

No.	ISSUE / REVISION	DATE
2	RE-ISSUED FOR SPA PER CITY COMMENTS	2023/JAN/10
1	RE-ISSUED FOR SPA PER CITY COMMENTS	2022/OCT/17
0	ISSUED FOR SITE PLAN APPLICATION	2022/MAY/17

ELEVATION NOTE:
ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO GEODETIC DATUM CGVD-1928:1978. (SEE FSD FILE No. 531-20)

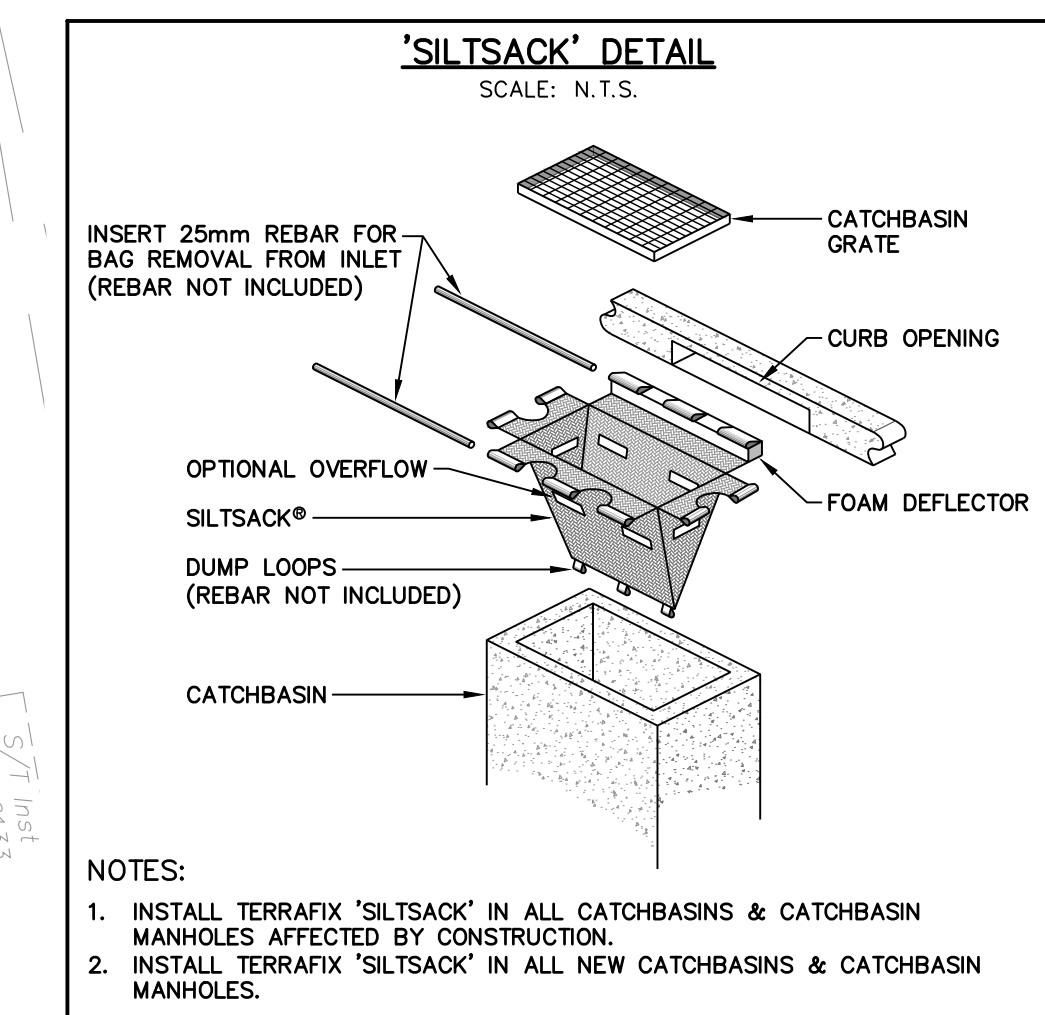
IT IS THE RESPONSIBILITY OF THE SER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

LOCAL BENCHMARK:
TOP SPINDLE OF FIRE HYDRANT LOCATED ON SOUTH SIDE OF COLONNADE ROAD, APPROXIMATELY 95.0m WEST OF PRINCE OF WHALES DRIVE.
ELEVATION = 85.19m

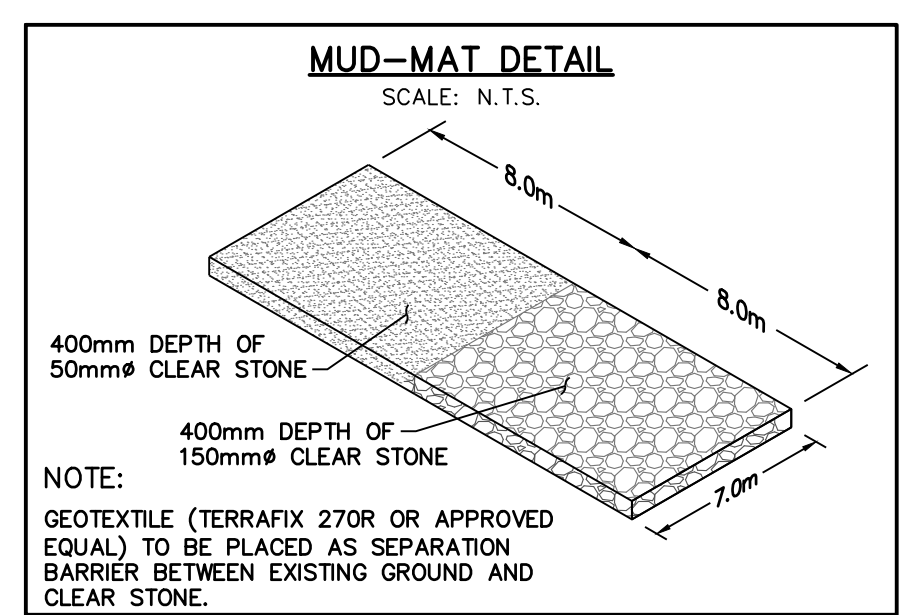
SURVEY NOTES:
SURVEY COMPLETED BY FARLEY, SMITH, & DENIS SURVEYING LTD. (2022/MAR/09)
FILE No.: 101-21
BEARINGS ARE GRID AND ARE REFERRED TO THE WESTERLY LIMIT OF PRINCE OF WHALES DRIVE HAVING A BEARING OF N 24° 04' 30" W, AS SHOWN ON PLAN 4R-18363.

SITE PLAN NOTES:
DESIGN ELEMENTS ARE BASED ON SITE PLAN BY ARCHITECTURE 49.
DRAWING No.: A0-2 WITH REVISION DATED (2022/SEP/23)
PROJECT No.: 219-00058-00

DRAWING NOTES:
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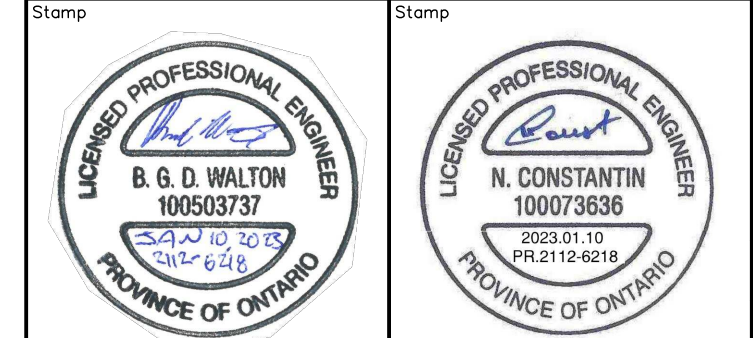
NOTES:
1. INSTALL TERRAFIX 'SILTSACK' IN ALL CATCHBASINS & CATCHBASIN MANHOLES AFFECTED BY CONSTRUCTION.
2. INSTALL TERRAFIX 'SILTSACK' IN ALL NEW CATCHBASINS & CATCHBASIN MANHOLES.



NOTE:
CONTRACTOR TO OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FOR PROPOSED WORKS IN MUNICIPAL ROAD ALLOWANCE

EROSION & SEDIMENT CONTROL NOTES:
1. EROSION & SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE WORKS.
2. EROSION & SEDIMENT CONTROLS MUST BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN FALL EVENT, AND MUST BE MAINTAINED AND REPAIRED IN A TIMELY MANNER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
3. IT IS REQUIRED TO STABILIZE ALL AREAS THAT WILL REMAIN DISTURBED FOR MORE THAN 30 DAYS.
4. MUD MAT AND SILT FENCE, AND ARE NOT TO BE REMOVED UNTIL COMPLETION OF CONSTRUCTION.

NOT FOR CONSTRUCTION



125 COLONNADE ROAD SOUTH
CITY OF OTTAWA

EROSION, REMOVALS AND SEDIMENT CONTROL PLAN

CROZIER CONSULTING ENGINEERS
2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA

Drawn: M.I.M. Design: B.P. Project No: 2112-6218
Check: B.W. Check: B.W. Scale: 1:500 Dwg: C101



D07-12-22-0095



ASPHALT LAP JOINT DETAIL
SCALE: N.T.S.

HEAVY DUTY PAVEMENT STRUCTURE
SCALE: N.T.S.

- 40mm SP 12.5
- 50mm SP 19.0
- 150mm GRANULAR 'A'
- 400mm GRANULAR 'B'
- 640mm TOTAL
- COMPACTED SUB-BASE (ALL TOPSOIL REMOVED)

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- EXISTING DITCH
- EXISTING FENCE
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED GRADE (TO MATCH EXISTING)
- PROPOSED MINOR FLOW DIRECTION
- PROPOSED GRASSED SWALE
- PROPOSED SLOPE (3:1 MAX.)
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- PROPOSED RETAINING WALL
- PROPOSED CONSTRUCTION LIMITS

NOTE: SAWCUT & COLD PLANE 300mm WIDE & 40mm DEEP WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT, GROUT & SEAL WITH HOT RUBBERIZED ASPHALT.

NOTE: REFER TO CONSTRUCTION NOTES FOR DETAILS ON COMPACTION, PAVEMENT STRUCTURE PER THE WSP GEOTECHNICAL REPORT (MAY 2022)

NOTE: UNDERSIDE OF FOOTING (USF) TO BE CONFIRMED WITH PROJECT STRUCTURAL ENGINEER. STRUCTURAL ENGINEER TO NOTIFY C.F. CROZIER AND ASSOCIATES OF ANY CHANGES TO THE USF FOR EACH BUILDING.

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ELEVATION = 85.19m

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Project
125 COLONNADE ROAD SOUTH
CITY OF OTTAWA

Drawing
SITE GRADING PLAN

NOT FOR CONSTRUCTION

Stamp
LICENSED PROFESSIONAL ENGINEER
B. G. D. WALTON
100503737
PROVINCE OF ONTARIO

Stamp
LICENSED PROFESSIONAL ENGINEER
N. CONSTANTIN
100073636
PROVINCE OF ONTARIO

Stamp
CROZIER CONSULTING ENGINEERS
2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905-875-0026 T
905-875-4915 F
WWW.CFCROZIER.CA

Drawn
M.I.M.

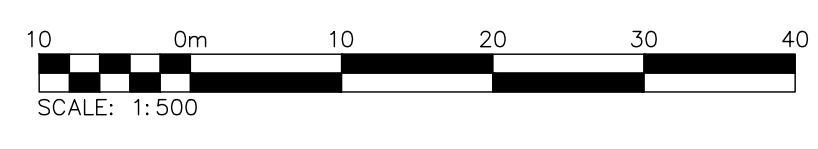
Design
B.P.

Project No.
2112-6218

Check
B.W.

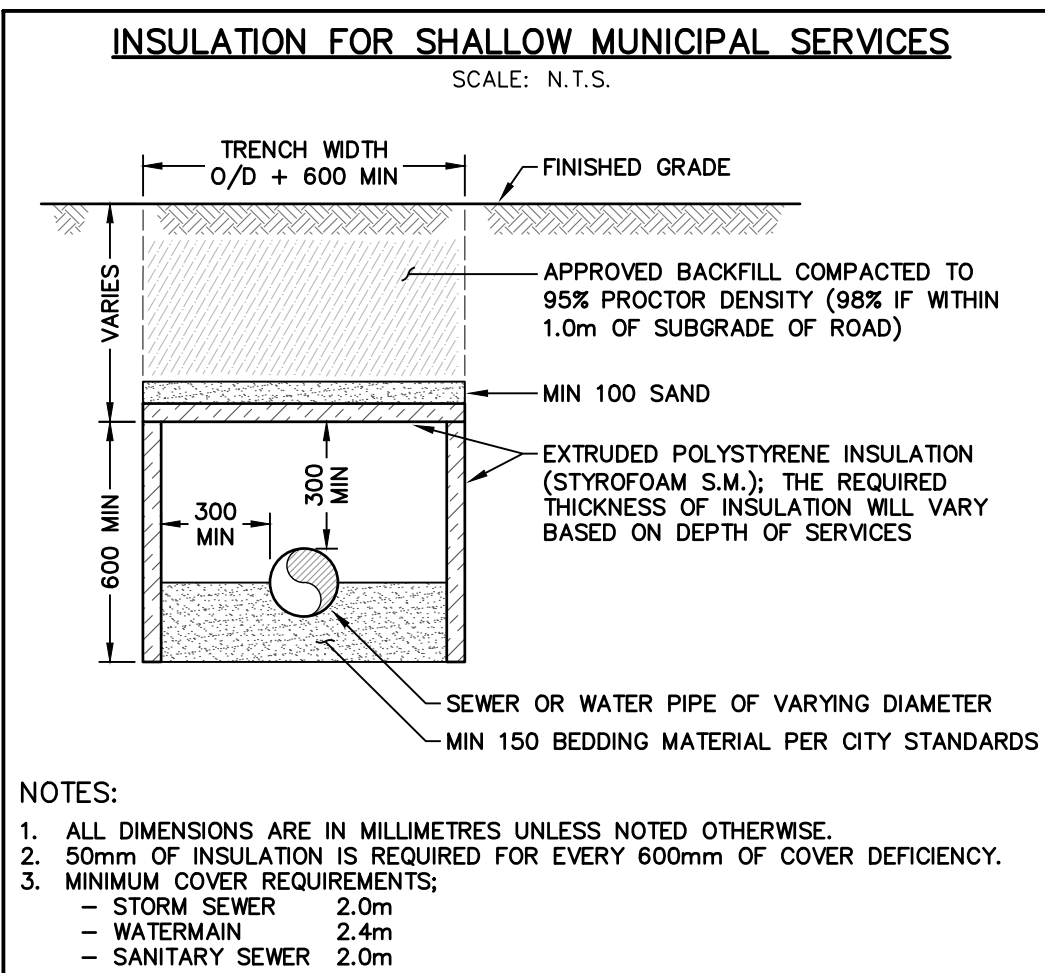
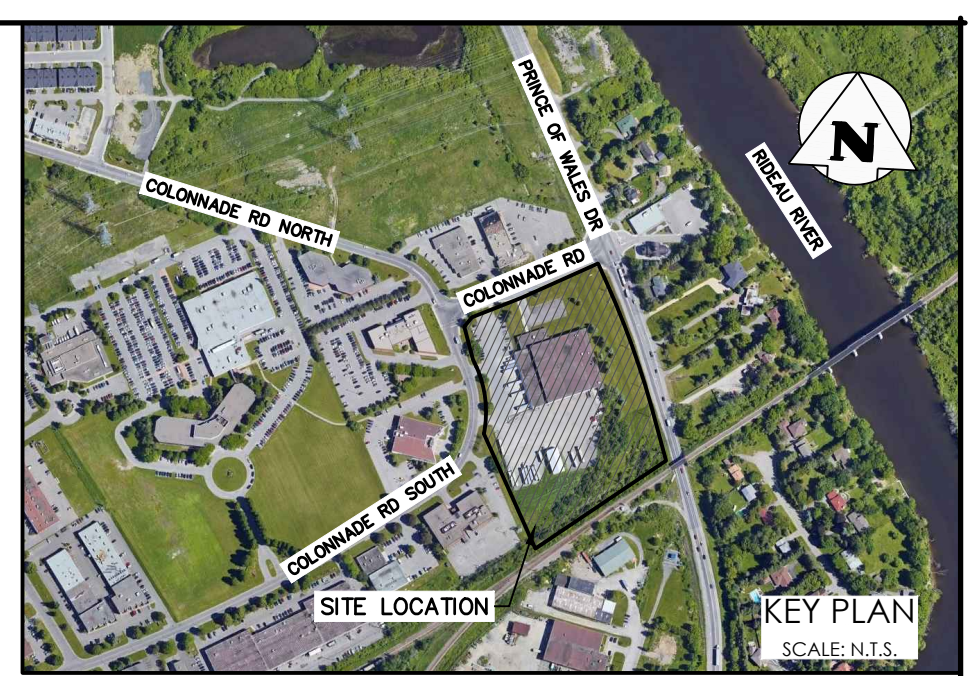
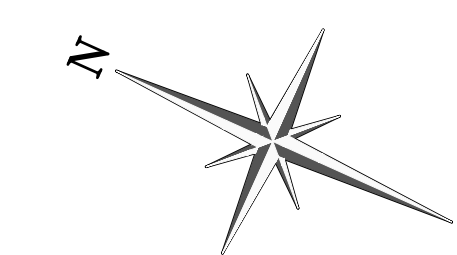
Scale
1:500

Dwg.
C102



D07-12-22-0095

#18809



LEGEND

- PROPERTY LINE
- EXISTING WATERMAIN & GATE VALVE
- EXISTING STORM SEWER & MANHOLE
- EXISTING SINGLE / DOUBLE CATCHBASIN
- EXISTING SANITARY SEWER & MANHOLE
- PROPOSED WATERMAIN & GATE VALVE
- PROPOSED FIRE HYDRANT & GATE VALVE
- PROPOSED SIAMESE CONNECTION
- PROPOSED WATER METER
- PROPOSED BACKFLOW PREVENTOR
- PROPOSED STORM SEWER & MANHOLE
- PROPOSED SINGLE / DOUBLE CATCHBASIN
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED CONSTRUCTION LIMITS

CROSSING TABLE

CROSSING I.D.	UPPER	LOWER
C1	EX STM INV 83.56±	W/M OBV 83.26
C2	EX W/M INV 83.09±	SAN OBV 82.50
C3	EX STM INV 83.57±	SAN OBV 82.52
C4	STM INV 83.97	W/M OBV 83.47
C5	STM INV 83.96	SAN OBV 83.35
C6	SAN INV 83.54	W/M OBV 83.04
C7	STM INV 84.16	W/M OBV 83.66
C8	STM INV 84.13	SAN OBV 83.73
C9	STM INV 83.97	SAN OBV 83.67
C10	STM INV 83.96	W/M OBV 83.04

NOTE:

- CONTRACTOR TO ENSURE A MINIMUM 0.50m VERTICAL SEPARATION BETWEEN THE WATERMAIN AND ALL SEWER CROSSINGS DURING CONSTRUCTION. IN CASE OF CONFLICT BETWEEN SEWERS AND WATERMAIN, CONTRACTOR TO LOWER THE WATERMAIN CROSSING THE SEWER, ENSURING THE MINIMUM 0.50m VERTICAL CLEARANCE.
- TRENCH DRAIN INVERTS AND ROOF DRAINS/DOWNSPOUTS PER MECHANICAL DESIGN AND SPECIFICATIONS.
- CONTRACTOR TO VERIFY EXISTING WATERMAIN, SANITARY AND STORM SEWER LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. DAYLIGHT THESE SERVICES TO VERIFY CROSSINGS.

NOTE:

- BUILDING "A"
THIRTEEN (13) ROOF DRAINS REQUIRED. ALL DRAINS TO BE ZURN MODEL ZCF121-1W-X1-2-105-10-77 OR CERTIFIED EQUIVALENT. THE DRAINS ARE TO BE INSTALLED WITH TWO NOTCHES OPEN AND AN OVERALL RELEASE RATE OF 29.8 L/s/m OF HEAD.
- BUILDING "B"
TWELVE (12) ROOF DRAINS REQUIRED. ALL DRAINS TO BE ZURN MODEL ZCF121-1W-X1-2-105-10-77 OR CERTIFIED EQUIVALENT. THE DRAINS ARE TO BE INSTALLED WITH TWO NOTCHES OPEN AND AN OVERALL RELEASE RATE OF 29.8 L/s/m OF HEAD.

* FOR ROOFTOP PONDING VOLUME CALCULATIONS AND CONTROLLED ROOFTOP RELEASE RATE CALCULATIONS SEE DWG. C104.

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125 COLONNADE ROAD SOUTH
CITY OF OTTAWA

SITE SERVICING PLAN

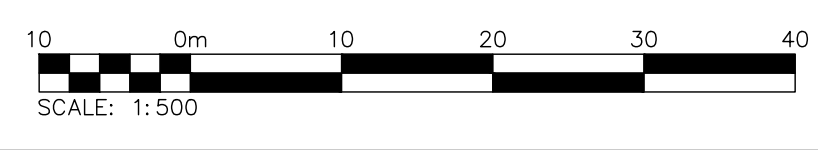
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Stamp: B. G. D. WALTON 100503737 PROVINCE OF ONTARIO

Stamp: N. CONSTANTIN 100073636 PROVINCE OF ONTARIO

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2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA

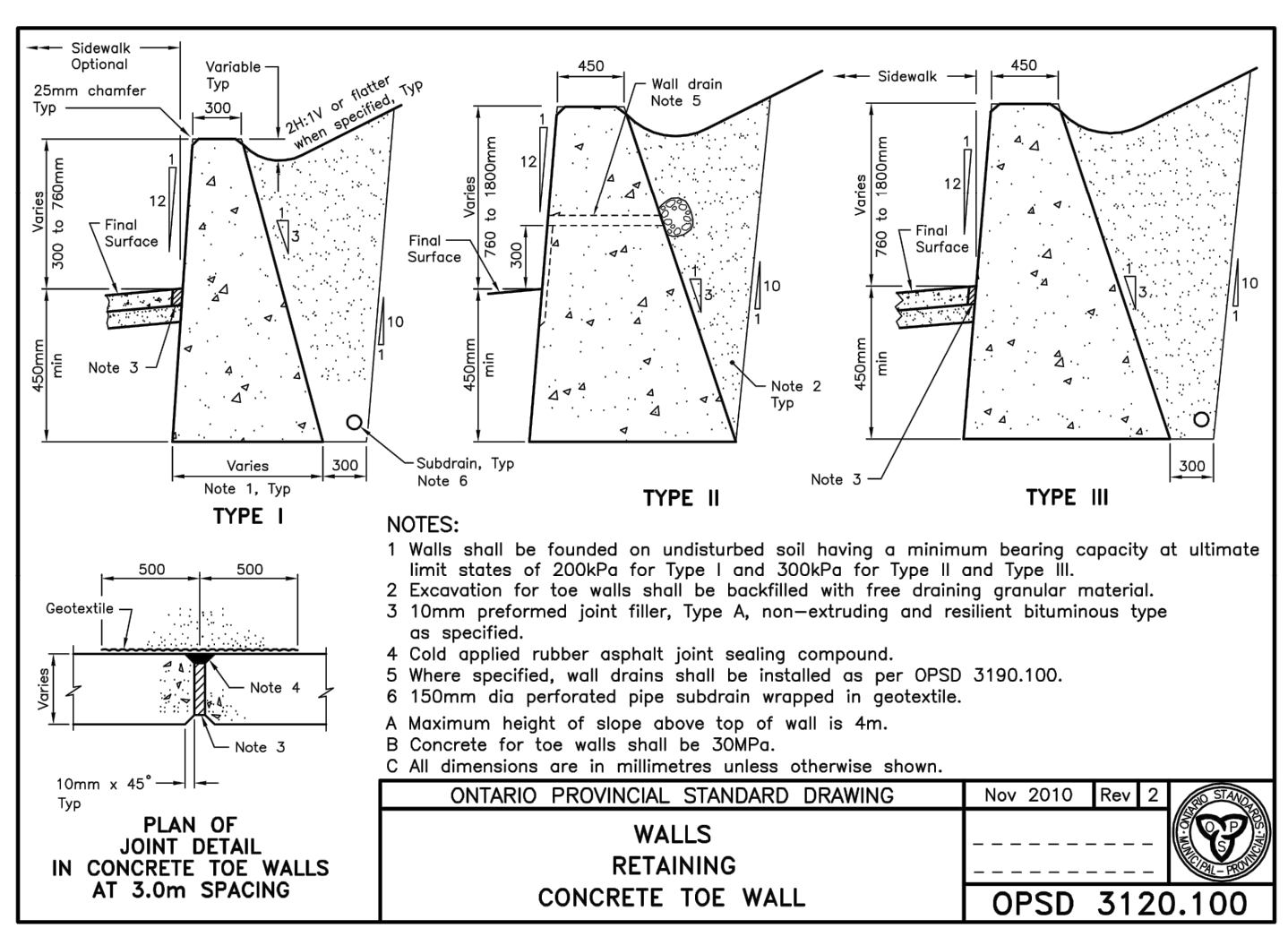
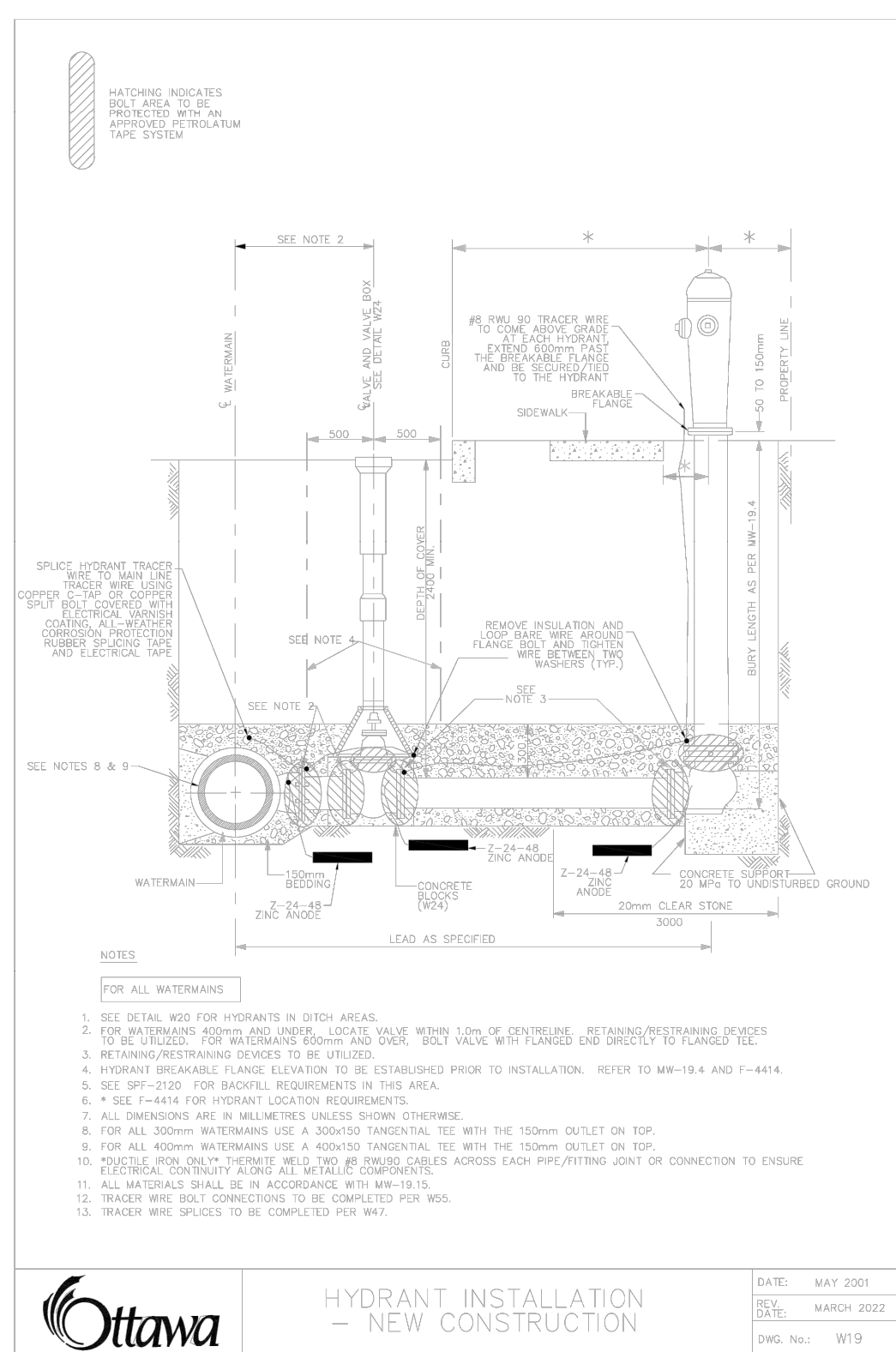
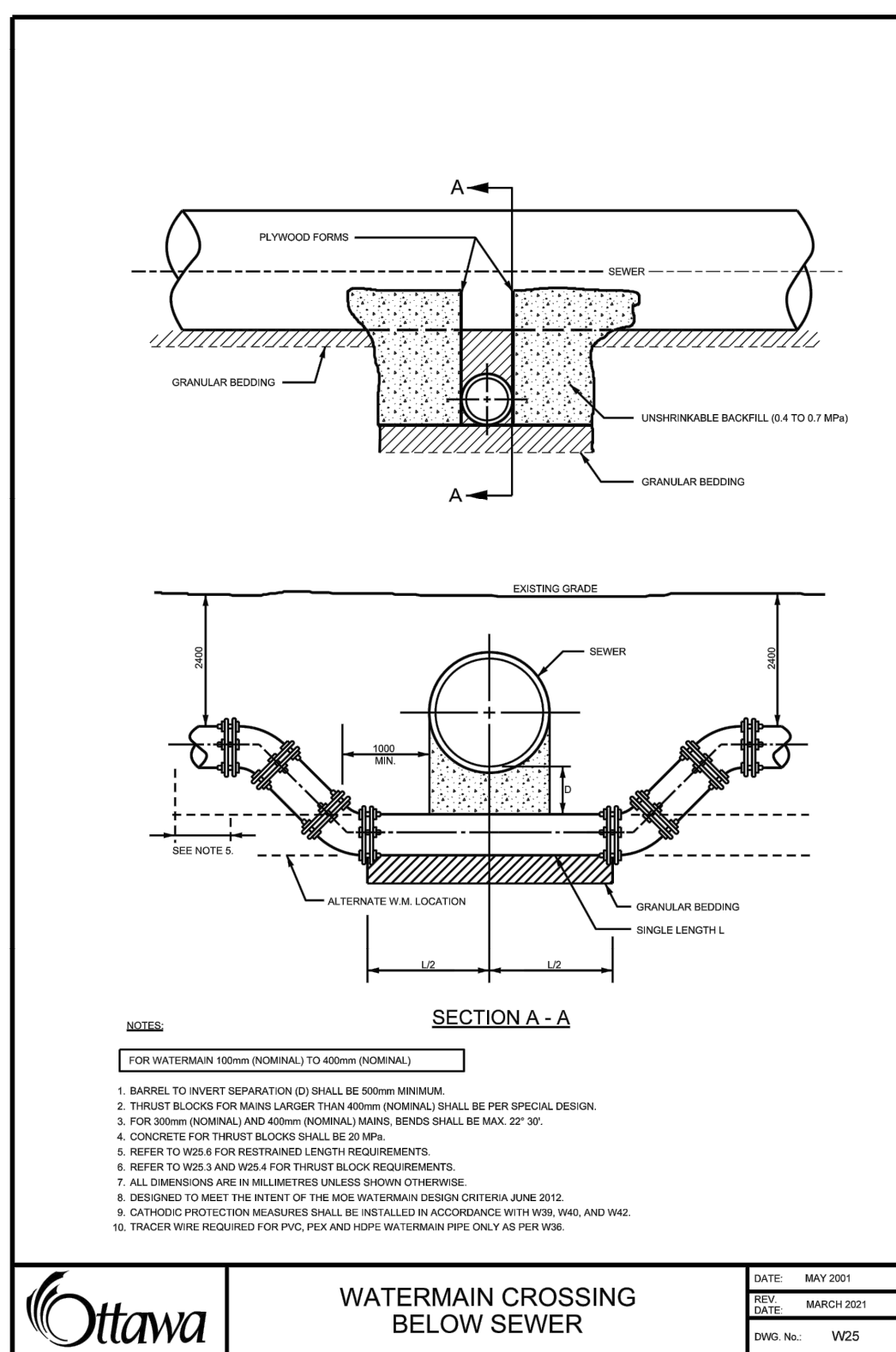
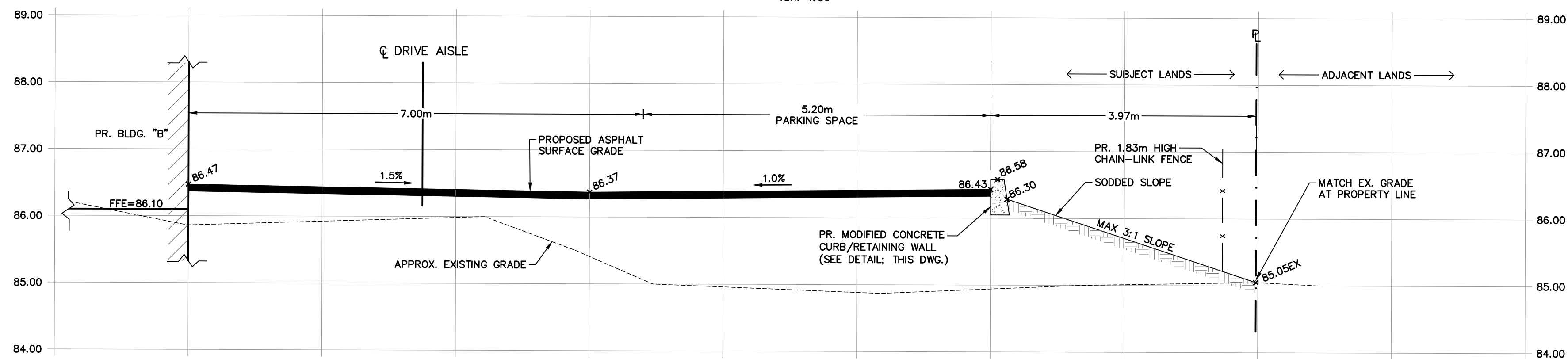
Drawn	M.I.M.	Design	B.P.	Project No.	2112-6218	
Check	B.W.	Check	B.W.	Scale	1:500	
					Dwg. No.	C103



D07-12-22-0095

SECTION A-A

SCALE: HOR: 1:50
VER: 1:50



ROOFTOP PONDING CALCULATIONS

ROOFTOP PONDING VOLUME CALCULATIONS

Roof Name	Roof Area (ha)	Roof Area Per Drain (ha)	Drain Ponding Area (ha)	Max. Allowable Rooftop Ponding Depth (m)	Max. Rooftop Ponding Volume per Drain (m³)	Max. Rooftop Ponding Volume Available (m³)	Max. Rooftop Ponding Volume Required (m³)
BLDG A (3 storey)	0.27	0.03	0.02	0.15	10.7	85.5	-
BLDG A (2 storey)	0.05	0.02	0.01	0.15	0.8	20.6	-
BLDG A (total)	0.32	-	-	0.15	-	106.2	100
BLDG B	0.37	0.03	0.02	0.15	2.6	124.9	123

Note: Maximum required rooftop ponding per VO Model prepared by Crozier.

ZURN ROOF DRAIN FLOW RATING

Opening	G.P.M. Per Inch of Head	L.P.M. Per Inch of Head	L/s Per Meter of Head	L/s Per 0.05 m of Head	L/s Per 0.10 m of Head	L/s Per 0.15 m of Head
X ₁	5.00	22.73	14.91	0.75	1.49	2.24
X ₂	3.75	17.05	11.19	0.56	1.12	1.68
X ₃	2.50	11.37	7.46	0.37	0.75	1.12
X ₄	1.25	5.68	3.73	0.19	0.37	0.56

Note: Zurn control flow rates obtained from Drawing No. P-13521 - Adjustable Weir for Sloped-Roof "Control-Flo" Roof Drain

CONTROLLED ROOFTOP RELEASE RATE CALCULATIONS

Roof Name	Control System	Zurn Model Number	Release Rate per Drain (L/s per meter of head)	Proposed # of Zurn Drains	# of Notches per Zurn Drain	Total Release Rate from Roof (L/s)
BLDG A (3 storey)	Zurn Roof Drain	ZCF121-1W-X1-Z-105-10-77	14.92	10	2	44.7
BLDG A (2 storey)	Zurn Roof Drain	ZCF121-1W-X1-Z-105-10-77	14.92	3	2	13.4
BLDG A (total)	Zurn Roof Drain	ZCF121-1W-X1-Z-105-10-77	14.92	13	2	58.2
BLDG B	Zurn Roof Drain	ZCF121-1W-X1-Z-105-10-77	14.92	12	2	53.7

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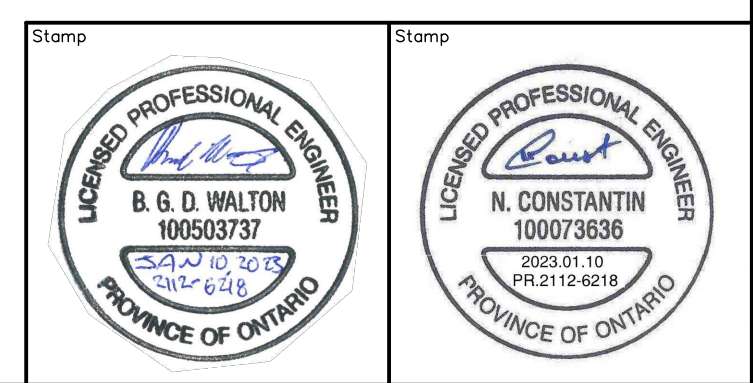
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125 COLONNADE ROAD SOUTH
CITY OF OTTAWA

Drawing
CONSTRUCTION DETAILS

NOT FOR CONSTRUCTION

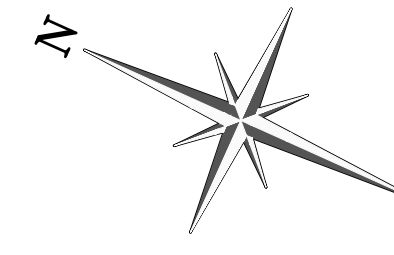


CROZIER CONSULTING ENGINEERS

2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905-875-0026 T
905-875-4915 F
WWW.CFCROZIER.CA

Drawn	M.I.M.	Design	B.P.	Project No.	2112-6218	
Check	B.W.	Check	B.W.	Scale	N.T.S.	
					Dwg. No.	C104

D07-12-22-0095



LEGEND

- PROPERTY LINE
- EXISTING DITCH
- EXISTING GRADE
- EXISTING OVERLAND FLOW DIRECTION
- STORM DRAINAGE CATCHMENT
- CATCHMENT I.D.
AREA (ha) | PERCENT IMPERVIOUS (%)

103
1.7157

102
0.79 | 0

101
0.98 | 78

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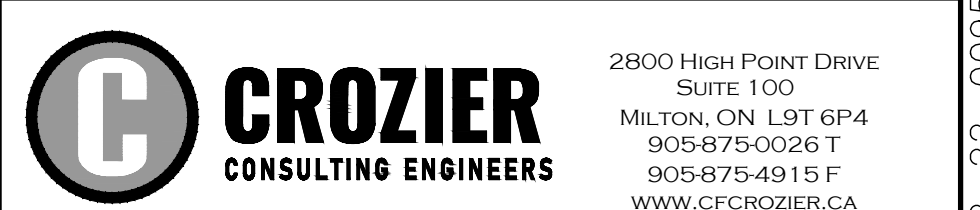
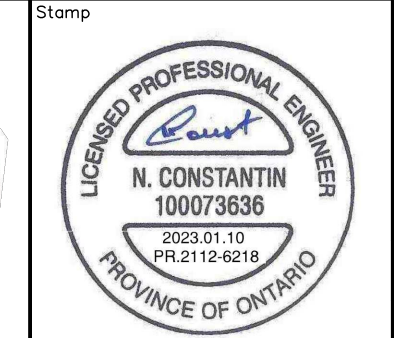
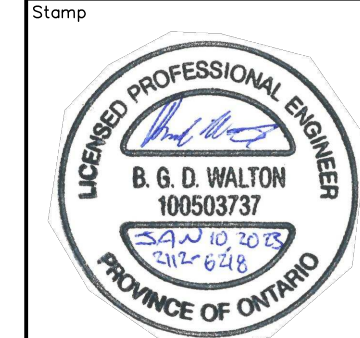
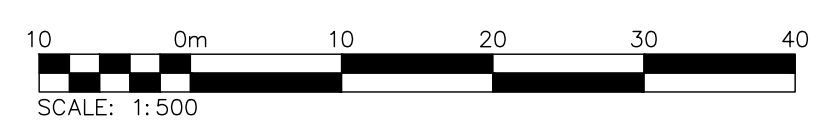
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Project
125 COLONNADE ROAD SOUTH
CITY OF OTTAWA

Drawing
PRE-DEVELOPMENT DRAINAGE PLAN

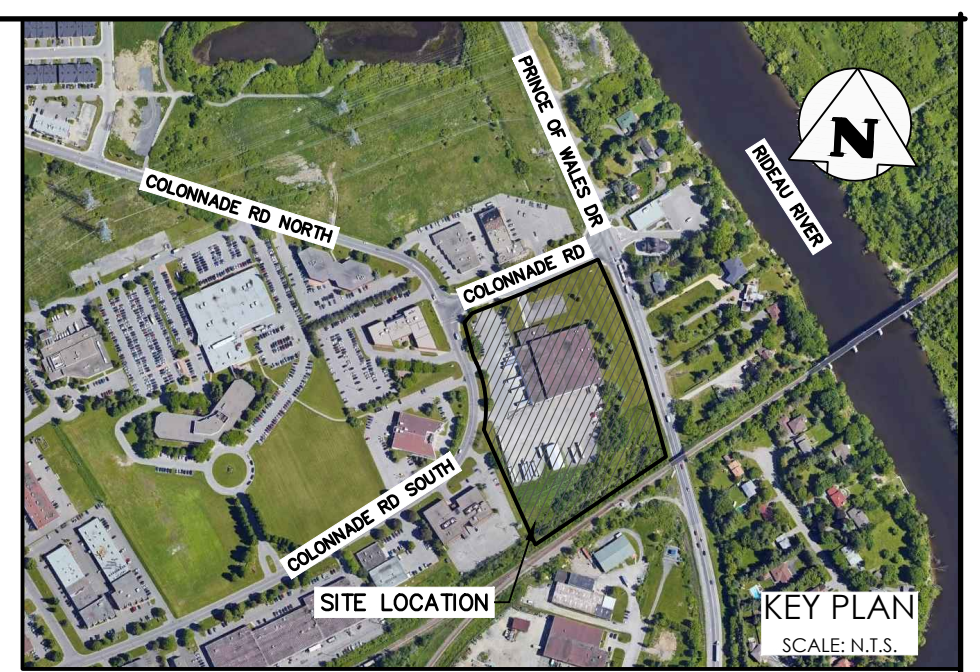
NOT FOR CONSTRUCTION



Drawn	M.I.M.	Design	B.P.	Project No.	2112-6218
Check	B.W.	Check	B.W.	Scale	1:500
				Dwg.	FIG 1

D07-12-22-0095

#18809



NOTE:
 BUILDING "A"
 THIRTEEN (13) ROOF DRAINS REQUIRED. ALL DRAINS TO BE ZURN MODEL ZCF121-1W-X1-2-105-10-77 OR CERTIFIED EQUIVALENT. THE DRAINS ARE TO BE INSTALLED WITH TWO NOTCHES OPEN AND AN OVERALL RELEASE RATE OF 29.8 L/s/m OF HEAD.
 BUILDING "B"
 TWELVE (12) ROOF DRAINS REQUIRED. ALL DRAINS TO BE ZURN MODEL ZCF121-1W-X1-2-105-10-77 OR CERTIFIED EQUIVALENT. THE DRAINS ARE TO BE INSTALLED WITH TWO NOTCHES OPEN AND AN OVERALL RELEASE RATE OF 29.8 L/s/m OF HEAD.
 * FOR ROOFTOP PONDING VOLUME CALCULATIONS AND CONTROLLED ROOFTOP RELEASE RATE CALCULATIONS SEE DWG. C104.

LEGEND

- PROPERTY LINE
- EXISTING DITCH
- EXISTING GRADE
- EXISTING MAJOR OVERLAND FLOW DIRECTION
- PROPOSED MAJOR OVERLAND FLOW DIRECTION
- STORM DRAINAGE CATCHMENT
- CATCHMENT I.D.
- AREA (ha) | PERCENT IMPERVIOUS (%)

2	RE-ISSUED FOR SPA PER CITY COMMENTS	2023/JAN/10
1	RE-ISSUED FOR SPA PER CITY COMMENTS	2022/OCT/17
0	ISSUED FOR SITE PLAN APPLICATION	2022/MAY/17
No.	ISSUE / REVISION	YYYY/MM/DD

ELEVATION NOTE:
 ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO GEODETIC DATUM CGVD-1928:1978. (SEE FSD FILE No. 531-20)
 IT IS THE RESPONSIBILITY OF THE SER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

LOCAL BENCHMARK:
 TOP SPINDLE OF FIRE HYDRANT LOCATED ON SOUTH SIDE OF COLONNADE ROAD, APPROXIMATELY 95.0m WEST OF PRINCE OF WALES DRIVE.
 ELEVATION = 85.19m

SURVEY NOTES:
 SURVEY COMPLETED BY FARLEY, SMITH, & DENIS SURVEYING LTD. (2022/MAR/09)
 FILE No.: 101-21
 BEARINGS ARE GRID AND ARE REFERRED TO THE WESTERLY LIMIT OF PRINCE OF WALES DRIVE HAVING A BEARING OF N 24° 04' 30" W, AS SHOWN ON PLAN 4R-1836.3.

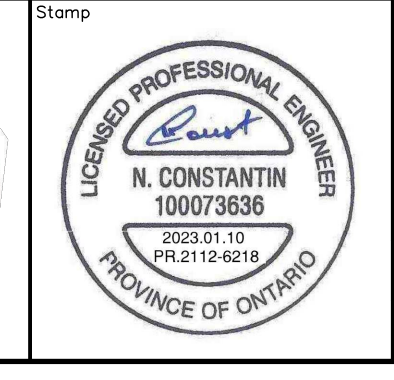
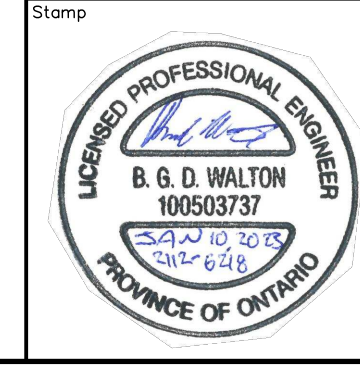
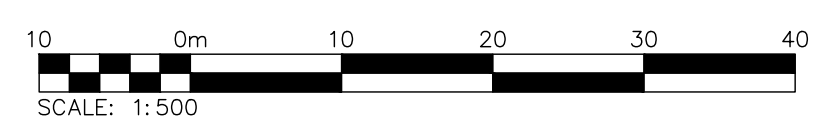
SITE PLAN NOTES:
 DESIGN ELEMENTS ARE BASED ON SITE PLAN BY ARCHITECTURE 49.
 DRAWING No.: A0.2 WITH REVISION DATED (2022/SEP/23)
 PROJECT No.: 219-00058-00

DRAWING NOTES:
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 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.
 THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.
 ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

Project
125 COLONNADE ROAD SOUTH
 CITY OF OTTAWA

Drawing
POST-DEVELOPMENT DRAINAGE PLAN

NOT FOR CONSTRUCTION



CROZIER CONSULTING ENGINEERS
 2800 HIGH POINT DRIVE SUITE 100
 MILTON, ON L9T 6P4
 905-875-0026 T
 905-875-4915 F
 WWW.CFCROZIER.CA

Drawn	M.L.M.	Design	B.P.	Project No.	2112-6218
Check	B.W.	Check	B.W.	Scale	1:500
					Dwg. FIG 2

D07-12-22-0095

#18809