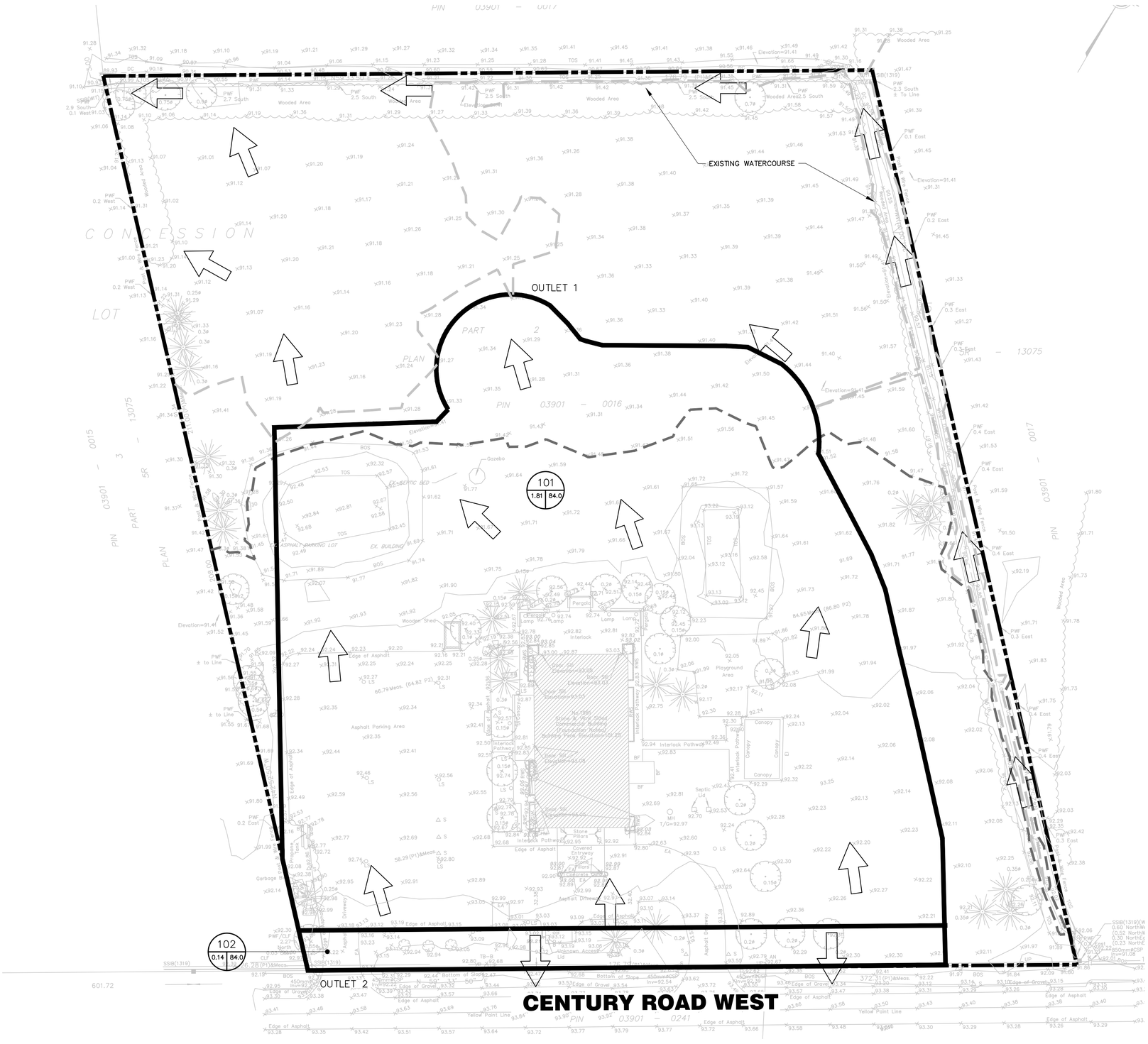
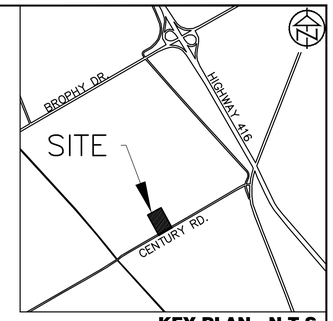




KEY PLAN - N.T.S.

LEGEND

- SUBJECT PROPERTY BOUNDARY
- DRAINAGE AREA BOUNDARY
- 100-YEAR FLOOD ELEVATION 91.27
- 350-YEAR FLOOD ELEVATION 91.49
- EXISTING CONDITION DRAINAGE DIRECTION
- 101 / 1.81 | 84.0 — DRAINAGE AREA ID / CURVE NUMBER CN / AREA (ha.)

LEGAL AND TOPOGRAPHIC SURVEY COMPLETED BY ANNIS, O'SULLIVAN VOLLEBEKK LTD. ONTARIO LAND SURVEYOR, ON MAY 11, 2023.

ELEVATION SHOWN ARE GEODETIC AND ARE REFERRED TO CGVD28 GEODETIC DATUM.

TBM1: TOP OF PROPERTY IRON BAR LOCATED ON SOUTHEAST OF THE PROPERTY, ELEVATION 91.86.

No.	REVISION DESCRIPTION	DATE
2.	RE-ISSUED FOR SITE PLAN APPROVAL	JUL 2025
3.	RE-ISSUED FOR SITE PLAN APPROVAL	AUG 2025
4.	RE-ISSUED FOR SITE PLAN APPROVAL	APR 2026
5.	ISSUED FOR BUILDING PERMIT	JULY 2026
6.	RE-ISSUED FOR SITE PLAN APPROVAL	JULY 2026

ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER
J.R. ASH
100123062
PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

EXISTING CONDITION DRAINAGE PLAN

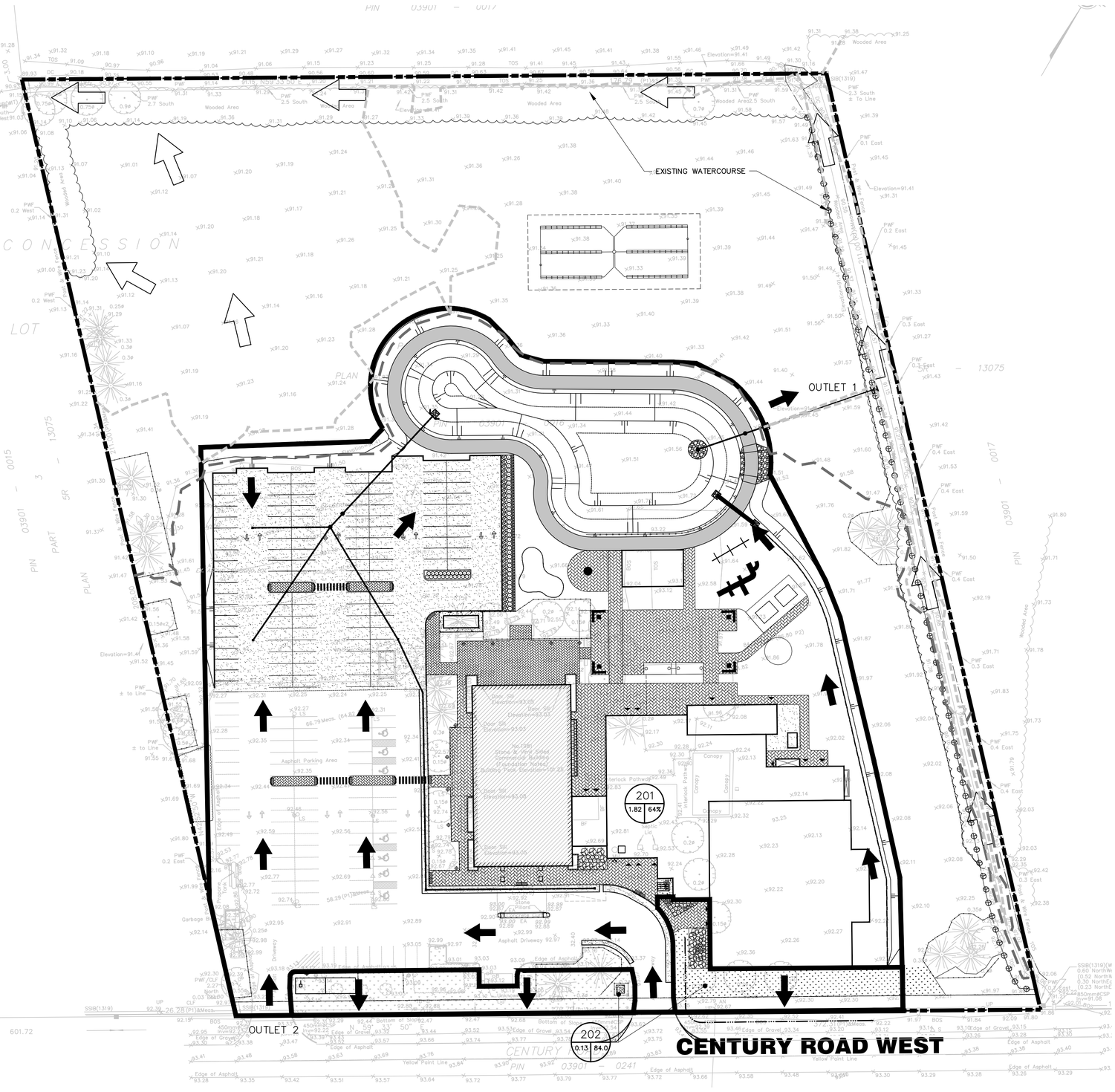
TATHAM ENGINEERING

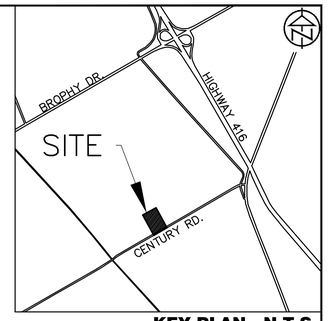
DESIGN: HY	FILE: 523654	DWG: DP-1
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE: 1:500	

D07-12-25-0033

APPLICATION#

Drawing Name: 523654-DP01.dwg, Plotted: Jul 31, 2026





KEY PLAN - N.T.S.

LEGEND

- SUBJECT PROPERTY BOUNDARY
- DRAINAGE AREA BOUNDARY
- 100-YEAR FLOOD ELEVATION 91.27
- 350-YEAR FLOOD ELEVATION 91.49
- PROPOSED CONDITION DRAINAGE DIRECTION
- 201 / 1.82 / 64% — DRAINAGE AREA ID; CURVE NUMBER CN/ % IMPERVIOUS; AREA (ha.)

LEGAL AND TOPOGRAPHIC SURVEY COMPLETED BY ANNIS, O'SULLIVAN VOLLEBEKK LTD. ONTARIO LAND SURVEYOR, ON MAY 11, 2023.

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J.R. ASH
100123062
PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

PROPOSED CONDITION DRAINAGE PLAN

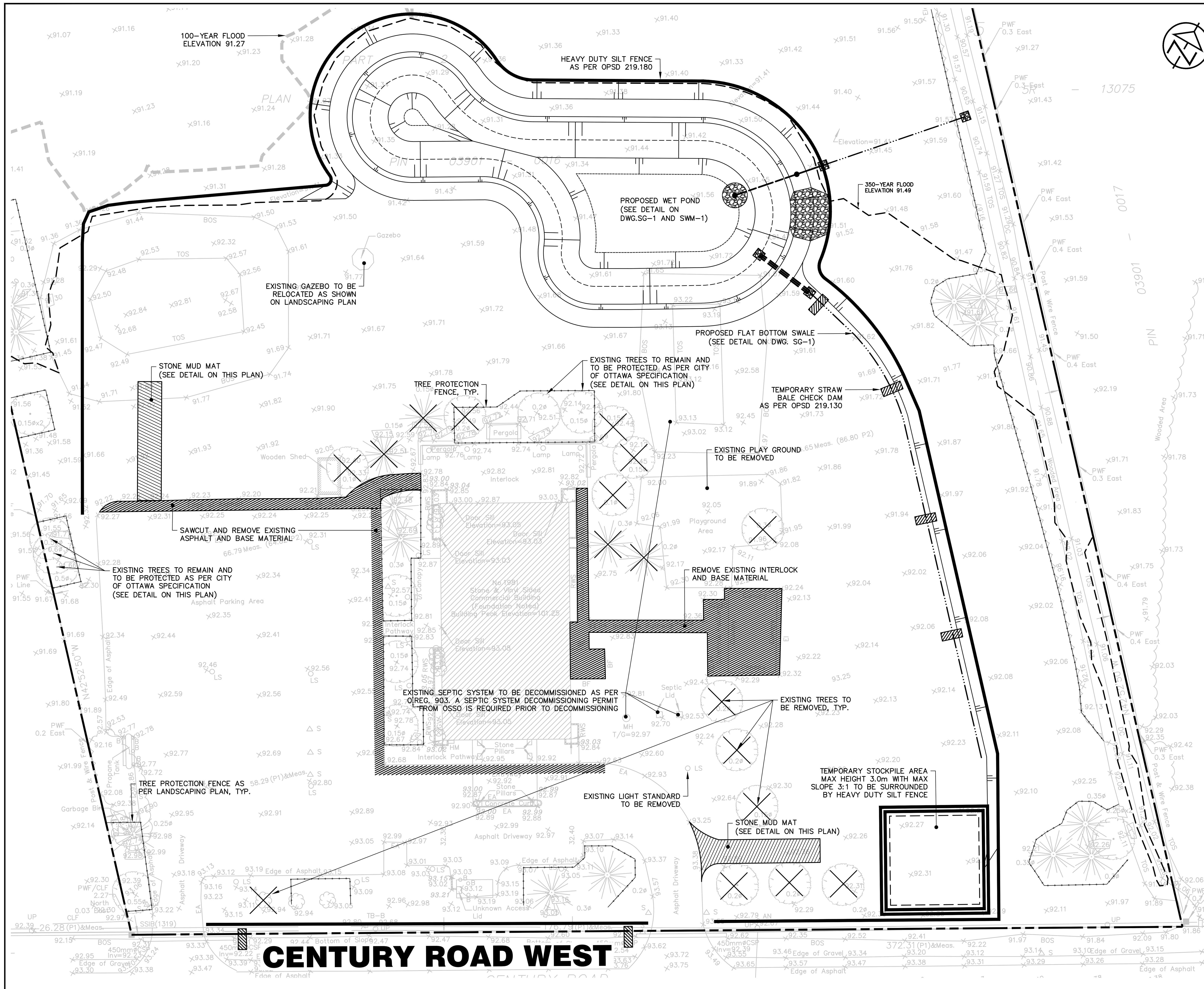
TATHAM ENGINEERING

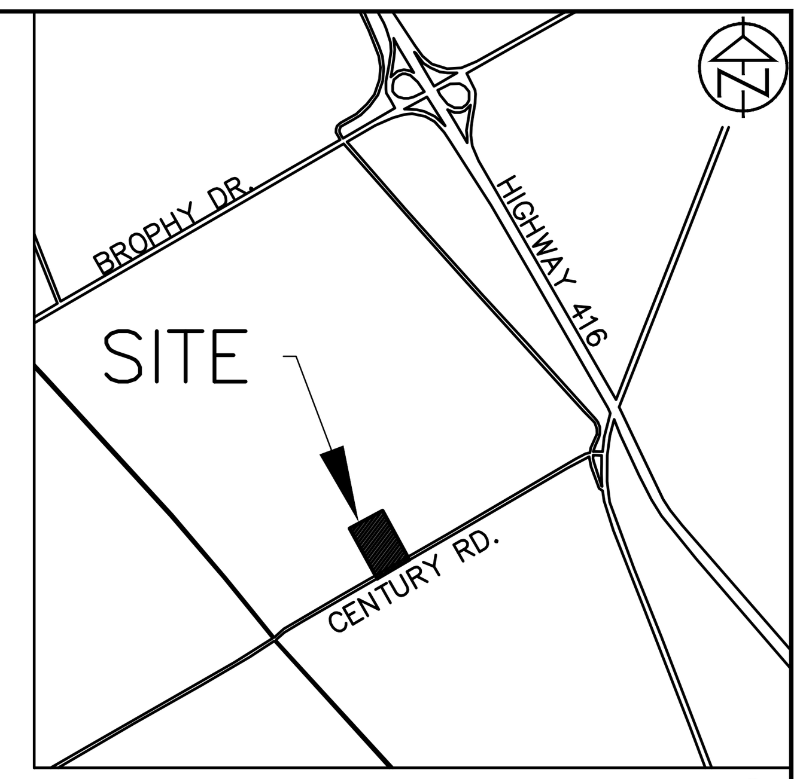
DESIGN: HY	FILE: 523654	DWG: **DP-2**
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE: 1:500	

APPLICATION#

D07-12-25-0033

Drawing Name: 523654-DP02.dwg, Plotted: Jul 31, 2026

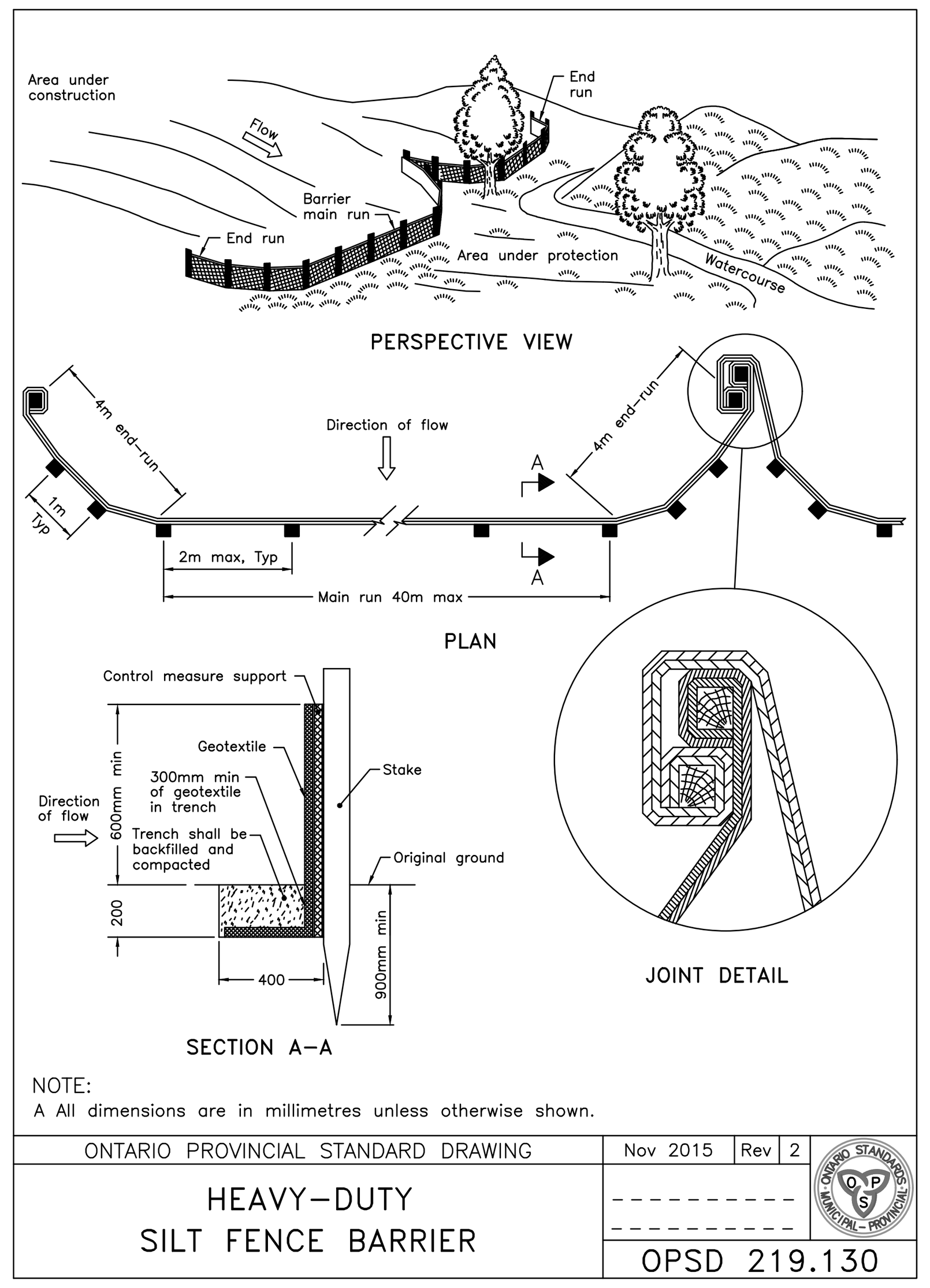


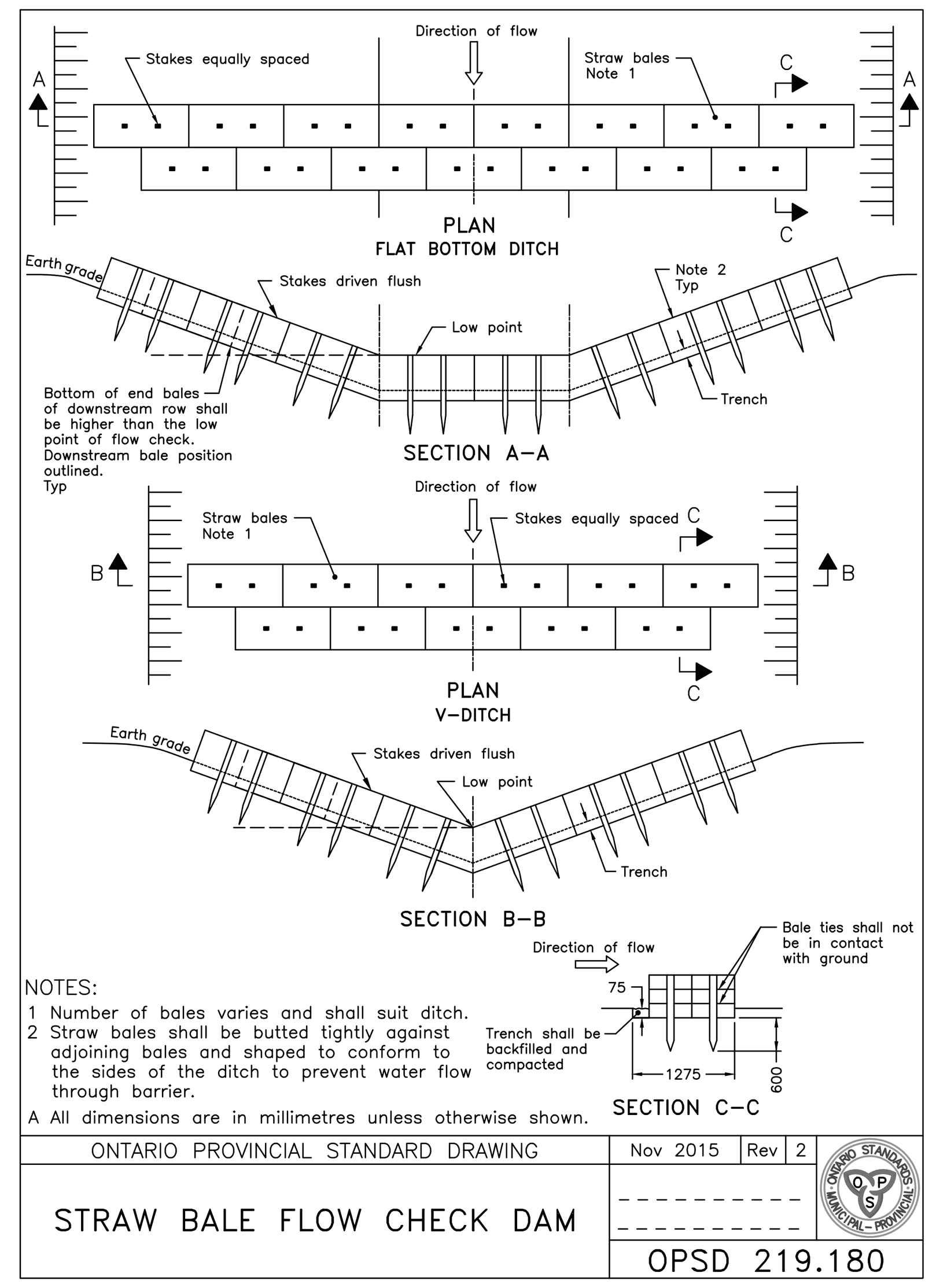


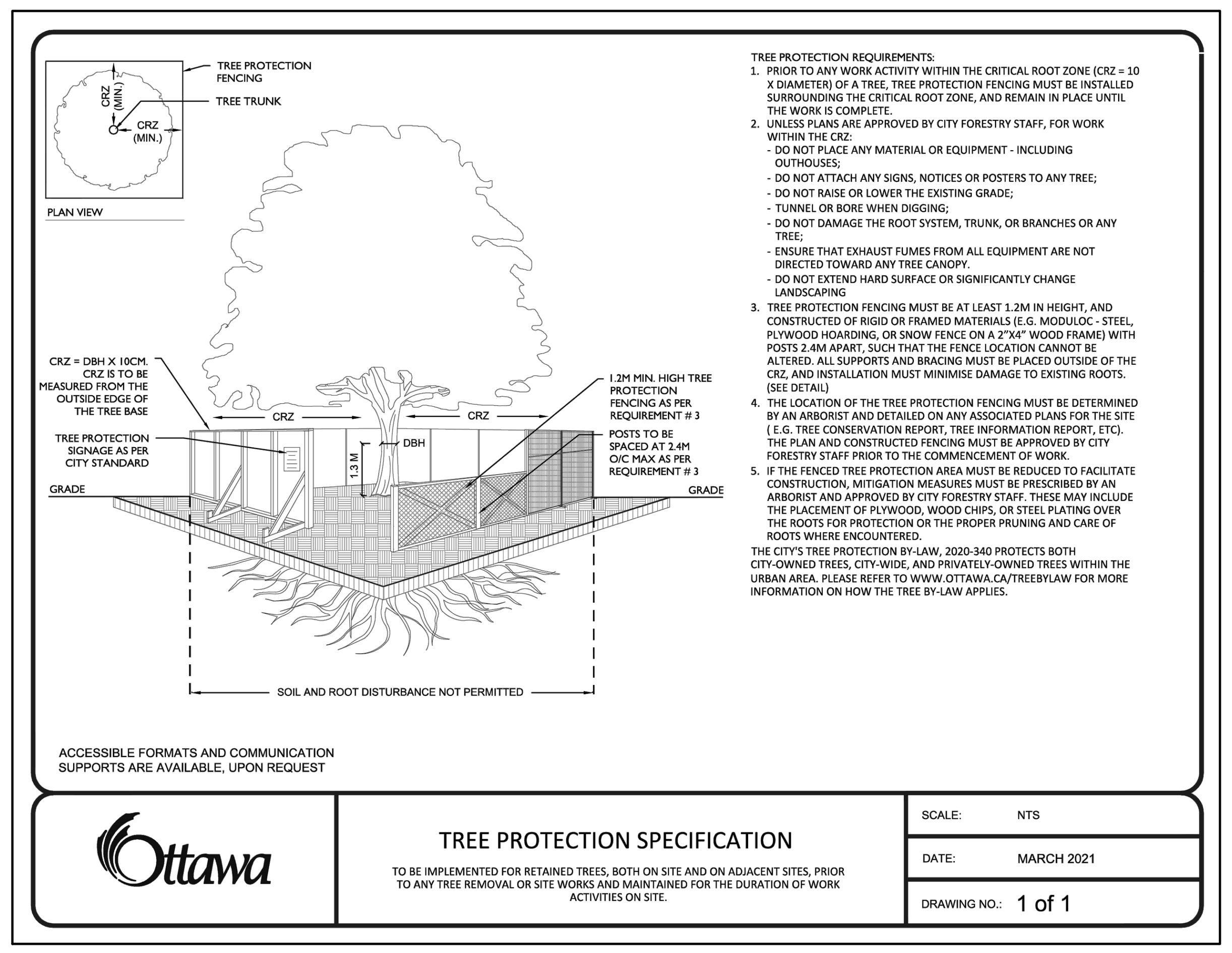
KEY PLAN - N.T.S.

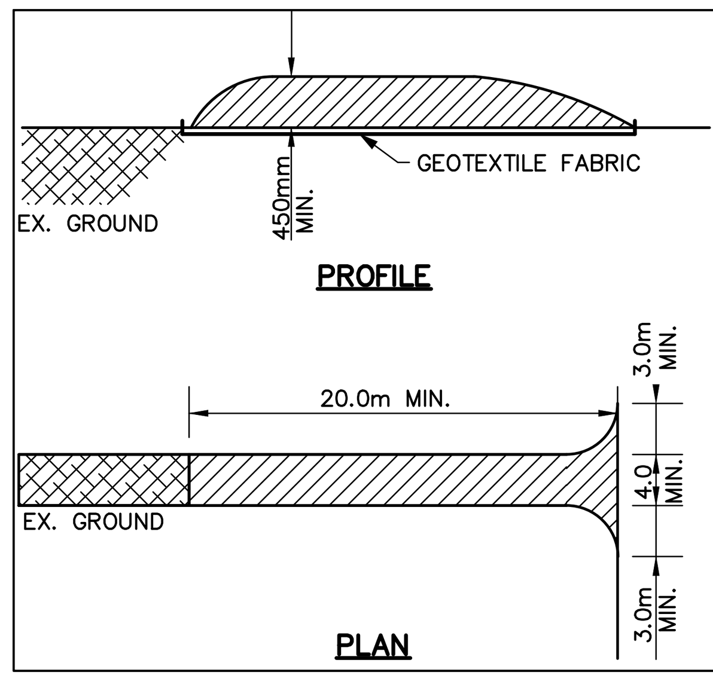
GENERAL NOTES

1. CONTRACTOR TO INSTALL AND MAINTAIN SILT FENCE AND STRAW BALE CHECK DAMS AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. IF CONSTRUCTION IS INTERRUPTED AND/OR INACTIVITY EXCEEDS 30 DAYS, THEN STOCKPILED, STRIPPED OR EXPOSED AREAS MUST BE STABILIZED BY HYDROSEEDING AND ANY OTHER APPROPRIATE GEOTEXTILE MATERIAL, IF REQUIRED.
3. REMOVAL OF ALL SILT FENCES AND STRAW BALE CHECK DAMS AT THE END OF CONSTRUCTION TO BE APPROVED BY THE ENGINEER AFTER THE SITE HAS STABILIZED.
4. SILT FENCE TO OPSD 219.130 AND STRAW BALE CHECK DAM TO OPSD 219.180.
5. CLEARING OF VEGETATION AND TREE COVER IS TO OCCUR OUTSIDE OF BIRD BREEDING SEASON AS RECOMMENDED BY THE CITY OF OTTAWA'S PROTOCOL FOR WILDLIFE PROTECTION DURING CONSTRUCTION (APRIL 15 – AUGUST 15).
6. ALL SIDE SLOPES 3:1 OR GREATER ARE TO BE STABILIZED IMMEDIATELY WITH HYDROSEED (USING A NATIVE SEED MIX) UNLESS OTHERWISE NOTED. USE OF AN EROSION CONTROL BLANKET SUCH AS TERRAFIX S–100 (OR APPROVED EQUAL) IS RECOMMENDED IF CONSTRUCTION OCCURS OUTSIDE OF THE GROWING SEASON.









STONE SIZE – THE STONE PAD SHALL BE A MIN. 450mm THICK. USE 50ømm STONE OR RECLAIMED CONCRETE EQUIVALENT FOR FIRST 10m FROM ADJACENT ROAD & 150mmø STONE. FOR REMAINDER OF STONE PAD.

LENGTH – AS REQUIRED BUT NOT LESS THAN 20m.

WIDTH – 4m MIN. BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS. AND EGRESS OCCURS.
GEOTEXTILE FABRIC (TERRAFIX 270R OR EQUAL) WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.

SURFACE WATER – ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.

MAINTENANCE – THE CONTRACTOR SHALL MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT–OF–WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR. UPON OBSERVATION OF CONTINUOUS MUD TRACKING ONTO ADJACENT STREETS, THE STONE MAT IS TO BE FULLY REPLACED.

WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

INSPECTION AND REQUIRED MAINTENANCE AFTER EACH RAIN SHALL BE PROVIDED BY THE CONTRACTOR.

STONE MUD MAT DETAIL
SCALE: N.T.S

SCHEDULE OF CONSTRUCTION WORKS

1. IMPLEMENTATION OF EROSION CONTROL MEASURES AS SPECIFIED ON THIS PLAN
2. REMOVALS AS SPECIFIED ON THIS PLAN
3. TOPSOIL STRIPPING AND STOCKPILING
4. EXCAVATION OF THE DRY SWM FACILITY TO BE USED AS A TEMPORARY SETTLING BASIN DURING CONSTRUCTION. EXCAVATION OF SWALE TO INTERCEPT RUNOFF FROM THE CONSTRUCTION ZONE AND DIRECT IT TO THE SWM POND.
5. EARTH EXCAVATION AND ROUGH GRADING THROUGH OUT THE SITE

LEGEND

Symbol	Description
	PROPERTY BOUNDARY
	BOTTOM OF SWALE AND FLOW DIRECTION
262.25	EXISTING ELEVATION
	TEMPORARY STRAW BALE CHECK DAM AS PER OPSD 219.180
	HEAVY DUTY SILT FENCE AS PER OPSD 219.130

DISCLAIMER AND COPYRIGHT

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LEGAL AND TOPOGRAPHIC SURVEY COMPLETED BY ANNIS, O'SULLIVAN VOLLEBEKK LTD. ONTARIO LAND SURVEYOR, ON MAY 11, 2023.

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ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER J. R. ASH 100123062 PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

REMOVALS, SILTATION AND EROSION CONTROL PLAN

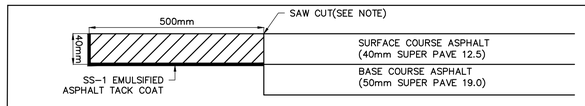
TATHAM ENGINEERING

DESIGN: HY	FILE: 523654	DWG:
DRAWN: HY	DATE: SEPT 2024	SC-1
CHECK: GC	SCALE: 1:400	

D07-12-25-0033

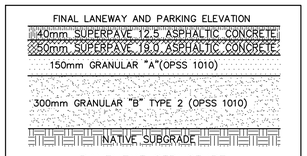
APPLICATION#

Drawing Name: 523654-SC01.dwg, Plotted: Jul 31, 2026

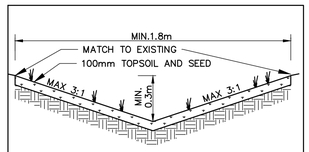


LAP JOINT DETAIL

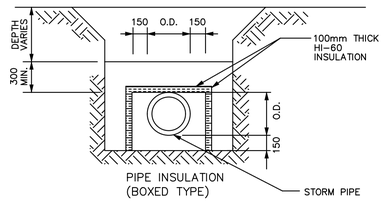
NOTES:
1. TRANSITION TREATMENT (LAP JOINT) REQUIRED AT ALL LOCATIONS WHERE MATCHING TO AN EXISTING ASPHALT SURFACE. THE EXISTING PAVEMENT EDGES SHALL BE"SAW CUT" TO FORM A STRAIGHT, CLEAN VERTICAL FACE.
2. APPLY UNIFORM COATING OF SS-1 EMULSIFIED TACK COAT TO EXISTING ASPHALT AT THE TRANSITION TREATMENT AREA.



PAVEMENT STRUCTURE
NTS

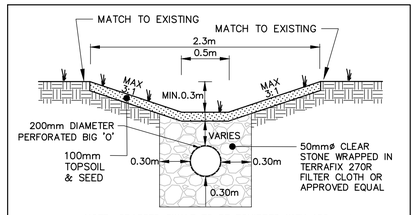


GRASSED SWALE DETAIL
NTS



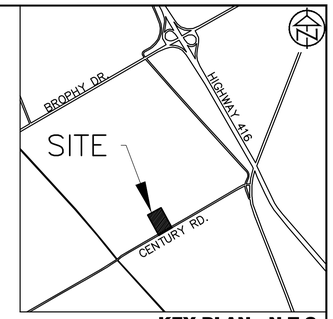
NOTE :
1. WHEREVER INSULATION IS USED; PROVIDE GRANULAR 'A' BEDDING AND COVER.
2. ALL NOTES PERTAINING TO BEDDING DETAILS SHALL APPLY.
3. FROST TAPERS TO OPSD 803.030 AND OPSD 803.031 AND AS DIRECTED BY THE ENGINEER.

STORM PIPE FROST PROTECTION DETAIL
SCALE: NTS

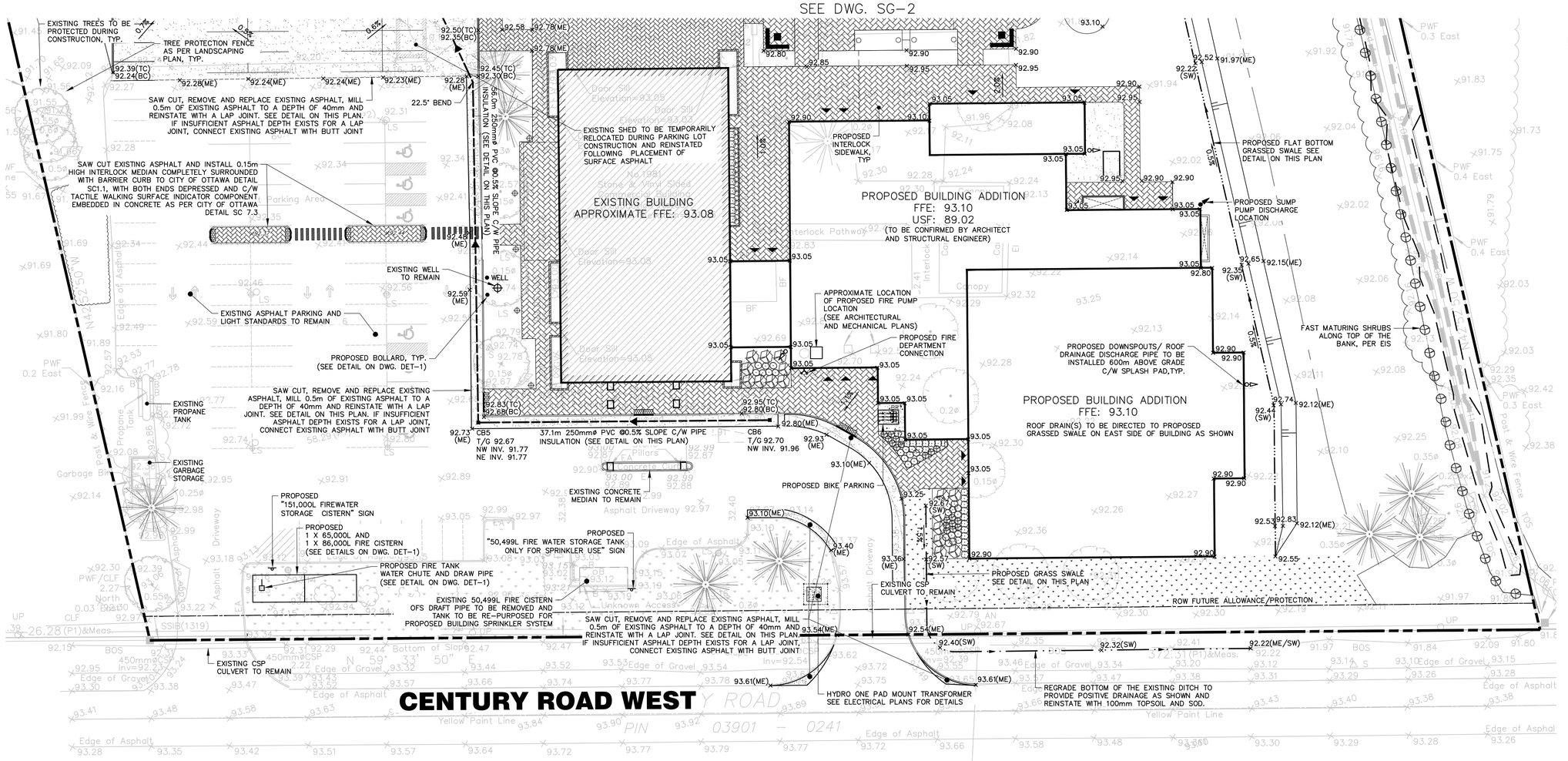


NOTE: GRASSED SWALE TO BE EQUIPPED WITH 150mmø SUBDRAIN IN A CLEAR STONE TRENCH IF SLOPE < 1.5%

ENHANCED FLAT BOTTOM GRASSED SWALE DETAIL
N.T.S



KEY PLAN - N.T.S.



LEGEND

- PROPERTY BOUNDARY
- BOTTOM OF DITCH AND FLOW DIRECTION
- × 262.25 EXISTING ELEVATION
- × 262.25(ME) PROPOSED ELEVATION MATCH EXISTING
- × 262.25(SW) BOTTOM OF SWALE ELEVATION
- PROPOSED ASPHALT
- PROPOSED INTERLOCK WALKWAY

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ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER
J.R.ASH
100123062
PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

SITE GRADING AND SERVICING PLAN

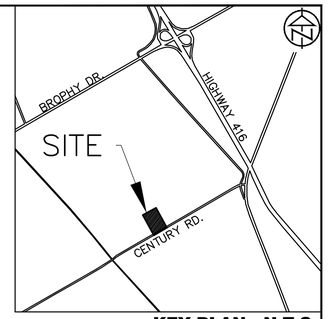
TATHAM ENGINEERING

DESIGN: HY	FILE: 523654	DWG: SG-1
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE: 1:300	

D07-12-25-0033

APPLICATION#

Drawing Name: 523654-SG01.dwg, Plotted: Jul 31, 2026



KEY PLAN - N.T.S.

PROPOSED SEPTIC SYSTEM LOCATION (DESIGN BY PATERSON GROUP, SEE DWG. PH4720-1 AND PH4720-02 (RE5) FOR GRADING AND OTHER DETAILS

350-YEAR FLOOD ELEVATION 91.49

1.5m X 1.5m X 300mm DEEP 200mmø RIP RAP OVER TERRAFIX 270R FILTER FABRIC (OR APPROVED EQUAL)

CONCRETE HEADWALL AS PER OPSD 804.030 GRATING AS PER 804.050

30.9m 525mmø PVC @ 0.5% SLOPE C/W PIPE INSULATION

STORMCEPTOR MODEL EF04 OGS (SEE DETAIL ON DWG.SWM-1)
T/G 92.42
N INV. 91.30
SW INV. 91.33

CBMH1
T/G 92.38
NE INV. 91.35
SE INV. 91.35
S INV. 91.35
SW INV. 91.35

TREE PROTECTION FENCE AS PER LANDSCAPING PLAN, TYP.

100-YEAR FLOOD ELEVATION 91.27

2.0m WIDE DEPRESSED CURB

4.0m 525mmø PVC @ 0.5% SLOPE C/W PIPE INSULATION SEE DETAIL ON DWG.SG-1

PROPOSED PAVEMENT STRUCTURE SEE DETAIL ON THIS PLAN

CB2
T/G 92.05
NE INV. 91.44

17.1m 250mmø PVC @0.5% SLOPE C/W PIPE INSULATION SEE DETAIL ON DWG.SG-1

30.0m 300mmø PVC @0.5% SLOPE C/W PIPE INSULATION SEE DETAIL ON DWG.SG-1

MAX 3:1, ALL DISTURBED AREAS TO BE REINSTATED WITH 100mm TOPSOIL AND HYDROSEED

0.15m HIGH INTERLOCK MEDIAN COMPLETELY SURROUNDED WITH BARRIER CURB TO CITY OF OTTAWA DETAIL SC1.1, WITH BOTH ENDS DEPRESSED AND C/W TACTILE WALKING SURFACE INDICATOR COMPONENT EMBEDDED IN CONCRETE AS PER CITY OF OTTAWA DETAIL SC 7.3

CB3
T/G 92.15
N INV. 91.50

28.7m 375mmø PVC @0.5% SLOPE C/W PIPE INSULATION SEE DETAIL ON DWG.SG-1

CB4
T/G 92.15
NW INV. 91.49

EXISTING TREES TO BE PROTECTED DURING CONSTRUCTION, TYP.

TREE PROTECTION FENCE AS PER LANDSCAPING PLAN, TYP.

100 YEAR PONDING ELEVATION 91.90

3.0m WIDE WET POND MAINTENANCE ACCESS, SEE DETAIL ON DWG. SWM-1

11.0m 250mmø PVC @14.1% REVERSED SLOPE C/W PIPE

4.5m 250mmø PVC @1.0% REVERSED SLOPE C/W PIPE INSULATION SEE DETAIL ON DWG.SG-1

STMMH7
(C/W ORIFICE PLATE CONTROL AT NORTHEAST OUTLET SEE DETAIL ON DWG.SWM-1)
T/G 92.25
NE INV. 91.30
SW INV. 91.27

PERMANENT POOL ELEVATION 91.30

INV. 91.14

BOTTOM OF POND ELEVATION 89.80

PROPOSED WET POND (SEE DETAIL ON DWG. SWM-1)

HICKEN BOTTOM SEE DETAIL ON DWG. SWM-1

CONCRETE BARRIER CURB TO CITY OF OTTAWA DETAIL SC1.1 SEE DETAIL ON DWG DET-1

PROPOSED SAFETY FENCE, REFER TO LANDSCAPE PLAN FOR DETAILS

PROPOSED GENERATOR (SEE ELECTRICAL PLANS FOR DETAILS)

RELOCATED EXISTING PAVILLION

PROPOSED PLAYGROUND

FAST MATURING SHRUBS ALONG TOP OF THE BANK, PER EIS

100-YEAR FLOOD ELEVATION 91.27

15.0m WATERCOURSE SETBACK

1.5m X 1.5m X 300mm DEEP 200mmø RIP RAP OVER TERRAFIX 270R FILTER FABRIC (OR APPROVED EQUAL)

GRASSED SWALE SEE DETAIL ON DWG.SG-1

INV. 91.20

EMERGENCY OVERFLOW C/W 51m² 300mm DEEP 200mmø RIP RAP OVER TERRAFIX 270R FILTER FABRIC (OR APPROVED EQUAL), SEE DETAIL ON DWG. SWM-1

12.0m 300mmø HDPE TWIN CULVERT
W INV. 91.60
E INV. 91.72

1.5m X 1.5m X 300mm DEEP 200mmø RIP RAP OVER TERRAFIX 270R FILTER FABRIC (OR APPROVED EQUAL), BOTH ENDS

ANY DISTURBED LANDSCAPED AREA TO BE STABILIZED WITH 100mm TOPSOIL AND HYDROSEED

MAX 3:1 SLOPE ALL DISTURBED AREAS TO BE REINSTATED WITH 100mm TOPSOIL AND SEED.

SEE DWG. SG-1

LEGEND

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- BOTTOM OF DITCH AND FLOW DIRECTION
- × 262.25 EXISTING ELEVATION
- × 262.25(ME) PROPOSED ELEVATION MATCH EXISTING
- × 262.25(SW) BOTTOM OF SWALE ELEVATION
- PROPOSED ASPHALT
- PROPOSED INTERLOCK WALKWAY

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BRUNSTAD CHRISTIAN CHURCH OTTAWA

SITE GRADING AND SERVICING PLAN

TATHAM ENGINEERING

DESIGN: HY	FILE: 523654	DWG: SG-2
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE: 1:300	

D07-12-25-0033

APPLICATION#

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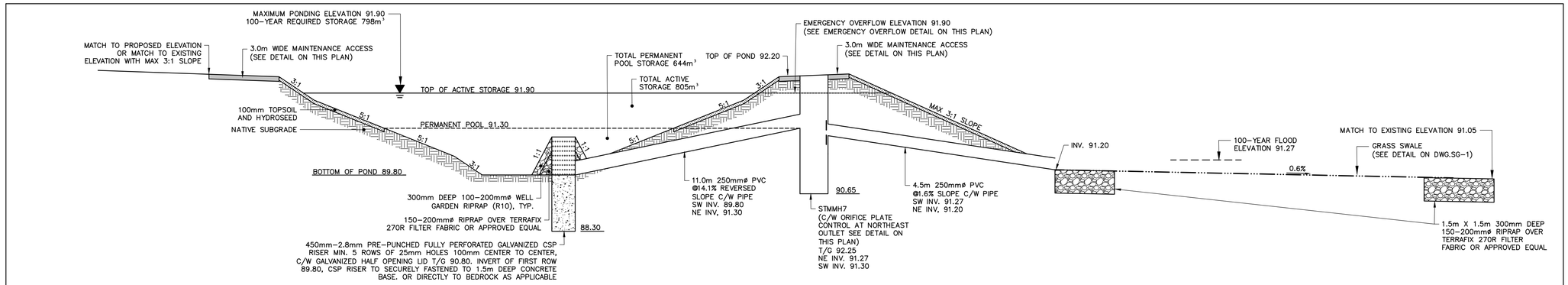
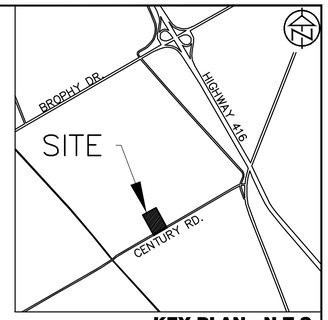
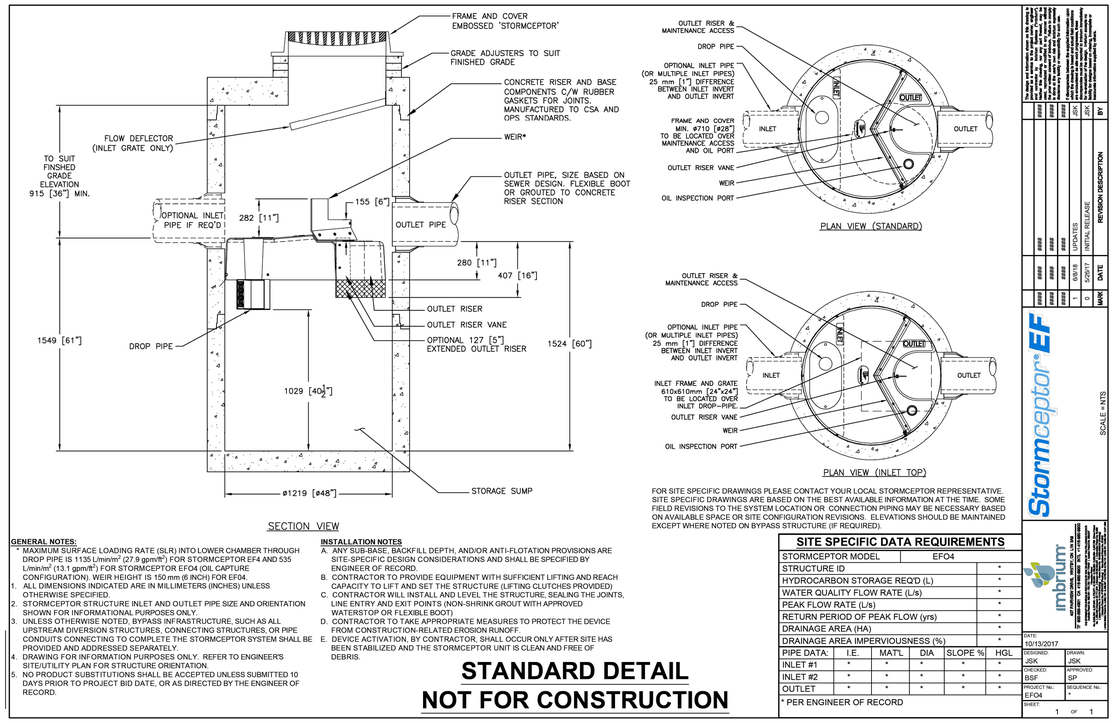


WET POND DETAIL
SCALE: NTS



KEY PLAN - N.T.S.



SCALE = NTS

FOR SITE SPECIFIC DRAWINGS PLEASE CONTACT YOUR LOCAL STORMCEPTOR REPRESENTATIVE. SITE SPECIFIC DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME. SOME FIELD REVISIONS TO THE SYSTEM LOCATION OR CONNECTION PIPING MAY BE NECESSARY BASED ON AVAILABLE SPACE OR SITE CONFIGURATION REVISIONS. ELEVATIONS SHOULD BE MAINTAINED EXCEPT WHERE NOTED ON BYPASS STRUCTURE (IF REQUIRED).

SITE SPECIFIC DATA REQUIREMENTS

STORMCEPTOR MODEL	EF04					*
STRUCTURE ID						*
HYDROCARBON STORAGE REQ'D (L)						*
WATER QUALITY FLOW RATE (L/s)						*
PEAK FLOW RATE (L/s)						*
RETURN PERIOD OF PEAK FLOW (yrs)						*
DRAINAGE AREA (HA)						*
DRAINAGE AREA IMPERVIOUSNESS (%)						*
PIPE DATA:	I.E.	MATL	DIA	SLOPE %	HGL	
INLET #1	*	*	*	*	*	
INLET #2	*	*	*	*	*	
OUTLET	*	*	*	*	*	

* PER ENGINEER OF RECORD

MARK	DATE	REVISION DESCRIPTION	BY
####	####	####	####
####	####	####	####
####	####	####	####
1	6/8/16	UPDATES	JSK
0	5/26/17	INITIAL RELEASE	JSK

Stormceptor® EF

imbrium™

DATE: 10/13/2017
DESIGNED: JSK
DRAWN: JSK
CHECKED: BSF
APPROVED: SP
PROJECT No.: EF04
SEQUENCE No.: *
SHEET: 1 OF 1

GENERAL NOTES:

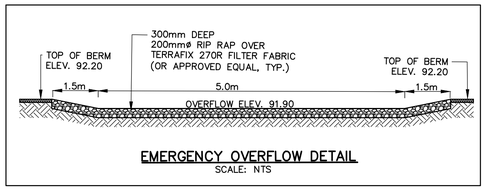
* MAXIMUM SURFACE LOADING RATE (SLR) INTO LOWER CHAMBER THROUGH DROP PIPE IS 1135 L/min/m² (27.9 gpm/ft²) FOR STORMCEPTOR EF4 AND 535 L/min/m² (13.1 gpm/ft²) FOR STORMCEPTOR EF04 (OIL CAPTURE CONFIGURATION). WEIR HEIGHT IS 150 mm (6 INCH) FOR EF04.

1. ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED.
2. STORMCEPTOR STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE STORMCEPTOR SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.
4. DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEER'S SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.
5. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

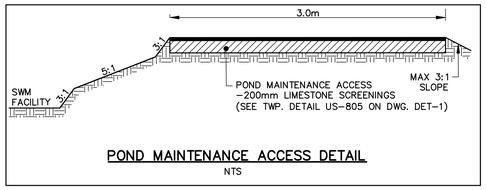
INSTALLATION NOTES

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. DEVICE ACTIVATION, BY CONTRACTOR, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE STORMCEPTOR UNIT IS CLEAN AND FREE OF DEBRIS.

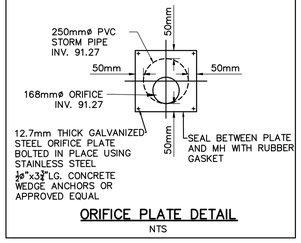
STANDARD DETAIL
NOT FOR CONSTRUCTION



EMERGENCY OVERFLOW DETAIL
SCALE: NTS



POND MAINTENANCE ACCESS DETAIL
NTS



ORIFICE PLATE DETAIL
NTS

LEGAL AND TOPOGRAPHIC SURVEY COMPLETED BY ANNIS, O'SULLIVAN VOLLEBEKK LTD. ONTARIO LAND SURVEYOR, ON MAY 11, 2023.

ELEVATION SHOWN ARE GEODETIC AND ARE REFERRED TO CGVD28 GEODETIC DATUM.

TBM1: TOP OF PROPERTY IRON BAR LOCATED ON SOUTHEAST OF THE PROPERTY, ELEVATION 91.86.

No.	REVISION DESCRIPTION	DATE
2.	RE-ISSUED FOR SITE PLAN APPROVAL	JUL 2025
3.	RE-ISSUED FOR SITE PLAN APPROVAL	AUG 2025
4.	RE-ISSUED FOR SITE PLAN APPROVAL	APR 2026
5.	ISSUED FOR BUILDING PERMIT	JULY 2026
6.	RE-ISSUED FOR SITE PLAN APPROVAL	JULY 2026

ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER
J.R. ASH
100123062
PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

STORMWATER MANAGEMENT PLAN

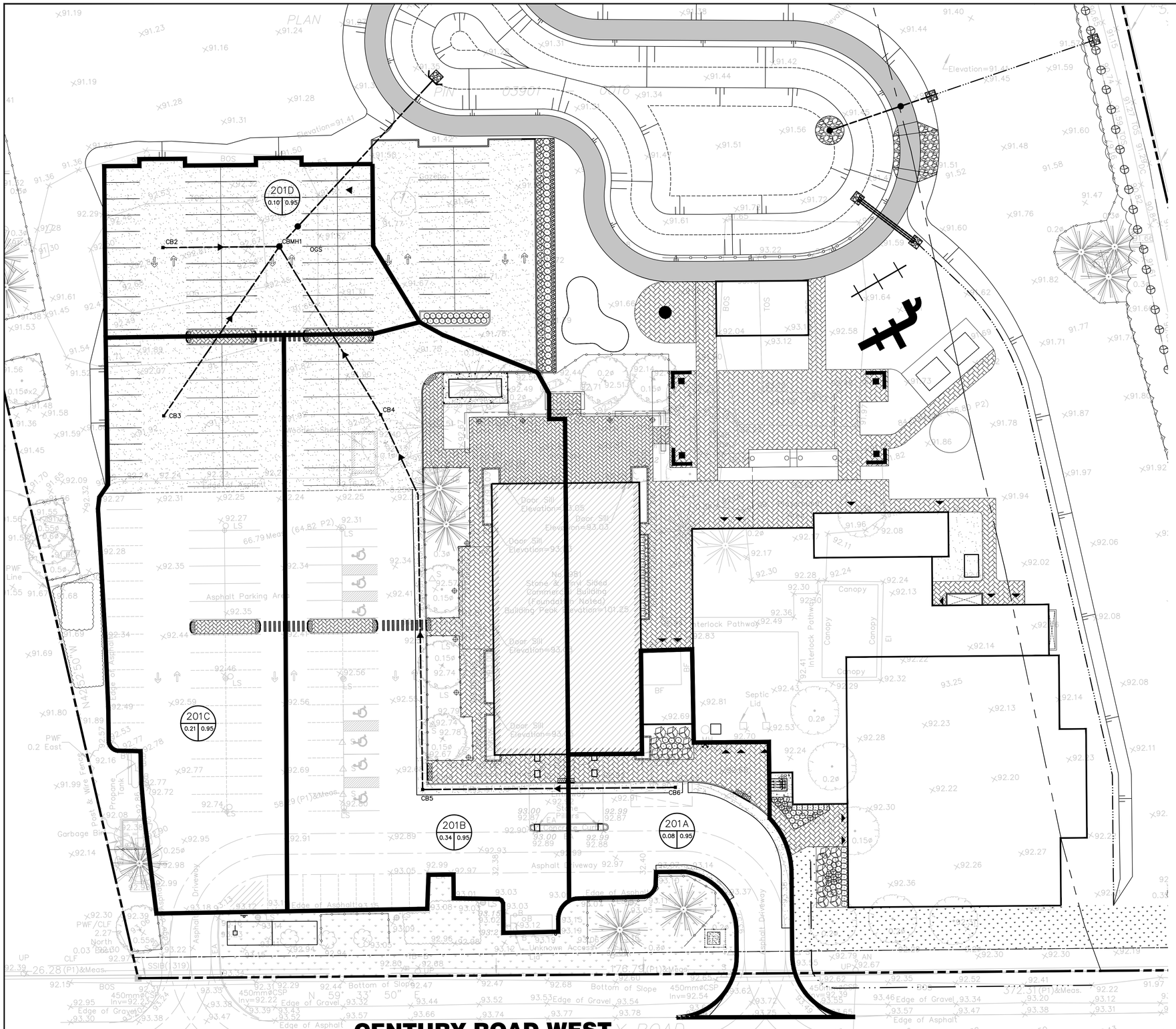
TATHAM ENGINEERING

DESIGN: HY	FILE: 523654	DWG:
DRAWN: HY	DATE: SEPT 2024	**SWM-1**
CHECK: GC	SCALE: AS SHOWN	

D07-12-25-0033

APPLICATION#

Drawing Name: 523654-SWM01.dwg, Plotted: Jul 31, 2026



KEY PLAN - N.T.S.

LEGEND

- PROPERTY BOUNDARY
- BOTTOM OF DITCH AND FLOW DIRECTION
- STORM DRAINAGE BOUNDARY
- HEAVY DUTY ASPHALT
- CONCRETE WALKWAY
- 201A / 0.08 / 0.95 — AREA ID / RUNOFF COEFFICIENT / DRAINAGE AREA

LEGAL AND TOPOGRAPHIC SURVEY COMPLETED BY ANNIS, O'SULLIVAN VOLLEBEKK LTD. ONTARIO LAND SURVEYOR, ON MAY 11, 2023.

ELEVATION SHOWN ARE GEODETIC AND ARE REFERRED TO CGVD28 GEODETIC DATUM.

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6.	RE-ISSUED FOR SITE PLAN APPROVAL	JULY 2026

ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER — J.R. ASH — 100123062 — PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

TATHAM ENGINEERING

STORM DRAINAGE PLAN

DESIGN: HY	FILE: 523654	DWG: STM-1
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE: 1:300	

D07-12-25-0033

APPLICATION#

Drawing Name: 523654-STM01.dwg, Plotted: Jul 31, 2026

1. STANDARDS AND DRAWINGS

A. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.

B. THE STANDARDS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS), THE ONTARIO PROVINCIAL STANDARDS DRAWINGS (OPSD) AND ELECTRICAL SAFETY AUTHORITY (ESA) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.

C. ORDER OF PRECEDENCE OF STANDARDS IS FIRSTLY CITY OF OTTAWA.

D. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT.

E. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.

2. MEASUREMENTS

A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE AND STRUCTURE DIAMETERS, WHICH ARE IN MILLIMETRES.

B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

3. GENERAL

A. PIPES TO BE CONSTRUCTED WITH BEDDING, COVER AND BACKFILL OR EMBEDMENT AND BACKFILL CONFORMING TO OPSD 802.010, 802.013, 802.014, 802.030, 802.031, 802.032, 802.033 AND 802.034 AS APPLICABLE BASED ON PIPE MATERIAL AND SOIL CONDITIONS, BEDDING, COVER, AND EMBEDMENT MATERIALSHALL BE GRANULAR 'A'. EMBEDMENT, BEDDING, COVER AND BACKFILL MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 100% OF THE MATERIALS SPMDD. IN WET AREAS EMBEDMENT MATERIAL TO BE 9.5 MM CLEAR LIMESTONE WRAPPED IN AN APPROVED GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUIVALENT).

B. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT. ALL DISTURBED AREAS WITHIN THE CITY RIGHT-OF-WAY TO BE SODDED.

C. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION.

D. EXISTING BELL DUCT BANKS, HYDRO BANKS AND GAS MAINS IN PAVEMENT OR BOULEVARD (AS LOCATED BY UTILITY PROVIDER) TO BE EXPOSED AT CONTRACTORS COST PRIOR TO INSTALLATION OF SANITARY OR STORM SEWER, CULVERTS, WATERMAIN OR SERVICES WHICH CROSS DUCT BANK OR GAS MAINS. ALL UTILITY DUCT BANKS ARE TO BE PROPERLY SUPPORTED WHEN SEWERS OR SERVICES ARE INSTALLED UNDERNEATH. SPACE BETWEEN DUCT BANK AND SEWER OR SERVICE TO BE BACKFILLED WITH UNSHRINKABLE FILL.

E. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY SUPPORT OF EXISTING CULVERTS, SEWER AND WATERMAIN AT ALL CROSSINGS.

F. THE CONTRACTOR SHALL OBTAIN ROAD OCCUPANCY AND ACCESS PERMITS FOR ALL WORK IN THE MUNICIPAL ROW. THE PERMIT(S) OBTAINED SHALL BE TAKEN OUT IN THE NAME OF THE CONTRACTOR.

G. THE CONTRACTOR SHALL PROTECT SURVEY MONUMENTS AND BENCHMARKS ENCOUNTERED DURING THE WORK. ALL SURVEY MONUMENTS AND BENCHMARK DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY AN ONTARIO LAND SURVEYOR, AT THE CONTRACTOR'S EXPENSE.

H. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL MATERIALS TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO ORDERING.

I. THE CONTRACTOR IS REQUIRED TO CONFIRM EXISTING GRADES AND PIPE INVERTS AT CONNECTIONS AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE COMMENCING WORK.

J. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER AND/OR CALCIUM CHLORIDE AS REQUIRED FOR COMPACTION AND/OR DUST CONTROL.

K. TREES/SHRUBS THAT MUST BE REMOVED SHALL BE IDENTIFIED AND PERMISSION FOR REMOVAL SHALL BE OBTAINED FROM THE CONTRACT ADMINISTRATOR.

L. CONTRACTOR IS TO NOTIFY THE CITY OF ALL CONSTRUCTION ACTIVITIES A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

M. TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL CONFORM TO THE MOST CURRENT ONTARIO CONSTRUCTION REGULATIONS INCLUDING REGULATION No. 213 UNDER OHSA AND REFERENCE TO MTO TEMPORARY CONDITIONS MANUAL BOOK No. 7.

N. ALL EARTH GRADING TO OPSS 206.

O. EXCESS STOCKPILED OR UNSUITABLE MATERIALS TO BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFFSITE LOCATION IN ACCORDANCE WITH O.REG.406/19.

P. FOR THE DURATION OF THE CONTRACT. MATERIAL THAT BECOMES CONTAMINATED DUE TO CONTRACTOR'S ACTIVITY SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

4. ENTRANCE, DRIVE AISLES AND PARKING AREAS

A. ALL TOPSOIL MUST BE STRIPPED FROM LANEWAY AND PARKING AREAS PRIOR TO CONSTRUCTION.

B. CONTRACTOR TO REMOVE ALL TOPSOIL AND ORGANIC MATERIAL LOCATED BELOW EXISTING FILL MATERIAL WITHIN THE LANEWAY AND PARKING AREAS. BACKFILL TO BE APPROVED ENGINEERED FILL OR NATIVE MATERIAL COMPACTED TO 95% SPMDD. THE SUBGRADE SHOULD BE COMPACTED. PROOF ROLLED AND INSPECTED BY A GEOTECHNICAL ENGINEER.

C. GRANULAR 'B' SUBBASE TO BE PLACED IN 150mm MAXIMUM LOOSE LIFT AND COMPACTED TO 98% OF MATERIAL'S SPMDD.

D. GRANULAR 'A' BASES TO BE PLACED IN 150mm MAXIMUM LOOSE LIFT AND COMPACTED TO 100% OF MATERIAL'S SPMDD.

E. ALL ASPHALT MATERIAL AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 310.

F. PAVEMENT AND GRANULAR STRUCTURES SHALL BE AS PER PAVEMENT STRUCTURE TABLE ON DRAWING SG-1 AND GEOTECHNICAL RECOMMENDATIONS.

G. FROST TREATMENT FOR ALL STORM SEWERS IN ACCORDANCE WITH OPSD 803.030.

H. BOULDER TREATMENT TO OPSD 204.010.

I. TRANSITION TREATMENT FOR EARTH/ROCK CUT/FILL OPERATIONS TO OPSD 205.010, 205.020, 205.040, 205.050 ACCORDINGLY.

5. STORM SEWER

A. PIPE MATERIAL TO BE PVC SDR 35 CERTIFIED TO C.S.A. STANDARDS B182.2 AND B182.4 OR CONCRETE REINFORCED PIPE, CONFORMING TO CSA STANDARD A257.1 WITH A STRENGTH AS INDICATED ON THE DRAWINGS OR APPROVED EQUIVALENTS. WHERE SPECIFIED, HDPE STORM SEWER TO BE CORRUGATED DOUBLE WALL PIPE CONFORMING TO CSA B1 82.8 AND WITH MIN. 320 KPA PIPE STIFFNESS.

B. ALL PIPE HANDLING AND INSTALLATION MUST BE IN STRICT COMPLIANCE WITH MANUFACTURERS INSTALLATION GUIDES AND THE UNIBELL GUIDELINES.

C. MAXIMUM DEFLECTION FROM COMBINED LINE AND DEAD LOADING SHALL NOT EXCEED ANY C.S.A., O.P.S. OR MANUFACTURERS RECOMMENDED SPECIFICATIONS.

D. SINGLE CATCHBASINS TO BE 600 mm SQUARE PRECAST CONCRETE TO OPSD 705.010. FRAME AND GRATE TO CITY OF OTTAWA DETAIL S19. 900mm SUMP. CATCHBASIN MAINTENANCE HOLE TO BE 1200mm# PRECAST CONCRETE TO OPSD 701.010 FRAME AND GRATE TO CITY OF OTTAWA DETAIL S28.1 500mm SUMP.

E. STORM SEWER WITH LESS THAN 2.0M COVER TO PIPE CROWN REQUIRES INSULATION AS PER DETAIL ON DWG SG-1 OR APPROVED EQUIVALENT.

F. TESTING OF STORM SEWERS SHALL INCLUDE:

- -CCTV VIDEO INSPECTION
- -FLUSHING AND CLEANING

G. PIPE SUPPORT AT ALL STRUCTURES TO OPSD 708.020.

H. IF SEPARATION BETWEEN STORM SEWER AND OTHER STRUCTURES, PIPE OR UTILITIES IS LESS THAN 0.3m, INSTALL 50mm HI-60 INSULATION AS DIRECTED BY THE ENGINEER.

I. ALL RIP RAP SHALL CONFORM WITH OPSD 810.010.

J. WHERE THE SERVICE TRENCH IS BELOW THE GROUNDWATER TABLE, CLAY SEALS SHALL BE PLACED NO MORE THAN 60.0m APART. CLAY SEALS SHALL BE 1.5m LONG IN THE TRENCH DIRECTION AND SHALL EXTEND FROM TRENCH WALL TO TRENCH WALL. CLAY SEALS TO BE PLACED IN MAXIMUM 225mm LOOSE LIFTS AND COMPACTED TO 95% OF THE MATERIALS SPMDD. CLAY SEAL TO BE IN ACCORDANCE WITH CITY DETAIL S8.

6. UTILITIES

A. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY, ACTUAL LOCATION TO BE CONFIRMED BY CONTRACTOR.

B. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING LOCATES AND INFORMATION IN REGARD TO EXACT LOCATION OF BURIED UTILITIES AND INFRASTRUCTURE. THIS SHALL INCLUDE HYDRO VACUUM EXCAVATION IF NECESSARY. THE CONTRACTOR MUST EXERCISE NECESSARY CARE IN CONSTRUCTION OPERATIONS INCLUDING IF NECESSARY HAND DIGGING TO SAFEGUARD UTILITIES AND ALL OTHER BURIED INFRASTRUCTURE FROM DAMAGE. THE CONTRACTOR IS LIABLE FOR ALL DAMAGE TO UTILITIES AND ALL BURIED INFRASTRUCTURE OCCURRING WITHIN OR OUTSIDE THE CONTRACT LIMITS CAUSED BY HIS OPERATIONS.

C. ANY AREA OF POSSIBLE CONFLICTS WITH EXISTING UTILITIES SHALL BE EXCAVATED BY HAND PRIOR TO CONSTRUCTION.

D. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO UTILITY CORPORATIONS PRIOR TO CROSSING UTILITIES FOR THE PURPOSE OF INSPECTION BY THE CONCERNED CORPORATION. THIS INSPECTION WILL BE FOR THE DURATION OF CONSTRUCTION WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.

7. CONSTRUCTION DEWATERING

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING THAT MAY BE REQUIRED TO PRODUCE A DRY AND STABLE TRENCH FOR CONSTRUCTION OF THE WORKS. WORK TO BE IN ACCORDANCE WITH ONTARIO REGULATION 63/16, OPSS 518.

B. DURING NORMAL OPERATIONS, THE MAXIMUM VOLUME OF WATER TO BE DISCHARGED FROM THE DE-WATERING OPERATION ON A DAILY BASIS WITHOUT A MECP PERMIT TO TAKE WATER IS 400,000 L/DAY. FOR DE-WATERING BETWEEN 50,000L/DAY AND 400,000L/DAY THE CONTRACTOR IS REQUIRED TO REGISTER THE ACTIVITY ON THE EASR IN ACCORDANCE WITH O.REG. 63/16.

C. ALL WATER DISCHARGED FROM THE DEWATERING OPERATION SHALL BE DISCHARGED TO AN APPROVED OUTLET AS DETERMINED BY THE CONTRACT ADMINISTRATOR.

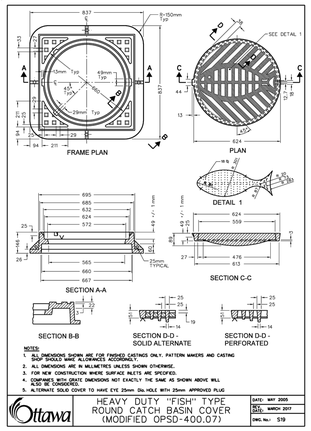
D. DEWATERING PUMPS SHALL DISCHARGE TO A GEOTEXTILE FILTER BAG LOCATED ON A GENTLY SLOPING GRASSED SURFACE TO THE APPROVED OUTLET.

E. WHERE REQUIRED, SUPPLEMENTARY SEDIMENT AND EROSION CONTROL WORKS, SUCH AS SILT FENCE AND STRAW BALE CHECK DAMS, SHALL BE INSTALLED DOWN GRADIENT OF THE FILTER BAGS TO ENSURE DISCHARGE WATER IS FREE OF SEDIMENT AND TO PREVENT EROSION.

F. TO MINIMIZE THE VOLUME OF WATER TO BE REMOVED FROM EXCAVATIONS, THE WORK AREA SHALL BE GRADED TO DIRECT SURFACE RUNOFF AROUND AND AWAY FROM OPEN EXCAVATIONS.

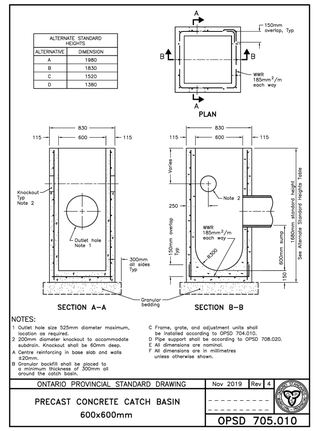
G. THE CONTRACTOR SHALL MEASURE AND RECORD, ON A DAILY BASIS, THE TOTAL VOLUME OF WATER DISCHARGED (L/DAY) AND THE AVERAGE DISCHARGE RATE (L/S). THE CONTRACTOR SHALL SUBMIT COPIES OF THE DEWATERING DISCHARGE FLOW RECORDS TO THE CONTRACT ADMINISTRATOR ON A WEEKLY BASIS OR UPON REQUEST. THE METHOD OF MEASURING THE VOLUME OF WATER DISCHARGED SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING DEWATERING OPERATIONS.

H. DEWATERING OPERATIONS ARE TO BE SUSPENDED DURING SEVERE STORM EVENTS.



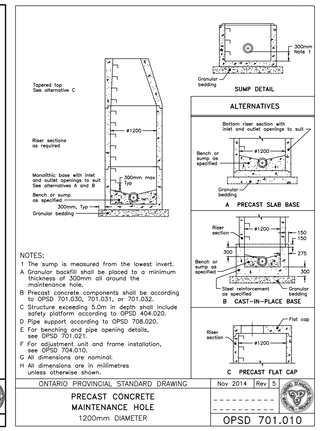
HEAVY DUTY "FISH" TYPE ROUND CATCH BASIN COVER (MODIFIED OPSD-400.07)

DATE: MAY 2005 | REV.: MARCH 2017 | DWG No.: S19



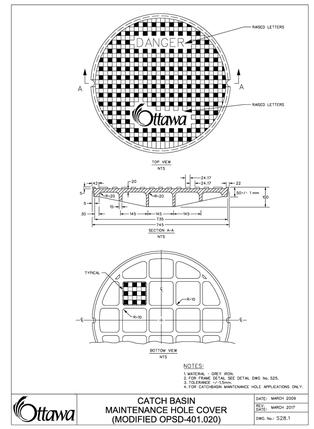
PRECAST CONCRETE CATCH BASIN 600x600mm

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 4 | OPSD 705.010



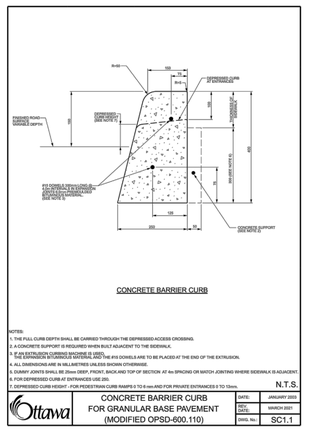
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 5 | OPSD 701.010



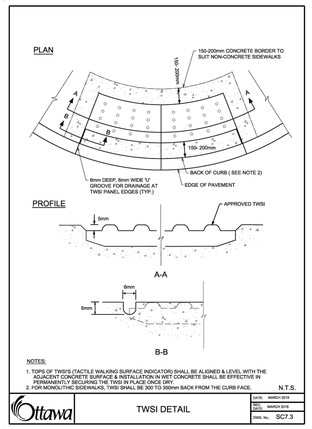
CATCH BASIN MAINTENANCE HOLE COVER (MODIFIED OPSD-401.020)

DATE: MARCH 2009 | REV.: MARCH 2017 | DWG No.: S28.1



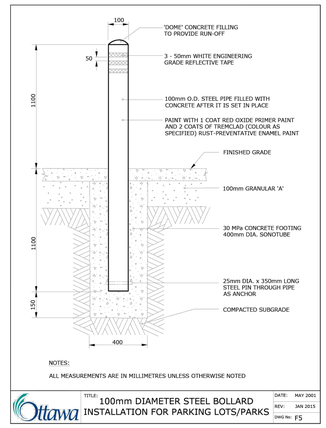
CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)

DATE: JANUARY 2003 | REV.: MARCH 2021 | DWG No.: SC1.1



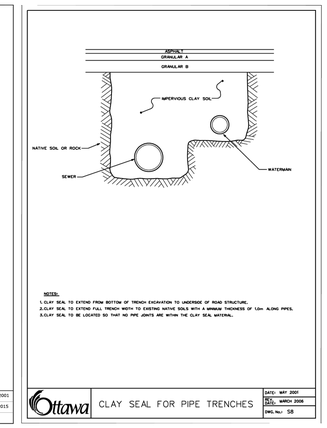
TWSI DETAIL

DATE: MARCH 2015 | REV.: MARCH 2016 | DWG No.: SC7.3



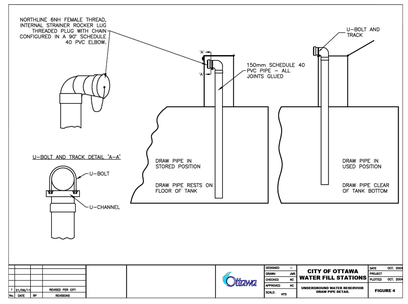
100mm DIAMETER STEEL BOLLARD INSTALLATION FOR PARKING LOTS/PARKS

DATE: MAY 2000 | REV.: JAN 2015 | DWG No.: F5

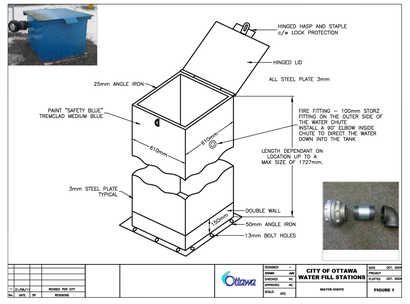


CLAY SEAL FOR PIPE TRENCHES

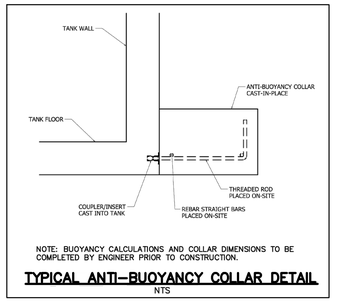
DATE: MAY 2007 | REV.: MARCH 2008 | DWG No.: S8



CITY OF OTTAWA WATER FILL STATIONS — UNDERGROUND WATER DISTRIBUTION DRAW PIPE DETAIL — FIGURE 4

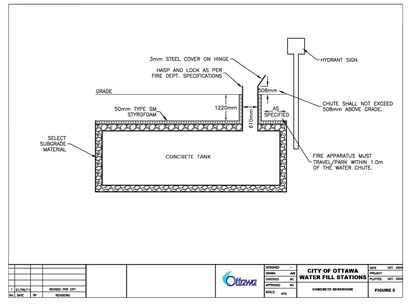


CITY OF OTTAWA WATER FILL STATIONS — WATER CHUTE — FIGURE 1

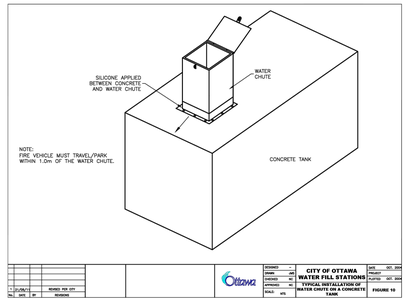


NOTE: BUOYANCY CALCULATIONS AND COLLAR DIMENSIONS TO BE COMPLETED BY ENGINEER PRIOR TO CONSTRUCTION.

TYPICAL ANTI-BUOYANCY COLLAR DETAIL
NTS



CITY OF OTTAWA WATER FILL STATIONS — CONCRETE RESERVOIR — FIGURE 8



CITY OF OTTAWA WATER FILL STATIONS — TYPICAL INSTALLATION OF WATER CHUTE ON CONCRETE TANK — FIGURE 10

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

No.	REVISION DESCRIPTION	DATE
2.	RE-ISSUED FOR SITE PLAN APPROVAL	JUL 2025
3.	RE-ISSUED FOR SITE PLAN APPROVAL	AUG 2025
4.	RE-ISSUED FOR SITE PLAN APPROVAL	APR 2026
5.	ISSUED FOR BUILDING PERMIT	JULY 2026
6.	RE-ISSUED FOR SITE PLAN APPROVAL	JULY 2026

ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER — J.R. ASH — 100123062 — July 31, 2026 — PROVINCE OF ONTARIO

1981 CENTURY RD. WEST
CITY OF OTTAWA
BRUNSTAD CHRISTIAN CHURCH OTTAWA

TATHAM ENGINEERING

NOTES AND DETAILS

DESIGN: HY	FILE: 523654	DWG: DET-1
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE:	

APPLICATION#

D07-12-25-0033

Drawing Name: 523654-DET01.dwg, Plotted: Jul 31, 2026