activities.

It is recommended that the applicant contact this Department to determine our position on the variances.

- "The City Of Mississauga requires that all working drawings submitted to the Building Division as part of an application for the issuance of a building permit shall be certified by the architect or engineer as being in conformity with the site development plan as approved by the City Of Mississauga."
- "All roof top mechanical units shall be screened from view by the applicant."
- "All Exterior lighting will be directed onto the site and will not infringe upon the adjacent properties."
- Only "shielded" lighting fixtures are permitted.
- The Owner covenants and agrees to install "shielded" lighting fixtures on the subject lands.
- "The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions."

The applicant is responsible for ensuring that tree protection hoarding is maintained throughout all phases of demolition and construction in the location and condition as approved by the Planning and Building Department. No materials (building materials, soil, etc.) may be stockpiled within the area of hoarding failure to maintain the hoarding as originally approved or the storage of materials within the hoarding will be cause for the Letter of Credit to be held for two (2) years following completion of all site works. Hoarding must be prior to the removal of any tree hoarding from the site.

SURVEY INFORMATION TAKEN FROM:
GREATER TORONTO ACRES SURVEYING INC.
7003 STEELES AVE. WEST, UNIT12, TORONTO ON M9W 0A2
TEL: (416) 679–0572
EMAIL: jw@gtasurveying.ca
PROJECT: 17208

APPLICANT:
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n ARCHITECTURE INC.
9120 LESLIE STREET,SUITE–208,
RICHMOND HILL, ONTARIO, L4B 3J9
TEL: 416–303–4821
FAX: 1–866–340–5265
EMAIL: nm@narchitecture.com

OWNER:
Vicky Aulakh(Gurwinder Singh Aulakh)
Prabh Aulakh Ltd.
1480 Derry Rd E, Mississauga, ON.
Email : aulakh.1@hotmail.com

MUNICIPAL ADDRESS & LEGAL DESCRIPTION:
1480 Derry Road East, Mississauga, ON.
Part of LOT 10, CONCESSION 3 EAST OF HURONTARIO STREET, 43R31711,PTS 5, 6 (Geographic Township Of Toronto), CITY of MISSISSUAGA, Regional Municipality Of Peel

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www.narchitecture.com

29 JAN.2020

N (GEODETIC NORTH) PROJECT NORTH

1st FEB. 2020 ISSUED FOR ZBA
NOT FOR CONSTRUCTION

No.	Date	Version	Dwn.
1.	21 NOV. 2019	ISSUED FOR ZBA	MG

PROJECT:

PROPOSED GAS STATION 1480 DERRY ROAD EAST, MISSISSAUGA, ON.

DRAWING TITLE:

SITE PLAN

DRAWN BY: MG	DATE: 21 NOV. 2019
CHECKED BY: NM	SCALE: AS NOTED
PROJECT NO.: **16-90**	DRAWING NO.: A-1.0

PROJECT	Gas Station
CONSULTANT	**n Architecture Inc.**
PROJECT NO.	n 1690

CITY OF MISSISSAUGA

DESIGN CHART S1: SANITARY SEWER DESIGN SHEET

AREA (Land Use Type)	UPSTREAM MH	DOWNSTREAM MH	FLOW		TOTAL AREA	DESIGN FLOW		CUM. FLOW	PIPE							
			Area (ha.)	AVG. FLOW (L/s)	(ha.)	INFILTRATION FLOW (L/s)	TOTAL FLOW (L/s)	DESIGN FLOW (L/s)	LENGTH	SIZE	GRADE	CAP.	(DES.)CAP. (%)	EXTR. CAP. (%)	DES. VEL.FULL	EXTR. VEL. FULL
1480 (Commercial)	***BUILDING PLUG***	***SAN MH1A***	0.170	13.00	0.170	0.034	13.03	**13.03**	*9.0*	*300*	*2.50*	152.9	9%	0%	0.98	2.19
	SAN MH1A	*SAN MH2A*						**13.03**	*18.5*	*300*	*0.50*	68.4	19%			
	SAN MH2A	SAN MH3A						**13.03**	*14.5*	*300*	*1.50*	118.4	11%			
	SAN MH 3A	SAN MH4A						**13.03**	*119.0*	*300*	*2.50*	152.9	9%			
	SAN MH4A	Ex Pipe						**13.03**	*100.0*	*300*	*2.50*	152.9	9%			

File#:

TABLE B2: Fire Flow C **FIRE FLOW CALCULATION as per**
FIRE UNDERWRITERS SURVEY (1999)

PROJECT: 1480 Derry Road East
City of Mississauga, ON

1. Fire Flow Equation

$$F = 220\,C\sqrt{A}$$

where F is the required fire flow [LPM]
C is the coefficient determined by type of construction [unitless]
A is the total protection area [sq.m]

2. Architecture Information

Type of Construction	Fire-resistive
Fire Rating, Vertical Separation	Inadequate
Sprinkler Provided (Y/N)	No
Total Floor Area [sq.m]	179
Coefficient, C [1]	0.8
Fire Flow, F [LPM]	2352
Fire Flow, F [LPM]	2000

Round to nearest 1000

3. Occupancy Reduction

Occupancy Adjustment	0.85
Fire Flow, F [LPM]	1700

Limited Combustible

4. Sprinkler Reduction

Sprinkler Reduction	0.00
Sprinkler Reduction [LPM]	0

5. Exposure Adjustment

North	0%
East	0%
South	0%
West	15%
Total	**15%**
Exposure Adjustment [LPM]	255

6. Required Fire Flow, Duration & Volume

Fire Flow, F [LPM]	1700
Sprinkler Reduction [LPM]	0
Exposure Adjustment [LPM]	255
Required Fire Flow [LPM]	1955
Required Fire Flow [LPM]	**2000**
Required Fire Flow [LPS]	**33**

Round to nearest 1000

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