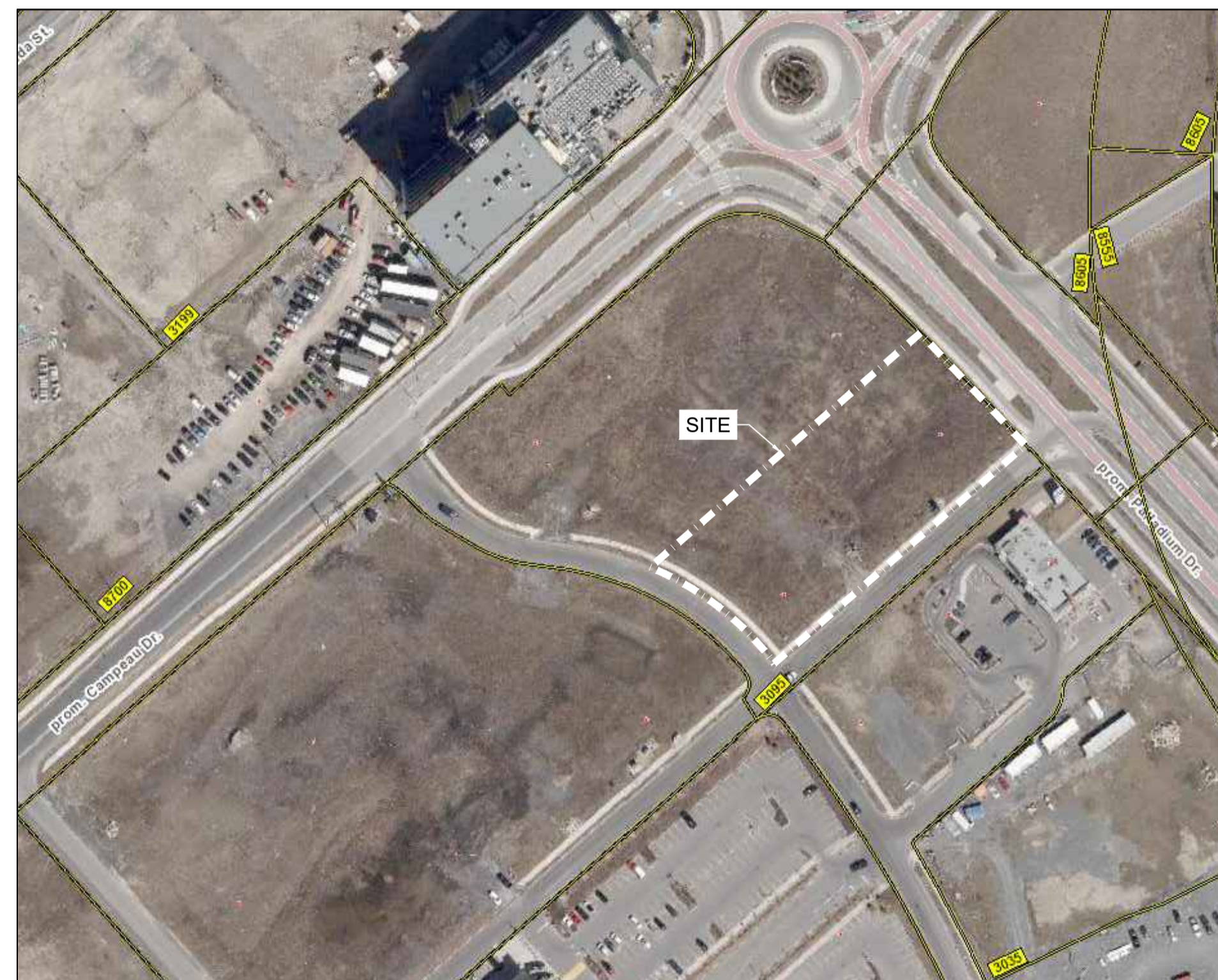


PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

REVISION 04



KEY PLAN (N.T.S.)

DRAWING INDEX	
TITLE PAGE	
GENERAL NOTES	C001
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SITE DEVELOPMENT PLAN	C201
GRADING AND DRAINAGE PLAN	C301
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PRE-DEVELOPMENT WATERSHED PLAN	C701
POST-DEVELOPMENT WATERSHED PLAN	C702
CONSTRUCTION DETAIL PLAN	C901



LRL

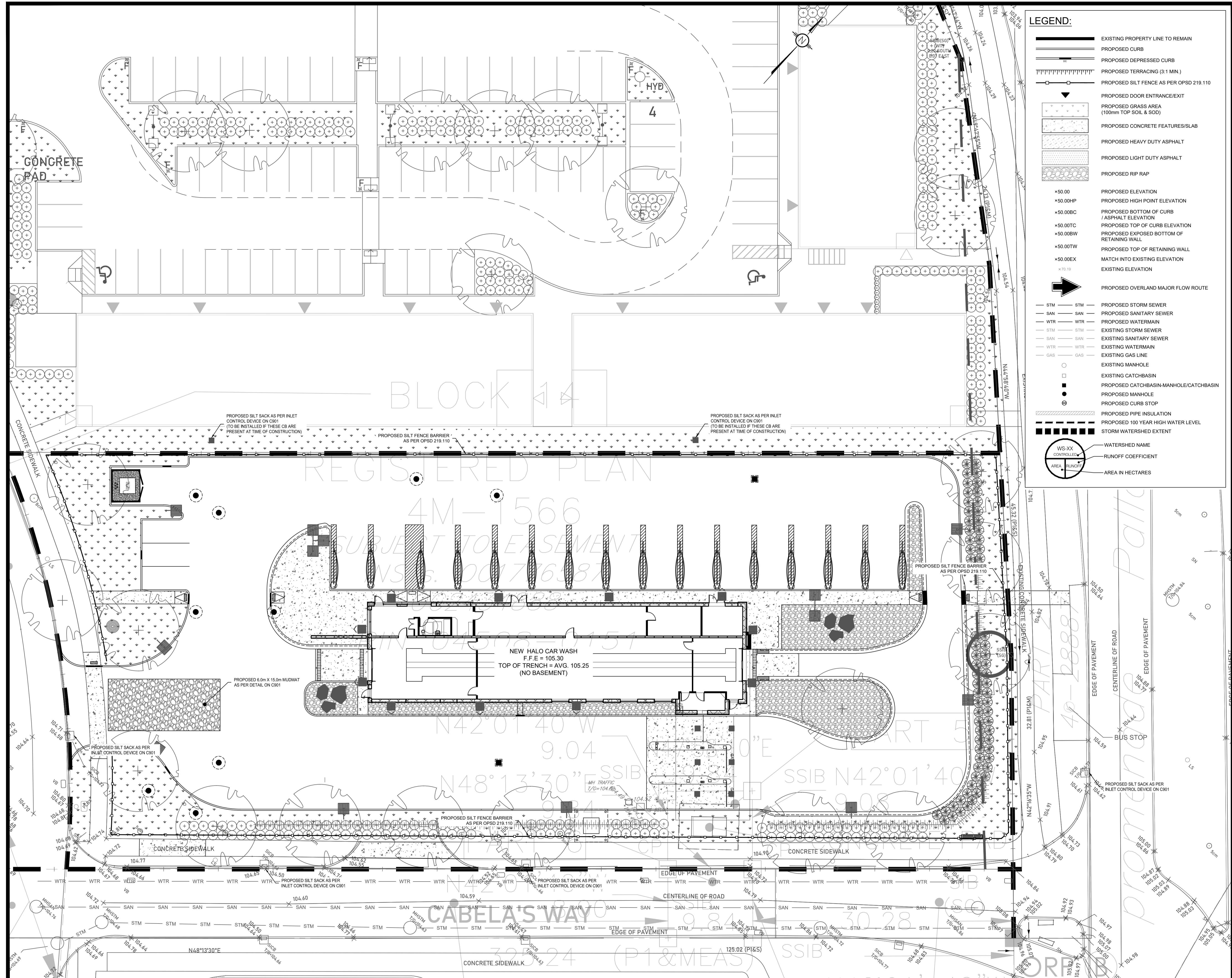
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5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

PROPOSED DEVELOPMENT - HALO CAR WASH
3095 PALLADIUM DRIVE, KANATA (ON)
REV.04 - RE-ISSUED FOR APPROVAL - MARCH 4th, 2024
LRL PROJECT no: 230273



NOT AUTHENTIC UNLESS SIGNED AND DATED



LEGEND:

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SCALE: 1:200

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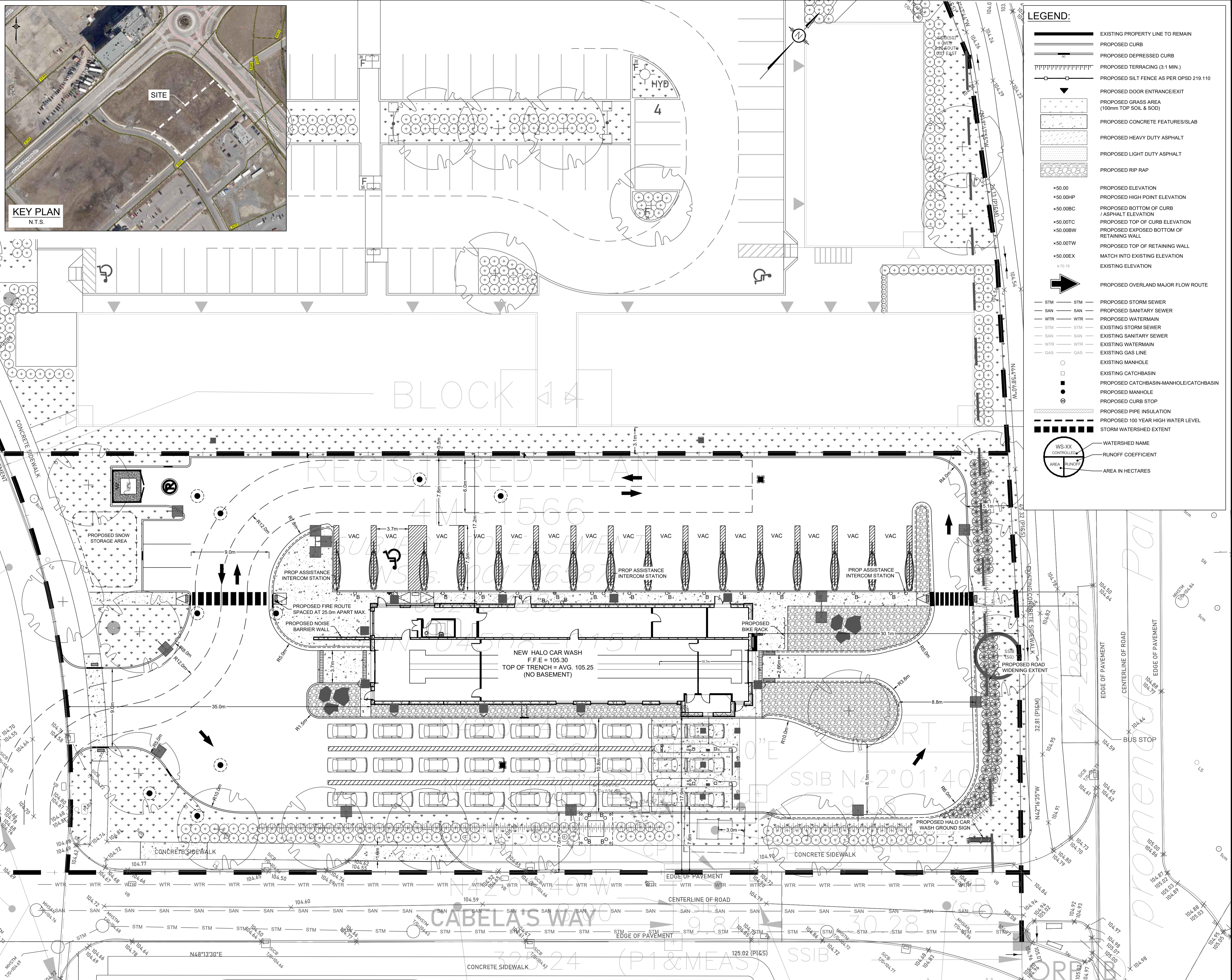
CLIENT: HALO CAR WASH
DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO: 230273
DATE: MAY 2023

C101



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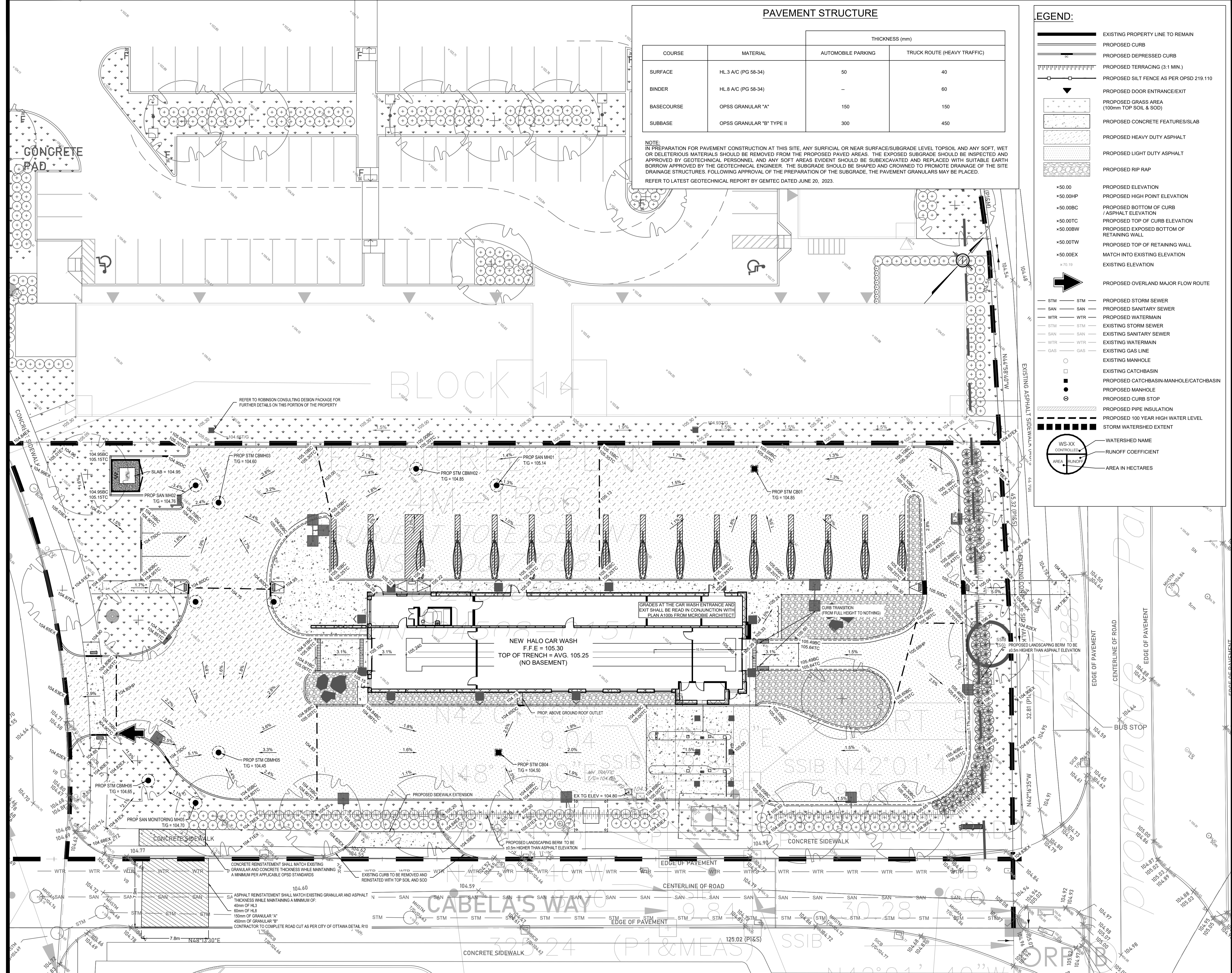
DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

DRAWING TITLE: SITE DEVELOPMENT PLAN

PROJECT NO: 230273 DATE: MAY 2023

C201



PAVEMENT STRUCTURE

COURSE	MATERIAL	THICKNESS (mm)	
		AUTOMOBILE PARKING	TRUCK ROUTE (HEAVY TRAFFIC)
SURFACE	HL.3 A/C (PG 58-34)	50	40
BINDER	HL.8 A/C (PG 58-34)	-	60
BASECOURSE	OPSS GRANULAR "A"	150	150
SUBBASE	OPSS GRANULAR "B" TYPE II	300	450

NOTE:
 IN PREPARATION FOR PAVEMENT CONSTRUCTION AT THIS SITE, ANY SURFICIAL OR NEAR SURFACE/SUBGRADE LEVEL TOPSOIL AND ANY SOFT, WET OR DELETERIOUS MATERIALS SHOULD BE REMOVED FROM THE PROPOSED PAVED AREAS. THE EXPOSED SUBGRADE SHOULD BE INSPECTED AND APPROVED BY GEOTECHNICAL PERSONNEL AND ANY SOFT AREAS EVIDENT SHOULD BE SUBCAVATED AND REPLACED WITH SUITABLE EARTH BORROW APPROVED BY THE GEOTECHNICAL ENGINEER. THE SUBGRADE SHOULD BE SHAPED AND CROWNED TO PROMOTE DRAINAGE OF THE SITE DRAINAGE STRUCTURES. FOLLOWING APPROVAL OF THE PREPARATION OF THE SUBGRADE, THE PAVEMENT GRANULARS MAY BE PLACED.
 REFER TO LATEST GEOTECHNICAL REPORT BY GEMTEC DATED JUNE 20, 2023.

EGEND:

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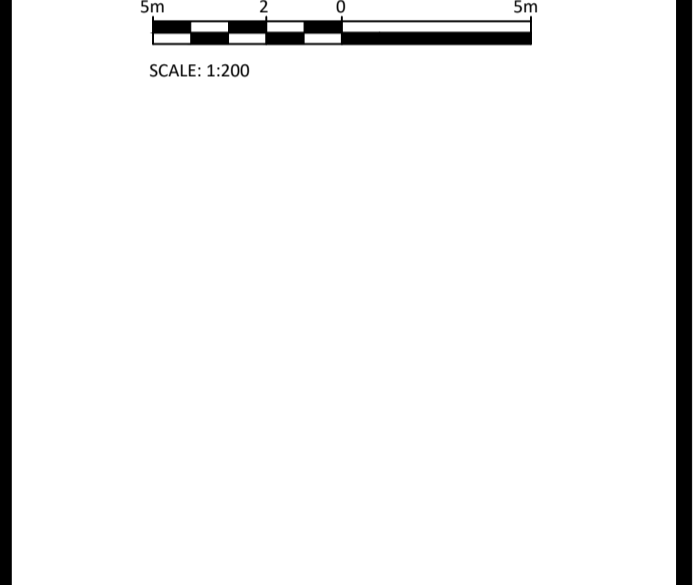
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CLIENT: HALO CAR WASH

DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

DRAWING TITLE: GRADING AND DRAINAGE PLAN

PROJECT NO: 230273
 DATE: MAY 2023
 C301

Crossing Table

Crossing #	WM	(Inv./Obv.)	STM	(Inv./Obv.)	SAN	(Inv./Obv.)	Depth Separation (m)
CR-01	102.06	Obv.	102.56	Inv.	N/A		0.50
CR-02	N/A		102.57	Inv.	101.55	Obv.	1.02
CR-03	102.24	Inv.	N/A		101.74	Obv.	0.50
CR-04	102.18	Obv.	102.68	Inv.	N/A		0.50
CR-05	N/A		102.69	Inv.	101.98	Obv.	0.71
CR-06	102.65	Inv.	N/A		102.10	Obv.	0.55
CR-07	N/A		102.83	Inv.	102.33	Obv.	0.50

WM crossing above sewer per City STD W25.2
WM crossing below sewer per City STD W25

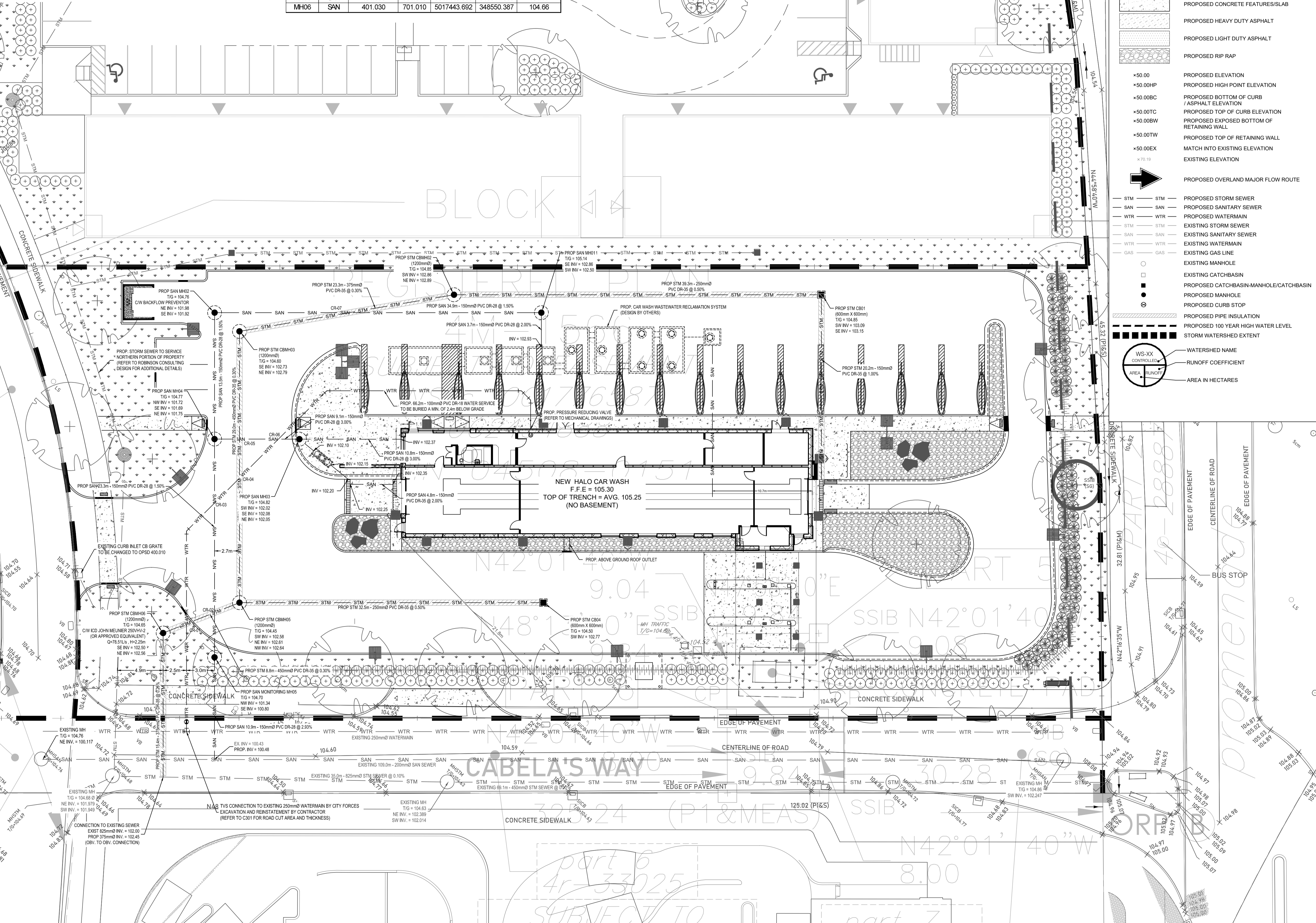
Structure Table

Structure	Network	Cover	Structure	Northing	Easting	T/G Elevation
CB01	STM	400.010	705.010	5017523.951	348565.647	104.85
CBMH02	STM	S28.1	701.010	5017497.792	348536.390	104.85
CBMH03	STM	S28.1	701.010	5017479.594	348521.894	104.60
CB04	STM	400.010	705.010	5017479.613	348565.441	104.50
CBMH05	STM	S28.1	701.010	5017457.969	348541.212	104.45
CBMH06	STM	S28.1	701.010	5017451.004	348537.831	104.65
MH01	SAN	401.030	701.010	5017502.586	348544.631	105.14
MH02	SAN	401.030	701.010	5017479.312	348518.577	104.76
MH03	SAN	401.030	701.010	5017475.273	348534.345	104.86
MH04	SAN	401.030	701.010	5017469.240	348527.574	104.77
MH05	SAN	401.030	701.010	5017449.956	348544.800	104.77
MH06	SAN	401.030	701.010	5017443.692	348550.387	104.66

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- PROPOSED OVERLAND MAJOR FLOW ROUTE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING GAS LINE
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
- PROPOSED MANHOLE
- PROPOSED CURB STOP
- PROPOSED PIPE INSULATION
- PROPOSED 100 YEAR HIGH WATER LEVEL
- STORM WATERSHED EXTENT
- WATERSHED NAME
- RUNOFF COEFFICIENT
- AREA IN HECTARES

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE THE SCOPE AND INTENT OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.



REVISIONS

No.	REVISIONS	BY	DATE
04	RE-ISSUED FOR APPROVAL	M.L.	MAR 04 2024
03	RE-ISSUED FOR APPROVAL	M.L.	FEB 15 2024
02	RE-ISSUED FOR APPROVAL	M.L.	NOV 13 2023
01	ISSUED FOR APPROVAL	M.L.	JUNE 16 2023

PROFESSIONAL ENGINEER

M. BASNET
100501996
PROVINCE OF ONTARIO

NOT AUTHENTIC UNLESS SIGNED AND DATED

LRL
ENGINEERING | INGENIERIE
5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

CLIENT: HALO CAR WASH

DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

DRAWING TITLE: SERVICING PLAN

PROJECT NO: 230273
DATE: MAY 2023

C401

BLOCK 14

LEGEND:

- EXISTING PROPERTY LINE TO REMAIN
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MIN.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED DOOR ENTRANCE/EXIST
- PROPOSED GRASS AREA (100mm TOP SOIL & SOD)
- PROPOSED CONCRETE FEATURES/SLAB
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED RIP RAP
- PROPOSED ELEVATION
- PROPOSED HIGH POINT ELEVATION
- PROPOSED BOTTOM OF CURB / ASPHALT ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED EXPOSED BOTTOM OF RETAINING WALL
- PROPOSED TOP OF RETAINING WALL
- MATCH INTO EXISTING ELEVATION
- EXISTING ELEVATION
- PROPOSED OVERLAND MAJOR FLOW ROUTE
- STM — STM — PROPOSED STORM SEWER
- SAN — SAN — PROPOSED SANITARY SEWER
- WTR — WTR — PROPOSED WATERMAIN
- STM — STM — EXISTING STORM SEWER
- SAN — SAN — EXISTING SANITARY SEWER
- WTR — WTR — EXISTING WATERMAIN
- GAS — GAS — EXISTING GAS LINE
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
- PROPOSED MANHOLE
- ⊙ PROPOSED CURB STOP
- ▨ PROPOSED PIPE INSULATION
- ▬ PROPOSED 100 YEAR HIGH WATER LEVEL
- ▬ STORM WATERSHED EXTENT
- WS-XX CONTROLLED
- AREA RUNOFF
- AREA IN HECTARES

USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL AUTHORITY AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL AUTHORITY AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL AUTHORITY.

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IN THE EVENT THE CLIENT, THE CLIENT'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE CLIENT IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY LRL ASSOCIATES LTD. (LRL) WITHOUT OBTAINING LRL'S PRIOR WRITTEN CONSENT, THE CLIENT SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE CLIENT AGREES TO WAIVE ANY CLAIM AGAINST LRL AND TO RELEASE LRL FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

IN ADDITION, THE CLIENT AGREES TO INCLUDE IN ANY CONTRACTS FOR CONSTRUCTION APPROPRIATE LANGUAGE THAT PROHIBITS THE CONTRACTOR OR ANY SUBCONTRACTORS OF ANY TIER FROM MAKING ANY CHANGES OR MODIFICATIONS TO LRL'S CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN APPROVAL OF LRL AND THAT FURTHER REQUIRES THE CONTRACTOR TO INDEMNIFY BOTH LRL AND THE CLIENT FROM ANY LIABILITY OR COST ARISING FROM SUCH CHANGES MADE WITHOUT SUCH PROPER AUTHORIZATION.

GENERAL NOTES:

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No.	REVISIONS	BY	DATE
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01	ISSUED FOR APPROVAL	M.L.	JUNE 16 2023



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CLIENT
HALO CAR WASH

DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

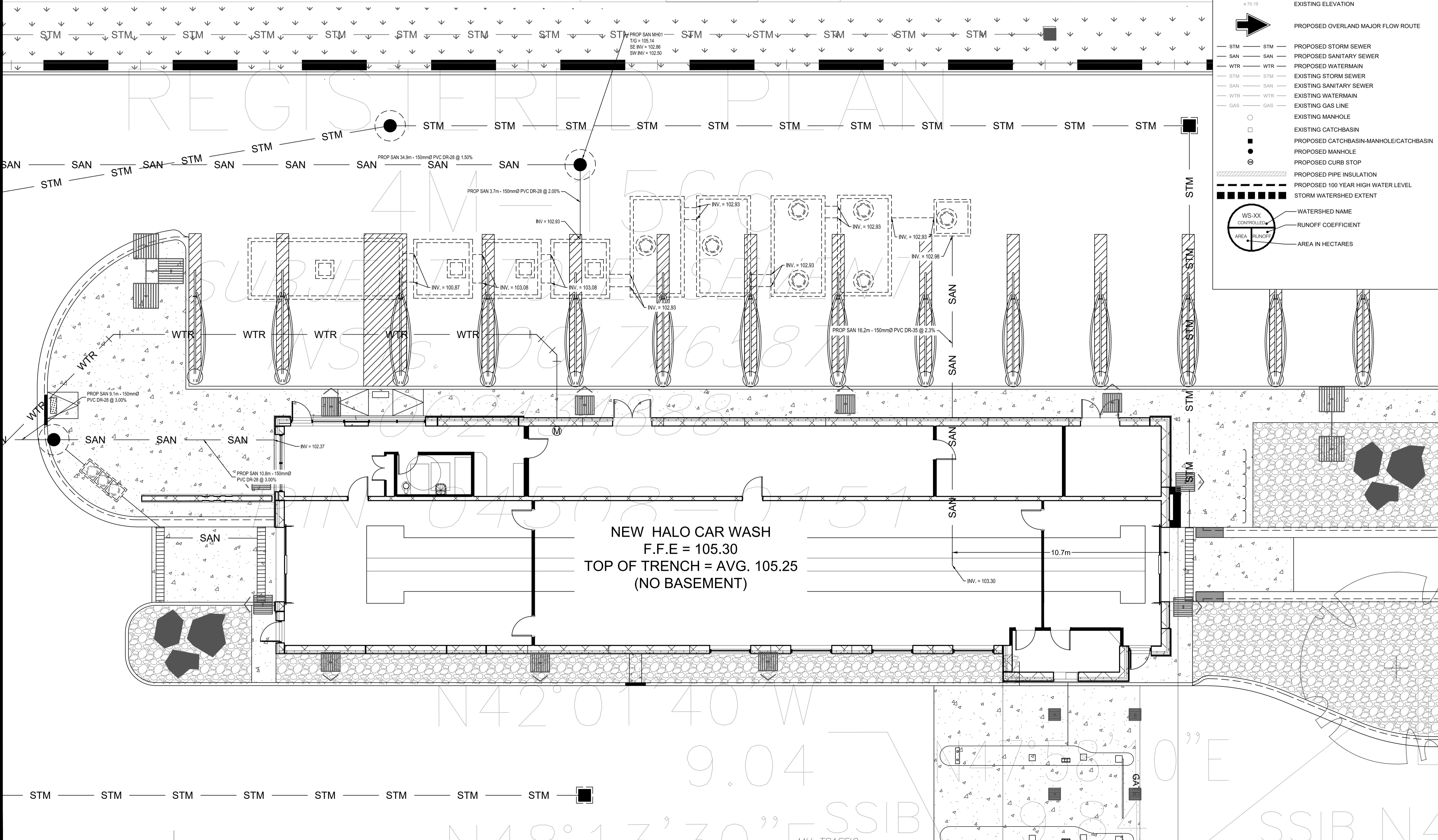
PROJECT
**PROPOSED DEVELOPMENT
HALO CAR WASH
3095 PALLADIUM DRIVE
KANATA, ON**

DRAWING TITLE
SERVICING PLAN

PROJECT NO.
230273

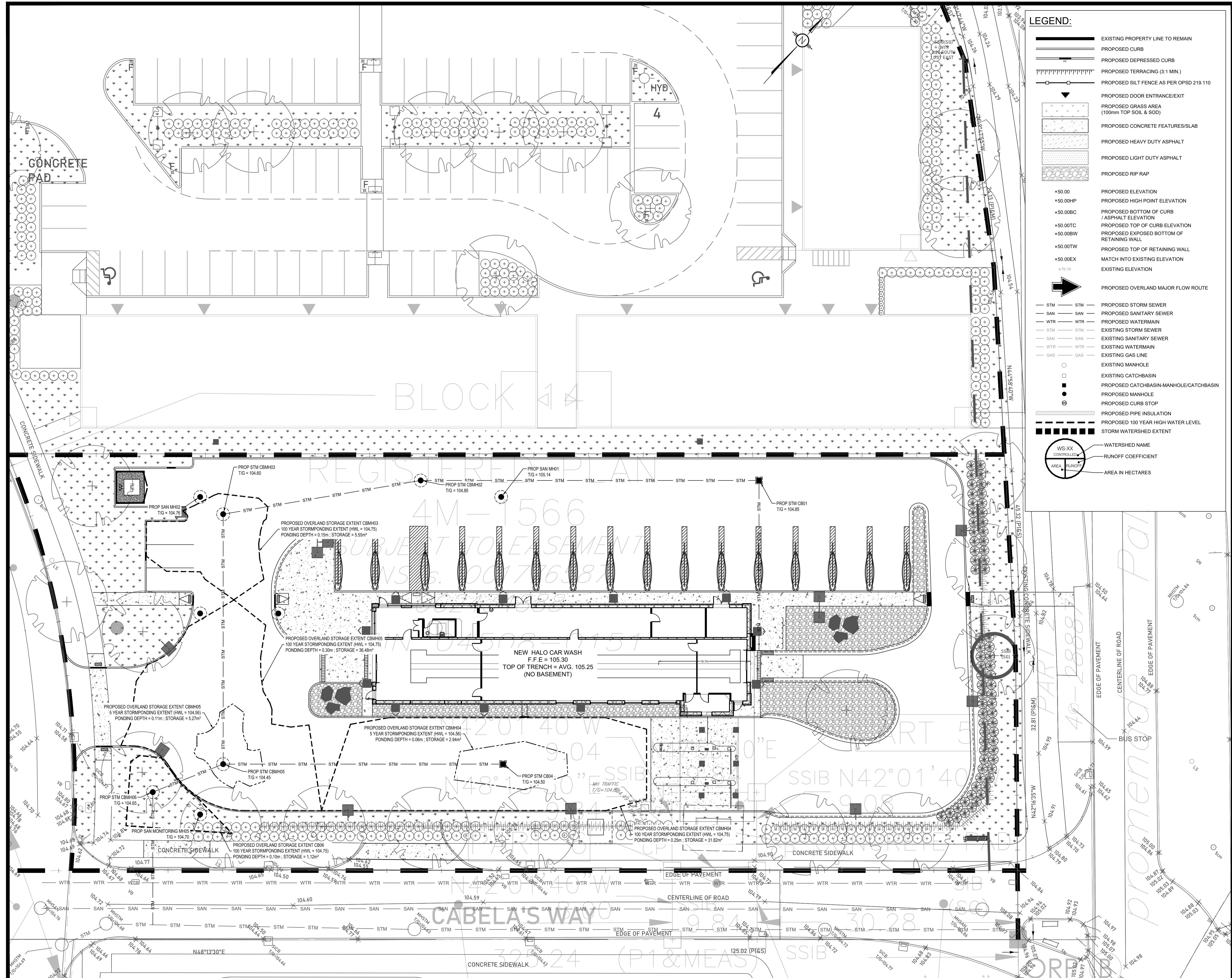
DATE
MAY 2023

C402



NEW HALO CAR WASH
F.F.E = 105.30
TOP OF TRENCH = AVG. 105.25
(NO BASEMENT)

N42°01'40" W
9.04
N49°17'30" E



LEGEND:

- EXISTING PROPERTY LINE TO REMAIN
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MIN.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED DOOR ENTRANCE/EXIT
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- PROPOSED LIGHT DUTY ASPHALT
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- PROPOSED TOP OF RETAINING WALL
- MATCH INTO EXISTING ELEVATION
- EXISTING ELEVATION
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- EXISTING WATERMAIN
- EXISTING GAS LINE
- EXISTING MANHOLE
- EXISTING CATCHBASIN
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- PROPOSED MANHOLE
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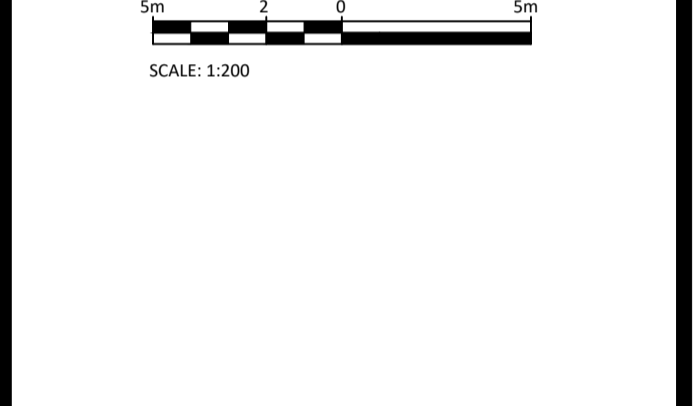
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02	RE-ISSUED FOR APPROVAL	M.L.	NOV 13 2023
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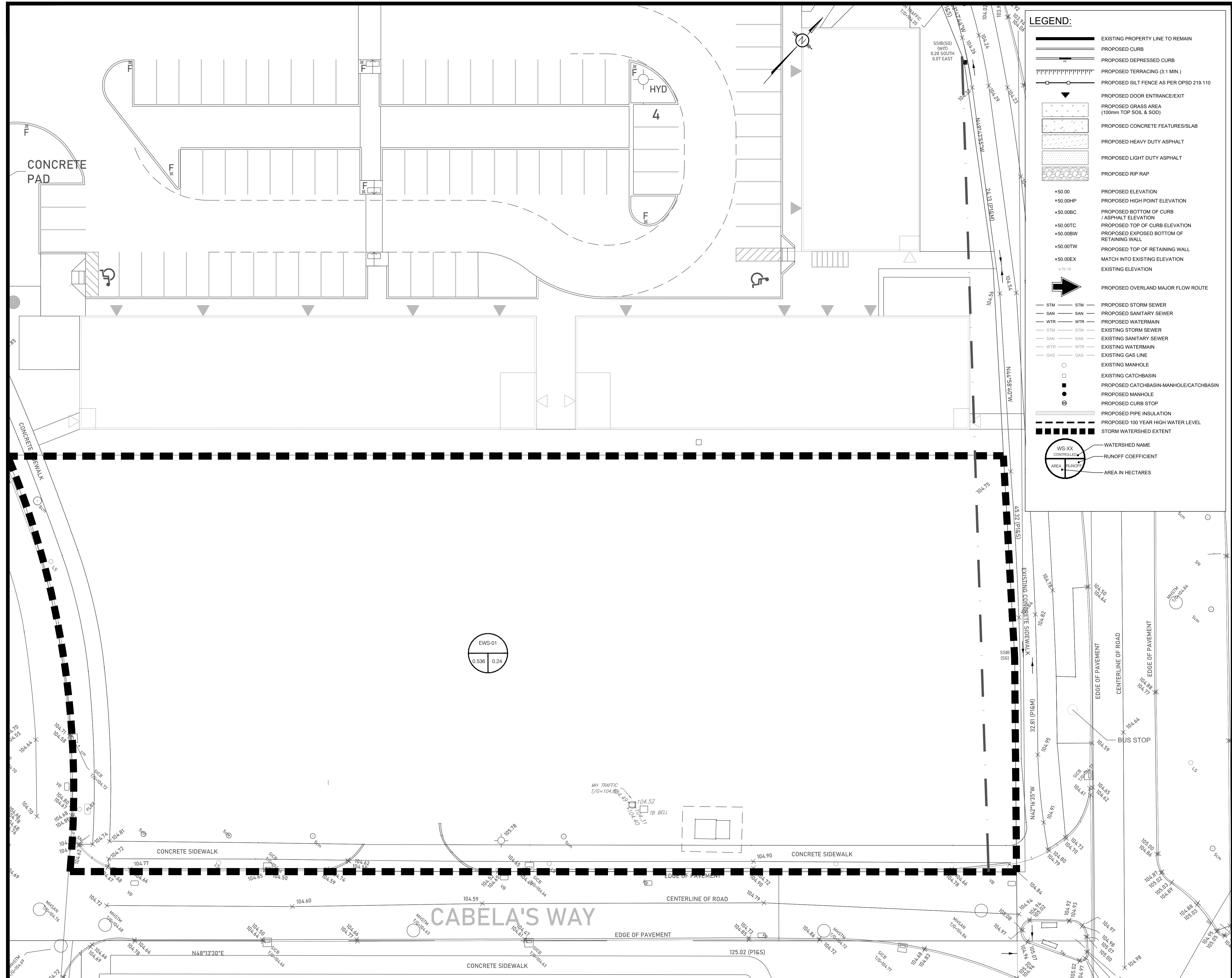
CLIENT: HALO CAR WASH

DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

DRAWING TITLE: STORMWATER MANAGEMENT PLAN

PROJECT NO: 230273
 DATE: MAY 2023
 C601



LEGEND:

- EXISTING PROPERTY LINE TO REMAIN
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MIN.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED DOOR ENTRANCE/EXIT
- PROPOSED GRASS AREA (100mm TOP SOIL & SOD)
- PROPOSED CONCRETE FEATURES/SLAB
- PROPOSED HEAVY DUTY ASPHALT
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- PROPOSED RIP RAP
- PROPOSED ELEVATION
- PROPOSED HIGH POINT ELEVATION
- PROPOSED BOTTOM OF CURB / ASPHALT ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED EXPOSED BOTTOM OF RETAINING WALL
- PROPOSED TOP OF RETAINING WALL
- MATCH INTO EXISTING ELEVATION
- EXISTING ELEVATION
- PROPOSED OVERLAND MAJOR FLOW ROUTE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING GAS LINE
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
- PROPOSED MANHOLE
- PROPOSED CURB STOP
- PROPOSED PIPE INSULATION
- PROPOSED 100 YEAR HIGH WATER LEVEL
- STORM WATERSHED EXTENT
- WATERSHED NAME
- RUNOFF COEFFICIENT
- AREA IN HECTARES

USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENTS, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

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UNAUTHORIZED CHANGES:

IN THE EVENT THE CLIENT, THE CLIENT'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE CLIENT IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY LRL ASSOCIATES LTD. (LRL) WITHOUT OBTAINING LRL'S PRIOR WRITTEN CONSENT, THE CLIENT SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE CLIENT AGREES TO WAIVE ANY CLAIM AGAINST LRL AND TO RELEASE LRL FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

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GENERAL NOTES:

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Scale: 1:200

No.	REVISIONS	BY	DATE
04	RE-ISSUED FOR APPROVAL	M.L.	MAR 04 2024
03	RE-ISSUED FOR APPROVAL	M.L.	FEB 15 2024
02	RE-ISSUED FOR APPROVAL	M.L.	NOV 13 2023
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www.lrl.ca | (613) 842-3434

CLIENT: HALO CAR WASH

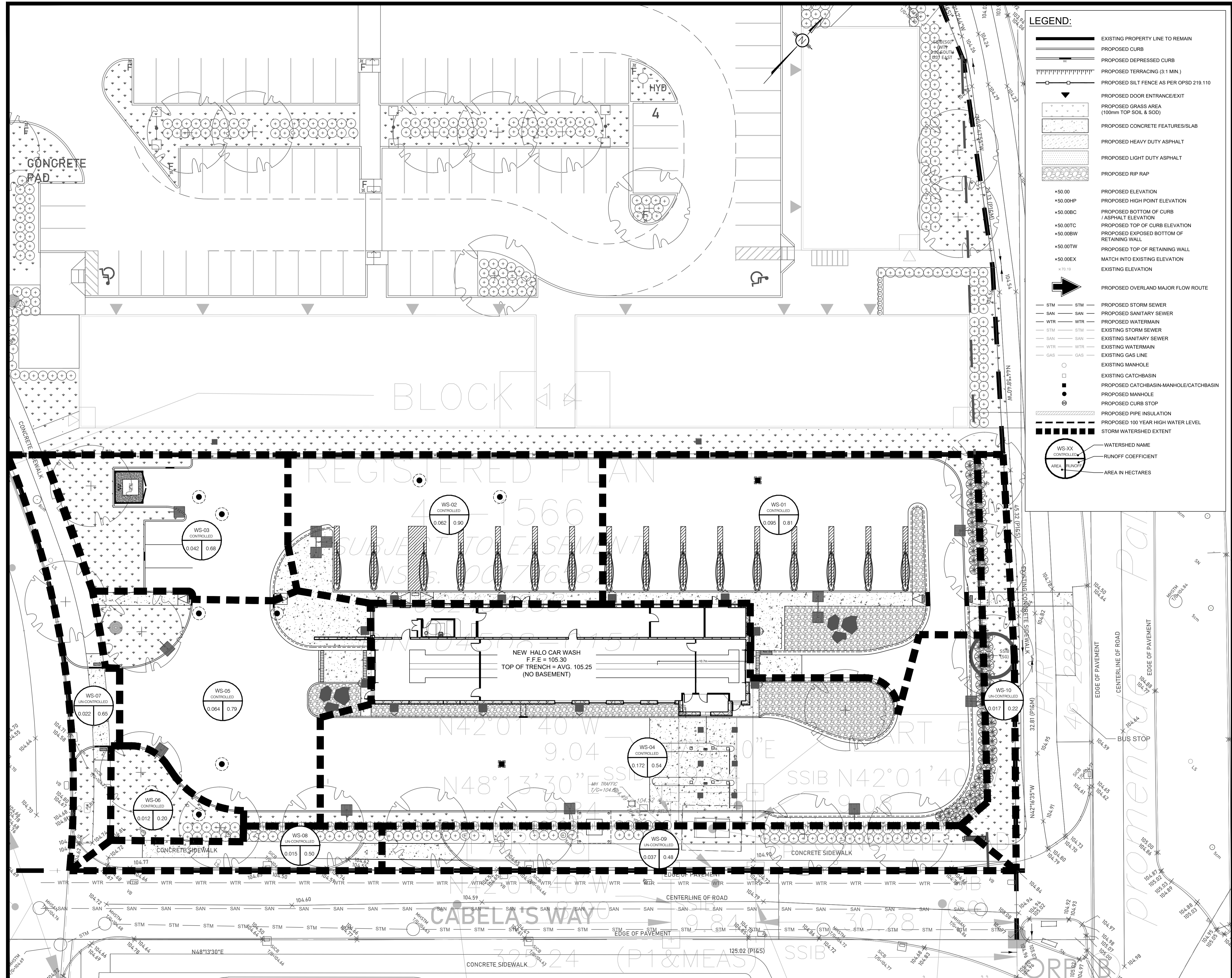
DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON

DRAWING TITLE: PRE-DEVELOPMENT WATERSHED PLAN

PROJECT NO: 230273
DATE: MAY 2023

C701



LEGEND:

- EXISTING PROPERTY LINE TO REMAIN
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MIN.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED DOOR ENTRANCE/EXIT
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IN ADDITION, THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LRL FROM ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND COST OF DEFENSE, ARISING FROM SUCH CHANGES.

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CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.

Scale: 1:200

No.	REVISIONS	BY	DATE
04	RE-ISSUED FOR APPROVAL	M.L.	MAR 04 2024
03	RE-ISSUED FOR APPROVAL	M.L.	FEB 15 2024
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01	ISSUED FOR APPROVAL	M.L.	JUNE 16 2023



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5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

CLIENT
HALO CAR WASH

DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

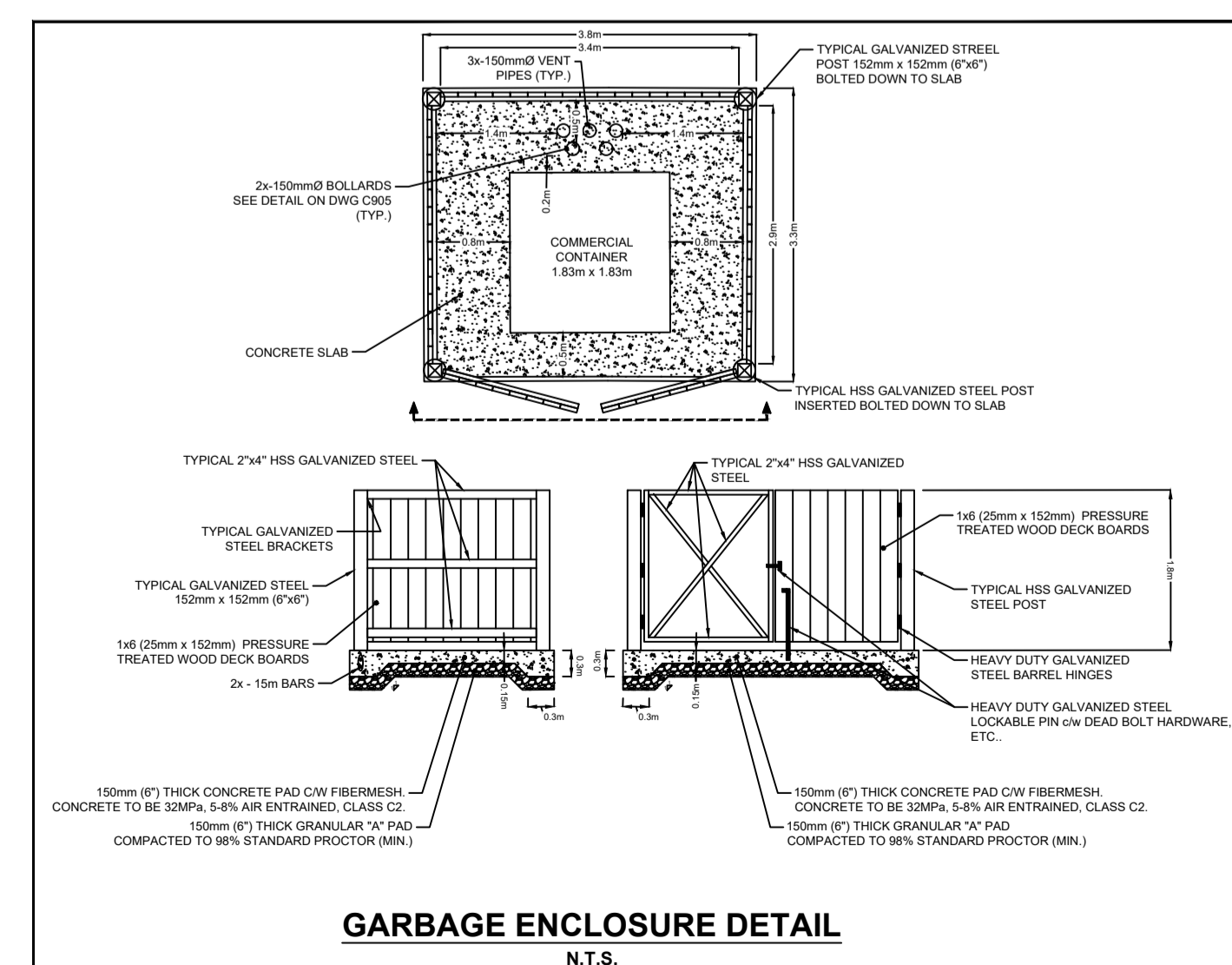
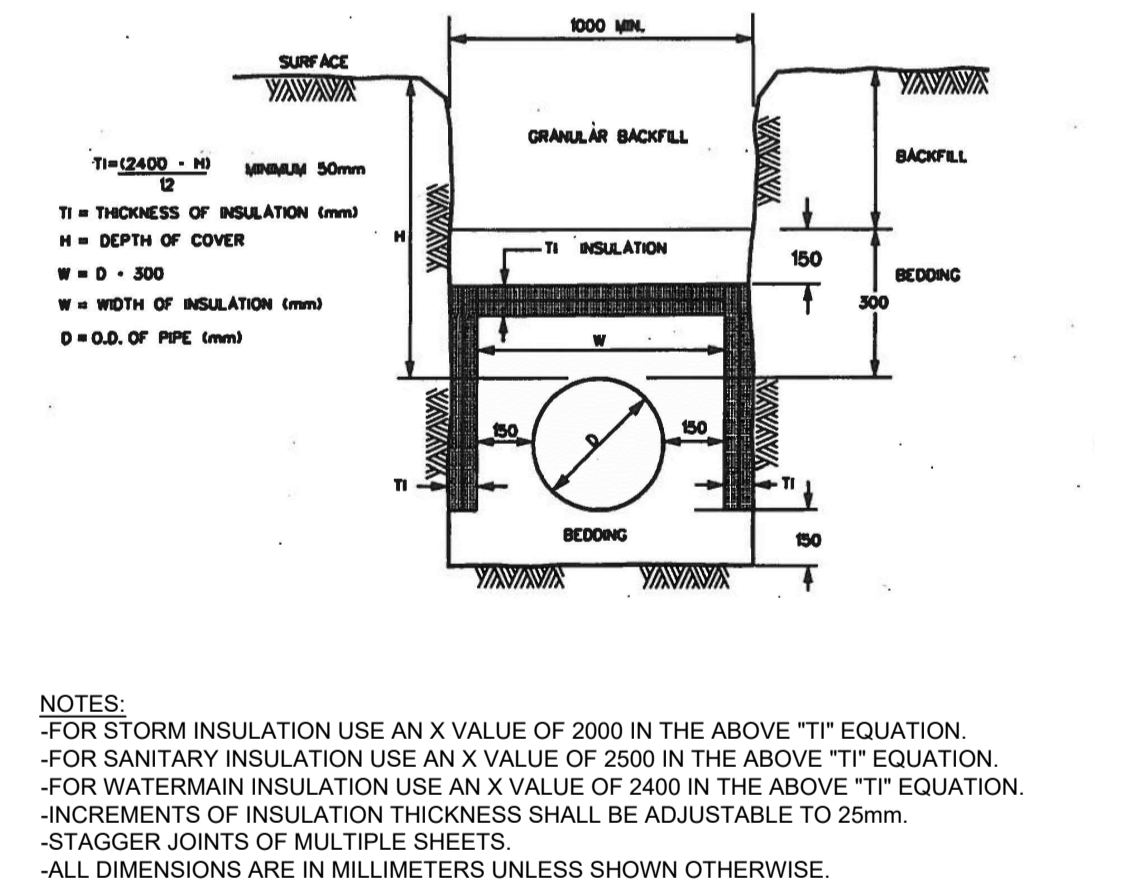
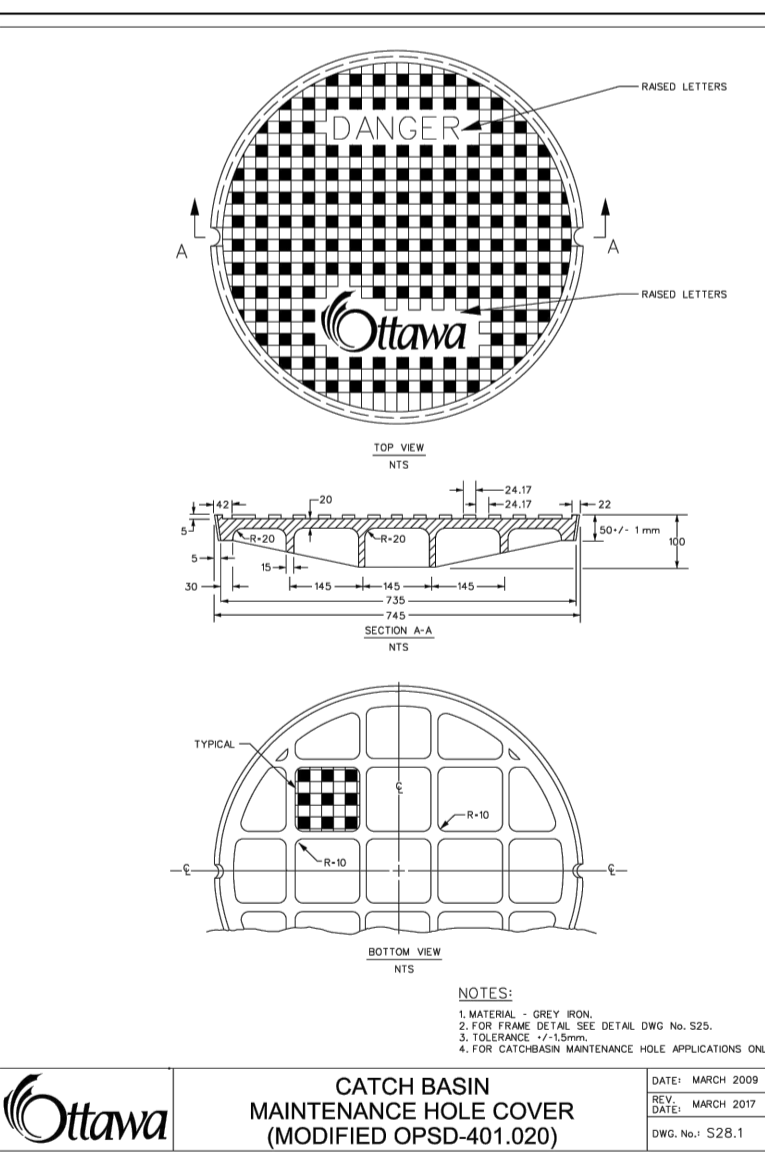
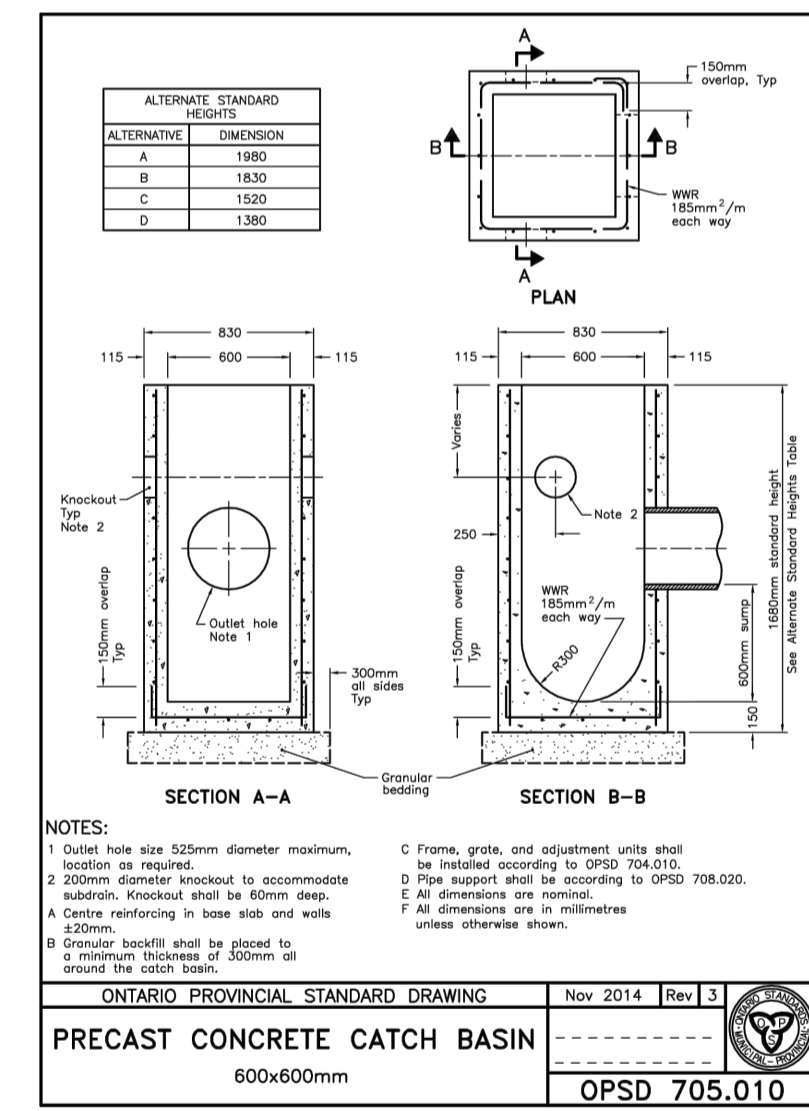
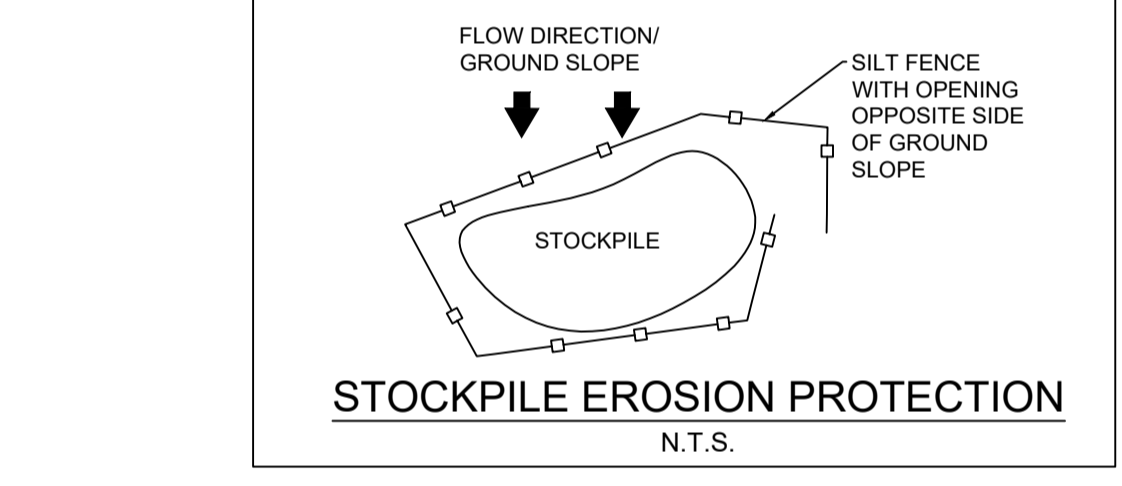
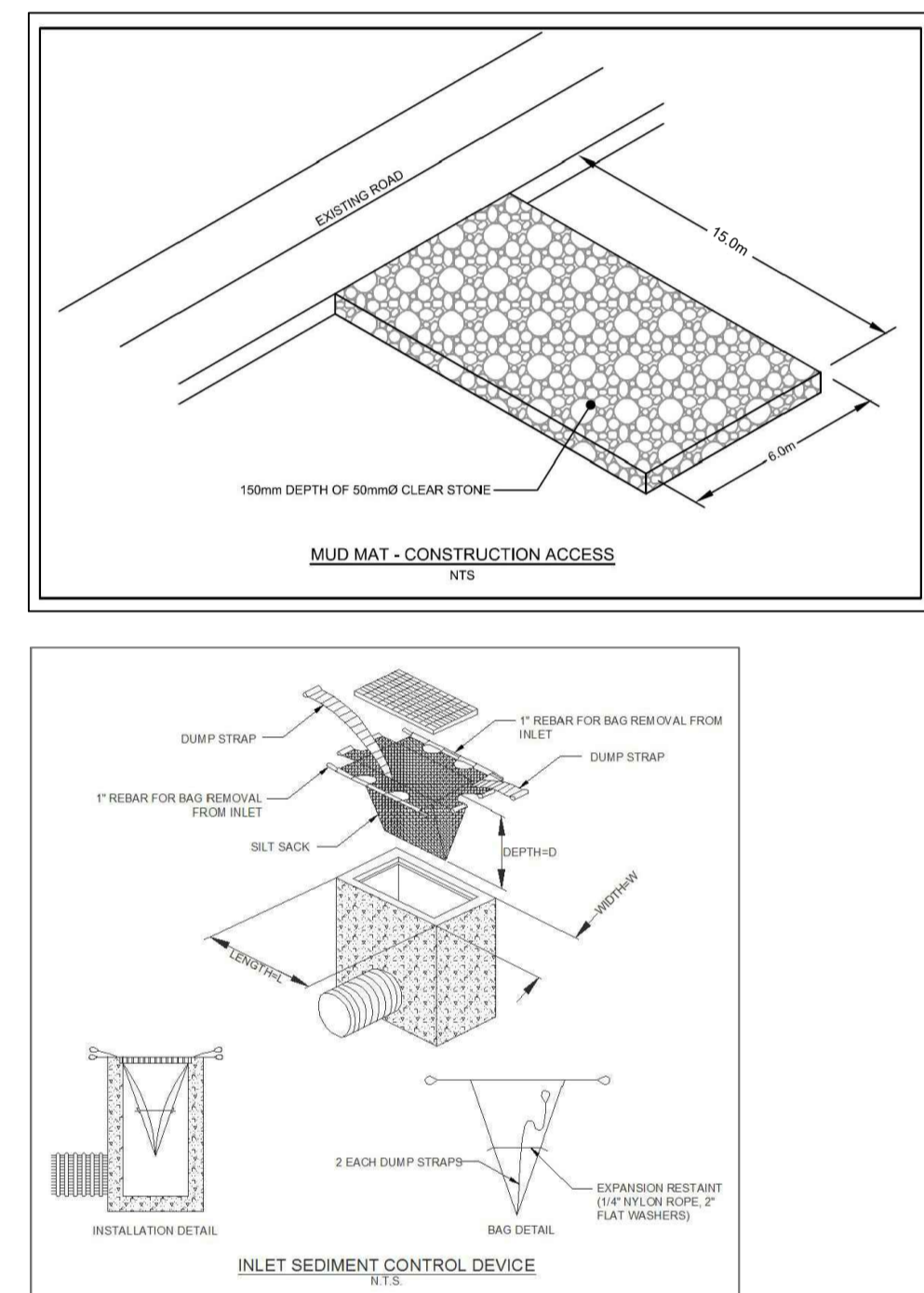
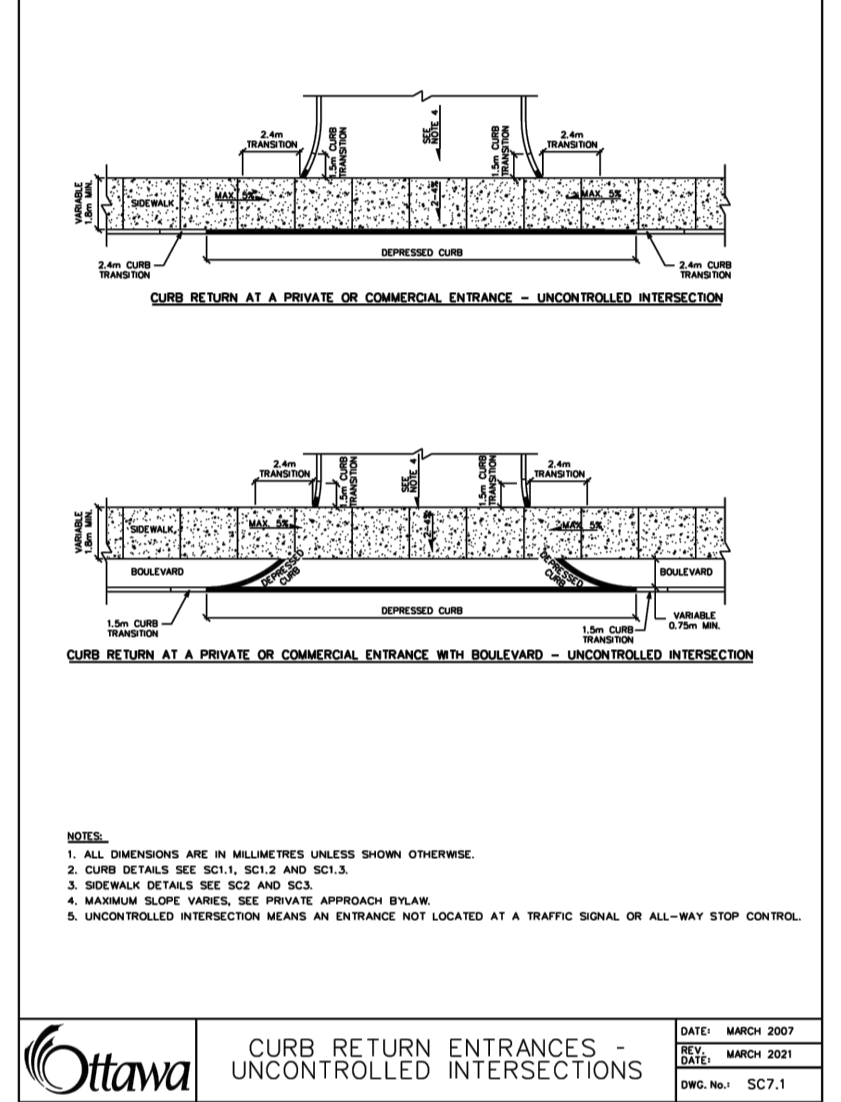
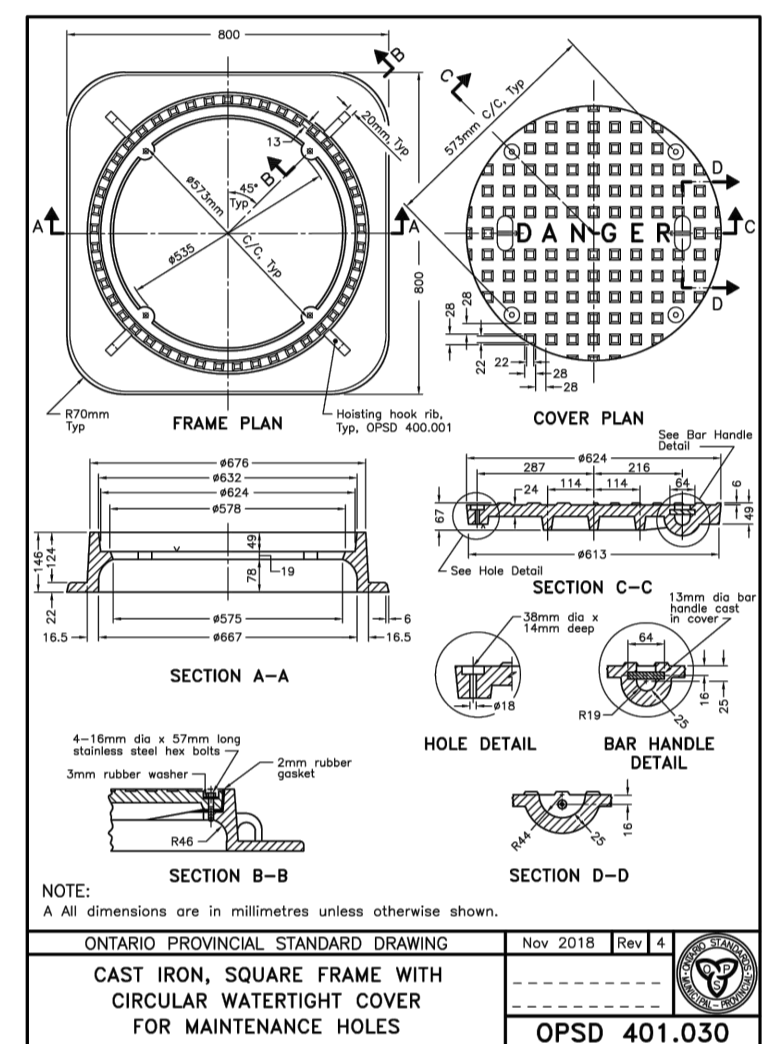
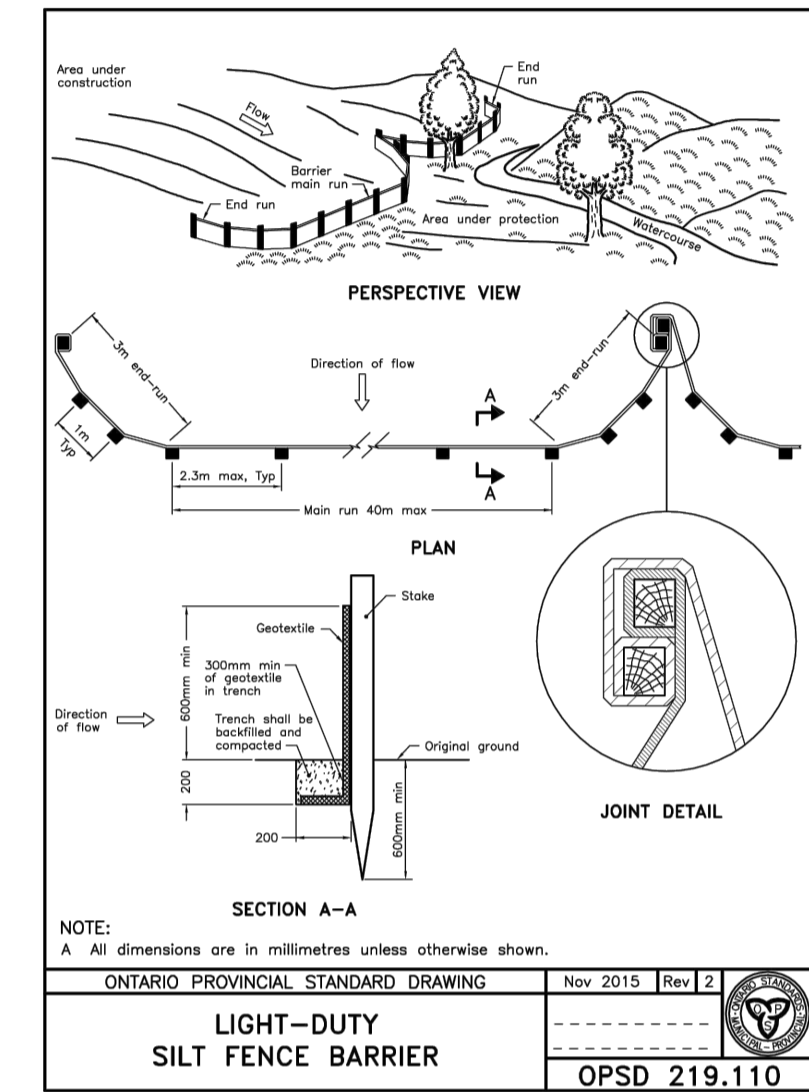
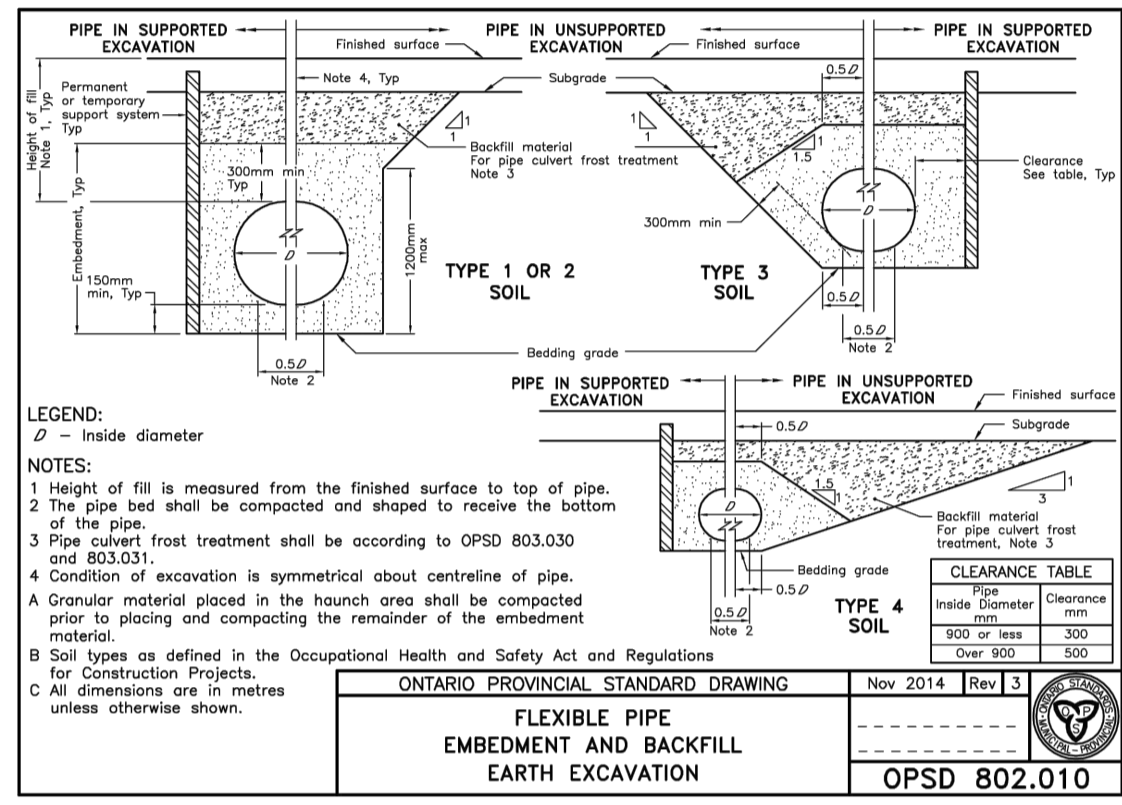
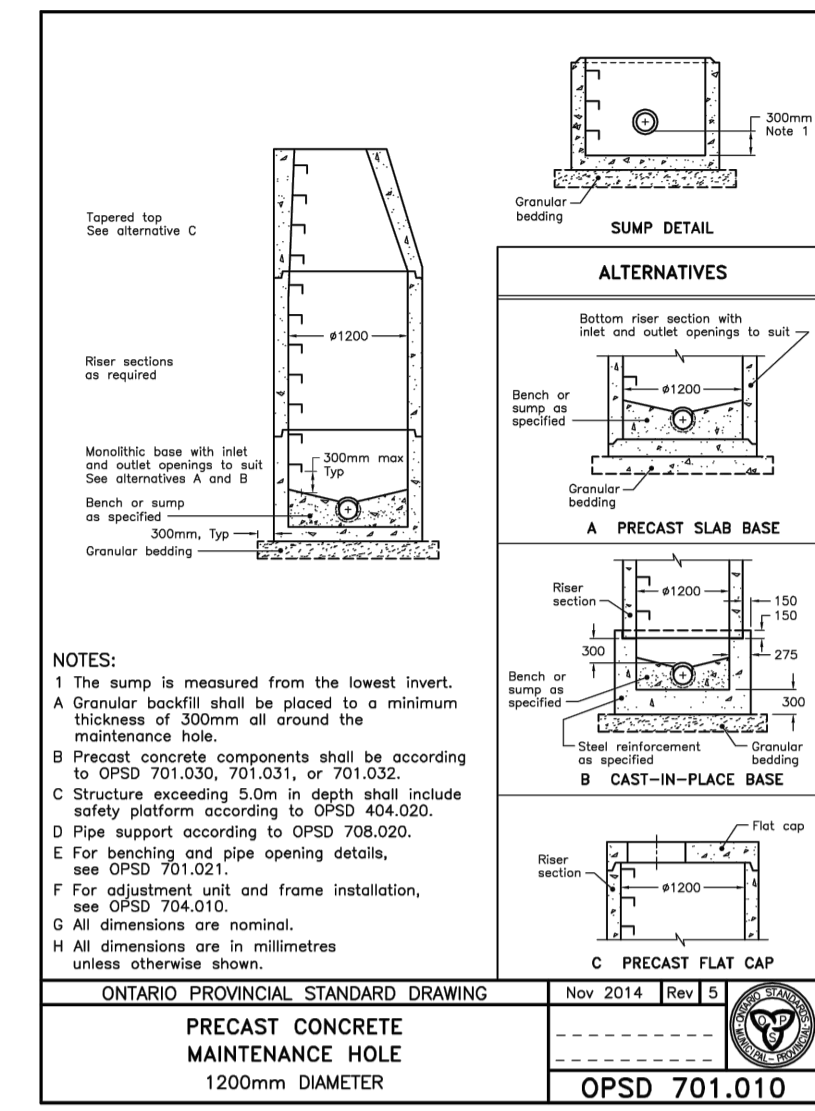
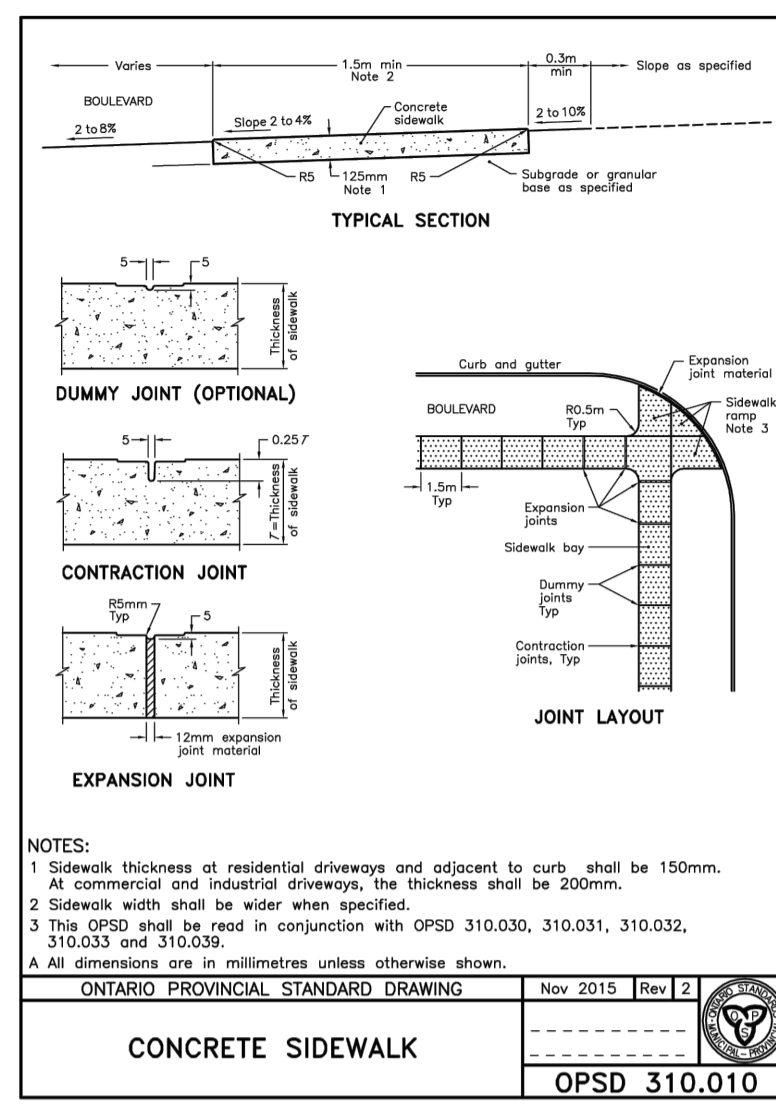
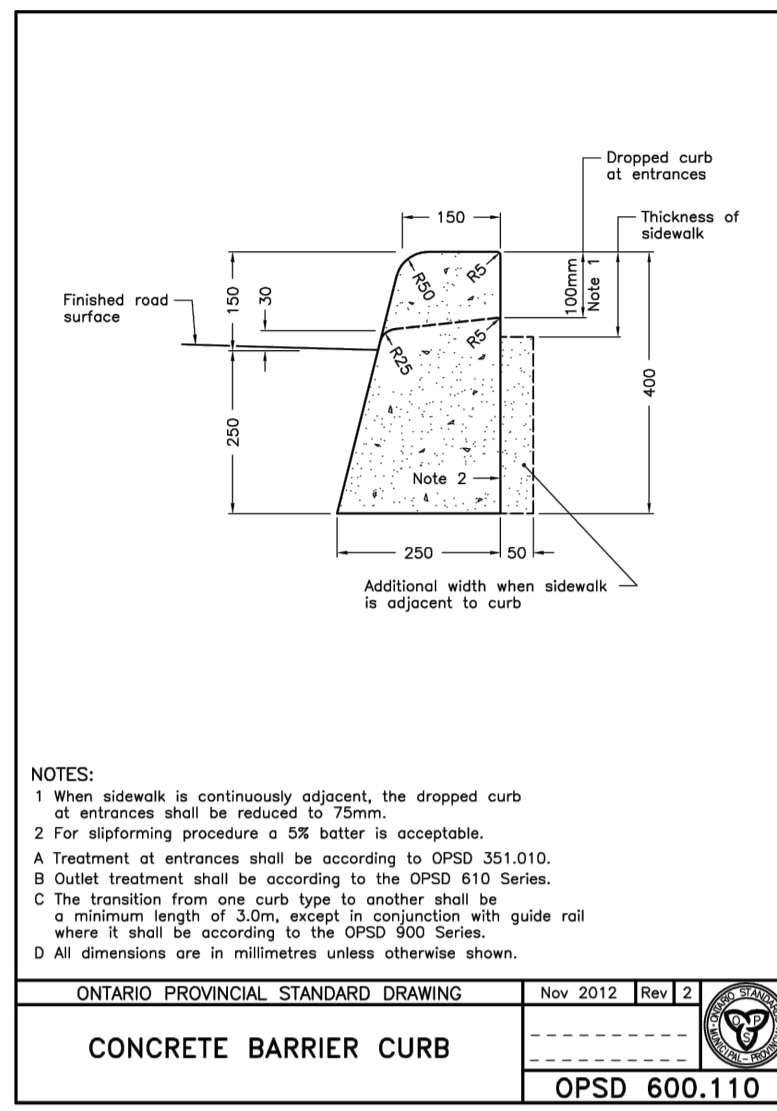
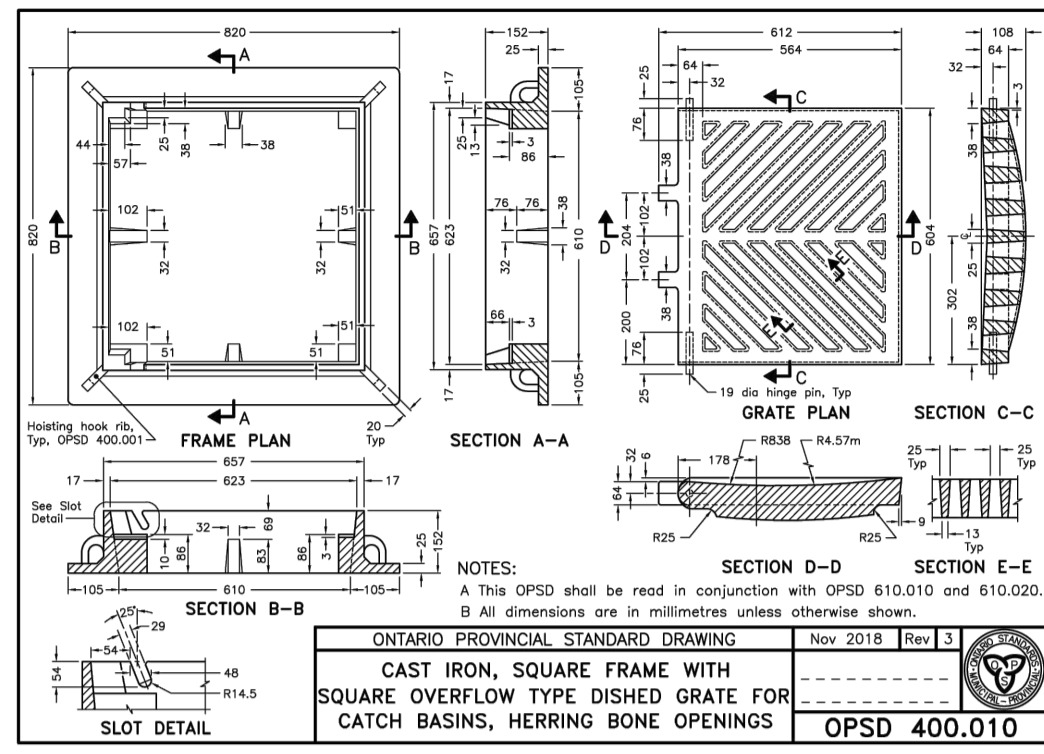
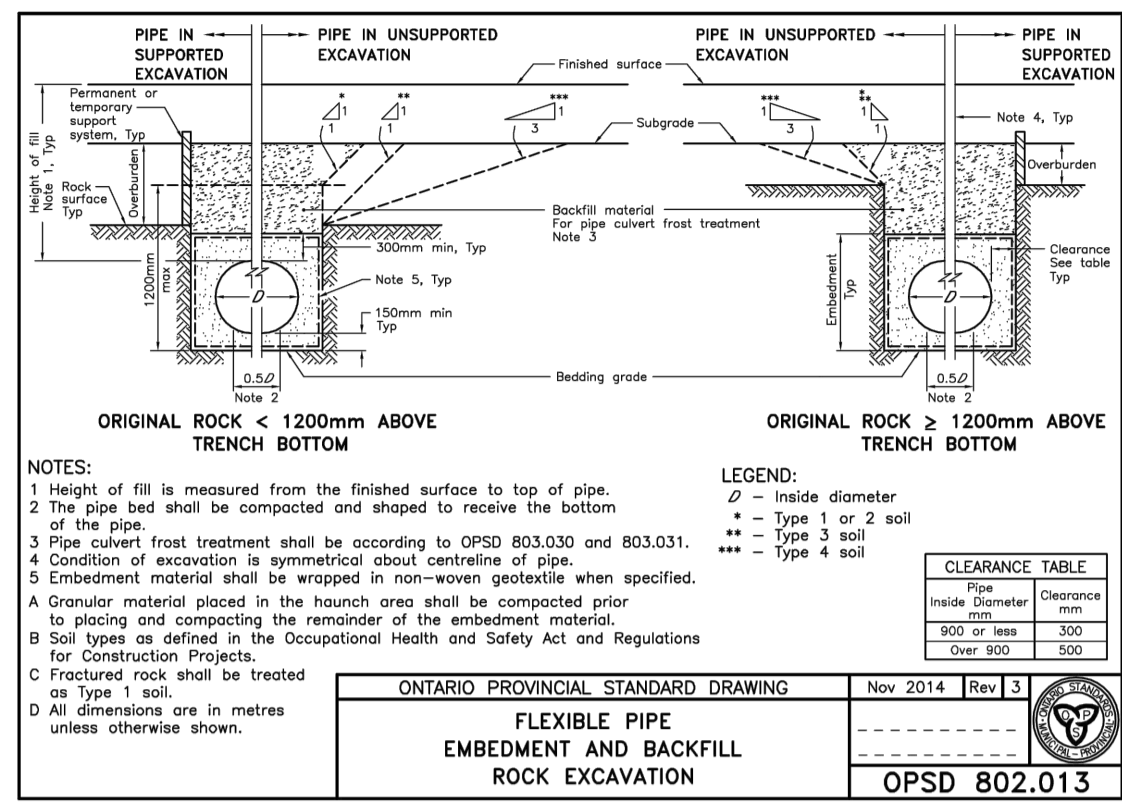
PROJECT
**PROPOSED DEVELOPMENT
HALO CAR WASH
3095 PALLADIUM DRIVE
KANATA, ON**

DRAWING TITLE
**POST-DEVELOPMENT
WATERSHED PLAN**

PROJECT NO.
230273

DATE
MAY 2023

C702



USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CONTRACT DOCUMENTS.

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER CONFIRMS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS. THE CONTRACTOR CONFIRMS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS, CAD FILES OR OTHER ELECTRONIC MEDIA AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT, INCLUDING REPEATS OF THE PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.

UNLESS THE REVISION TITLE IS ISSUED FOR CONSTRUCTION, THESE DRAWINGS SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A CONSTRUCTION DOCUMENT.

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CLIENT: **HALO CAR WASH**

DESIGNED BY: M.L. DRAWN BY: M.L. APPROVED BY: M.B.

PROJECT: **PROPOSED DEVELOPMENT HALO CAR WASH 3095 PALLADIUM DRIVE KANATA, ON**

DRAWING TITLE: **CONSTRUCTION DETAIL PLAN**

PROJECT NO.: **230273**

DATE: **MAY 2023**

C901